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ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR

THE YEAR 1887.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1888.

ANNUAL REPORT
OF THE
COMMISSIONER OF PATENTS
TO CONGRESS,
FOR THE YEAR ENDING DECEMBER 31, 1887.

Laid before the House of Representatives by the Speaker *pro tempore*, January 31, 1888, referred to the Committee on Patents, and ordered to be printed.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., January 31, 1888.

*To the Senate and House of Representatives of the
United States of America in Congress assembled:*

It is provided by section 494 of the Revised Statutes that—

The Commissioner of Patents shall lay before Congress in the month of January, annually, a report giving a detailed statement of all moneys received for patents, for copies of records or drawings, or from any other source whatever; a detailed statement of all expenditures for contingent and miscellaneous expenses; a list of all patents which were granted during the preceding year, designating under proper heads the subjects of such patents; an alphabetical list of all the patentees, with their places of residence; a list of all patents which have been extended during the year, and such other information of the condition of the Patent Office as may be useful to Congress or the public.

It will best subserve the purposes of this requirement to present the subject in a somewhat different order from that prescribed. The receipts and expenditures, the number of patents, &c., can be best shown and illustrated by schedules and tabular statements, which will be set forth at the close of this report.

There are certain subjects which I regard as of paramount importance, to which the attention of Congress should be directed in order that appropriate legislation may be enacted with a view to improving the law applicable to patent property and the condition of the Patent Office for the commodious and expeditious transaction of the public business.

ROOM IN THE PATENT OFFICE.

For several years past the annual reports of my predecessors have called the attention of Congress to the utter inadequacy of room and facilities for conducting the business of the Patent Office. This building, I am advised, was constructed from the fund of the Patent Office, a fund which was not raised by taxation upon the people, but was an accumulation from fees paid in by the inventors of the country, and it may not be inappropriate to say that the inventors themselves, as well as their representatives, attorneys, and others, are properly insisting upon the idea that this building ought to be at least so far devoted to the business of the Patent Office that ample room will be provided for its conduct, and facilities afforded which will secure the consideration of applications for patents and the issuance of the same without

unnecessary delay, expense, or inconvenience. But the building is now occupied by the Secretary of the Interior, the Commissioner of the General Land Office, the Commissioner of Indian Affairs, and the Commissioner of Patents. The result is, owing to the increase in business of the Government in all of these various branches, that neither the Secretary of the Interior, the Commissioner of the General Land Office, the Commissioner of Indian Affairs, nor the Commissioner of Patents has sufficient room to conduct the business of his bureau with the dispatch and promptness which the public is entitled to expect. The various divisions of the Patent Office are crowded into narrow, inconvenient, and, in many instances, unhealthy limits. The records and drawings and other material, which should be conveniently arranged and made accessible in proper rooms, are stored in corridors and by-way places, where classification is almost impossible, and where access can only be had to the particular subjects desired after long search and delay. Not only this, but great quantities of valuable records, descriptions, specifications, and drawings are constantly exposed to the danger of conflagrations involving the safety of the entire building. It needs only an examination or investigation to demonstrate the absolute necessity that exists for making some change in the arrangements between the bureaus occupying this building in order that each shall have proper room and facilities to discharge its respective functions. The force under the control of the Commissioner of Patents is scattered and located in remote parts of the building on different floors to such an extent that in order to communicate with the various divisions, transfer records back and forth, and conduct the business much more time and a greater amount of labor are required than would otherwise be involved. If some arrangement could be made by which the force could be located conveniently and compactly, in my judgment almost if not quite enough could be saved in the curtailment of expenses and saving of time to provide for the rental of another building which would meet the demands of either one of the other bureaus mentioned.

The Commissioner of Patents is not possessed of sufficient information to suggest what arrangement should be made, or whether it would be advisable for

the Government to rent other buildings in which to locate any one of the bureaus, or whether such bureau should be transferred to some other of the public buildings; but the fact is pointed out that the Commissioner of Patents ought at least to be furnished in a building constructed out of the patent fund with sufficient room to conduct the business of the Patent Office conveniently, expeditiously, and without delay to its patrons.

I most urgently call the attention of Congress to this subject and request consideration.

OFFICIAL GAZETTE.

Under the present statute the Patent Office publishes 6,500 copies of the OFFICIAL GAZETTE, of which 2,319 copies are sold and delivered upon subscription at the price of \$5 per year. Under the provisions of the act of May 18, 1872, 3,235 copies are distributed to public libraries, members of Congress, and public officers. This publication is one of the most useful and complete of the kind which has ever been published. Its usefulness and importance are well known to Congress, and need not be dwelt upon. It will not be inappropriate, however, to call attention to the mechanical features of the publication, the requirements involved for photolithography, and the method of printing the same. This work contains an illustrated and defined history of art, so far as covered by patents, in the United States from the time of its first publication down to the present day. As is well known, the drawings which accompany every application for a patent are necessarily required to be reproduced and made a part of the patent itself when it is issued. Under the present system this photolithographic copy of the drawing, reduced in size, is published by the Office to meet a demand for copies coming from all parts of the United States and from foreign countries. It is not within my power at present to state the number of copies of patents, specifications, and drawings which are called for; but the demand is great, and the charges made for these copies furnish an important source of revenue to the Office. In order to meet this demand it is necessary, as just stated, that the drawing be reproduced of a size requisite to be made a part of the patent and to be conveniently sent to persons requiring copies. This involves the necessity of employing photolithography. It may not be generally known that the OFFICIAL GAZETTE, excepting the front and closing pages, containing opinions and decisions of the courts and the Commissioner and the index, is a purely photolithographic production. The pages containing the drawings and the claims in type are photolithographed.

For several years Congress has appropriated about one hundred and thirty thousand dollars per year to provide for the production of copies of patents, designs, trade-marks, pending applications, and for the reproduction of exhausted copies. This photolithographing is required by statute to be done by contract. On several occasions experiments have been made to have this work done elsewhere than in the city of Washington, but in every instance of which I am aware the experiment proved a failure, the work either not being up to the required standard of excellence or being so delayed as to practically interfere with the work of the Office and prevent the prompt

issuing of patents. The inconvenience attending these experiments has been so serious that for several years Congress has inserted in the appropriation bills the requirement found in the act approved March 3, 1885, as follows:

Said photolithographing or otherwise producing plates and copies referred to in this and the two preceding paragraphs to be done under the supervision of the Commissioner of Patents, and in the city of Washington, if it can be there done at reasonable rates; and the Commissioner of Patents, under the direction of the Secretary of the Interior, shall be authorized to make contracts therefor.

The contracts entered into for the performance of this work have generally been made to run from the beginning to the expiration of the fiscal year. Prior to the 30th of June, 1887, the present Commissioner directed an inquiry to be made, and sent an agent to the principal Eastern cities to ascertain at what rates work of this character could be done in those cities, and received what is believed to be entirely reliable and satisfactory information that the rates fixed by the present contract for doing this work are below those which would be demanded elsewhere.

To explain in greater detail the usefulness and manner of conducting this photolithographic work, I quote from the report of my immediate predecessor:

Under the practice which now obtains in this Office, on Friday morning of each week preparations are begun for the patenting of all applications which have been allowed and in which the final Government fee has been paid during the week next preceding. To secure a proper reproduction of such cases, it is necessary that the original drawings be transmitted to the Office where the work of photolithographing is performed. On each Friday morning the drawings which are ready are sent to the photolithographer, where the proof-sheets are prepared. At noon of the same day these are returned to this Office and another lot of drawings taken. About four o'clock of the same day proof-sheets of these last-mentioned drawings are returned, and other drawings again taken; and so this work of photolithographing continues day by day. Upon the return of the proof-sheets to this Office careful comparison with the original drawing must be made by the employés here, and imperfect sheets (which amount to about five per cent. of the whole) must be corrected and returned without delay.

From the fact that the original drawings must be sent to the photolithographer for reproduction, and when it is considered that these drawings constitute the only illustrated record in the Patent Office of the inventions involved—as under the present rules of the Office models are dispensed with—it is apparent that any loss or damage thereto would not only greatly embarrass the Office, but result in serious injury to inventors. Doubtless, in view of these considerations, a requirement was inserted in the present contract that the original drawings and corrected proofs must be returned to the Patent Office within one and one-half day from the delivery to the contractor of such original drawings.

It is not absolutely impracticable that the work of preparing the OFFICIAL GAZETTE be performed elsewhere than in the city, provided the place be not too remote. This undoubtedly would be attended at times with series inconvenience. For manifest reasons, however, the work of preparing the current issues of patents must be done in this city, and the proper reproduction elsewhere is simply impracticable, if not impossible. Inasmuch as proof-sheets of the photolithographs of the current issues are used in the preparation of the OFFICIAL GAZETTE, it need hardly be said that this work entire can probably be more cheaply performed by one firm than by several independent firms or contractors.

I have no doubt that all this work should and will in time be done by the Patent Office itself. It should not be dependent upon contractors. When the patent system is revised, corrected, and improved, as it probably should and doubtless will be in the not distant future, this important subject will be at least carefully considered.

The appropriation of Congress for the present fiscal year was—

For OFFICIAL GAZETTE.....	\$44,000
For copies of patents, designs, trade-marks, exhausted copies, &c.....	90,000

LABORATORY.

The attention of Congress has been in former reports of the Commissioners of Patents repeatedly called to the need in this bureau of a laboratory containing the necessary apparatus for testing inventions relating to electricity, and to conduct experiments pertaining to processes and products involving chemical results. This necessity is one which scarcely needs

illustration or explanation when it is considered that many of the most important and valuable inventions relate to these two classes of art. Electrical processes and apparatus—such as the telephone and improvements in telegraphy—are so well recognized in importance and value as to require no comment, and yet the determination of whether a new invention has been made in these arts or an improvement involving novelty and utility can be reached only by means of proper testing apparatus. This is also especially true in the field of chemistry—processes for the treatment of iron, producing by chemical means new qualities, and resolving crude iron into fine steel. Such subjects are being continually presented, and the examiner in charge is called upon to determine whether these results are accomplished by the processes claimed. The assertions of the applicants are supported by affidavits of parties in interest and by statements which appear to be reliable, and yet, in the absence of some means of testing the truth of the facts claimed, it is impossible for the Office to determine with that degree of certainty which should exist whether the invention is novel and useful and should be covered by a patent.

I recommend that some reasonable appropriation be made to provide for the purchase, from time to time, of apparatus and materials suitable for a laboratory for these purposes.

EMPLOYÉS.

It is well known that the business of the Patent Office and the number of applications presented are gradually increasing. There are periods when there is some slight decrease; but there is beyond any question a continuous and almost constant increase in the number of applications for patents. There are received in the Office now an average of about eight hundred applications each week, and the Office issues between three hundred and fifty and four hundred and eighty-five patents per week. There is no doubt that these numbers will gradually increase.

On the 30th of June the Commissioner was required by the last appropriation bill to reduce the force in the classified service of the Office to the extent of ten persons. In the present condition of the Office it is my opinion that the existing force, when properly arranged and organized, will be competent to transact the business and keep up the work, and I am gratified to be able to say that I have not felt justified in requesting any increase in the number of employés. I am gradually rearranging and reorganizing the force, and hope within a reasonable time to have it in as excellent working order as it is capable of. I have no doubt that if the Office had the conveniences, rooms, and facilities hereinbefore referred to the present force would be entirely adequate. Not only this, but a large saving in the way of expense would result, and the employés would be enabled to conduct the business with greater comfort and health. There can be no doubt that a great number of the rooms in which the employés of the various divisions are compelled to work are unhealthy and are more fit for storage than for occupancy by human beings.

LEGISLATION.

I beg to call the attention of Congress to the need of legislation on certain subjects which I deem of great importance in view of the present laws relating

to patents, their issuance, and other subjects connected therewith.

1. *Date of the patent.*

Section 4885 Revised Statutes provides—

Every patent shall bear date as of a day not later than six months from the time at which it was passed and allowed and notice thereof was sent to the applicant or his agent; and if the final fee is not paid within that period the patent shall be withheld.

This provision enables an applicant who fails to pay the final fee within six months after the allowance of his application to prolong the monopoly of his patent the period of six months, and it not infrequently occurs that parties having what they regard to be valuable inventions permit their applications to forfeit in order that they may avail themselves of section 4897, which allows them to make a renewal application for the same invention upon the payment of a new fee, but without filing any new papers, the original application, specification, and drawings being used. A new allowance is thus obtained of an application for the same invention, and this allowance may remain for six months after the expiration of the intervening two years before the party takes out his patent. The result of this practice is that unless the application is barred by a public use which may intervene an applicant has it in his power under these statutes to prolong the term of the patent which he may secure for an almost indefinite period.

I respectfully suggest that section 4885 be amended so as to require that the term of the patent when issued shall begin with the date on which the application was passed and allowed, and notice thereof sent to the applicant or his agent, applicant of course being allowed six months within which to pay the final fee and take out his patent, and that all renewals authorized in case of a forfeiture for non-payment of final fee be limited to the same claims, except in case of inadvertence or mistake, and that when so renewed the term of the patent begin with the date of the original allowance. The justice of this provision, as well as its wisdom, will be apparent from a consideration of the fact that in issuing the patent there arises by implication a contract between the Government on the one hand and the patentee on the other that the latter shall have the exclusive enjoyment of the patented property for a definite period, at the expiration of which period the property becomes that of the public. The United States extends to patentees more liberal protection and for a longer time than any other government—seventeen years—and it is neither just nor right to the public which is thus liberal and generous that there shall be found under this legislation methods by which the inventor can defeat the provisions which contemplate a termination of the monopoly and be able to prolong its enjoyment for many years beyond the period contemplated by law.

2. *Limitation of term of United States patent by foreign patent.*

Section 4887, after declaring that no person shall be debarred from receiving a patent in this country for his invention or discovery, nor shall any patent be declared invalid by reason of the invention having been first patented or caused to be patented in a foreign country, provides—

But every patent granted for an invention which has been previously patented in a foreign country shall be so limited as to

expire at the same time with the foreign patent, or, if there be more than one, at the same time with the one having the shortest term, and in no case shall it be in force more than seventeen years.

It is understood that the object of this legislation originally was to prevent an inventor from allowing the people of foreign nations to come into the free enjoyment of his invention at an earlier period than was permitted the people of our country, which earlier enjoyment resulted from the fact that the term of American patents, as just stated, is much longer than any allowed by foreign governments, so that it was impossible for an American inventor to take out a foreign patent without disclosing and making public his invention after the expiration of the shorter term in such foreign country. In the meantime the American people were excluded from the free enjoyment of the invention during the period intervening between the expiration of the foreign patent and the American patent. But I believe those conversant with the subject have never seen any wisdom in this provision of the law. A great deal of trouble and annoyance have resulted from it to inventors, both American and foreign, without, so far as is known, advantaging any one.

It is evident that the American patentee is entitled to seventeen years of protection under the patent granted him by this Government. There ought to be no distinction between an American inventor who takes out a patent at home but none abroad and one who takes out patents both in his own and some other country. Yet the American patentee who omits to take out a patent abroad makes his invention public and free in all the countries of Europe during the entire period, because his American patent becomes a publication which discloses the invention and prevents him from taking out any patents in foreign countries under the systems existing there, so that in such cases the people of foreign countries acquire the free use of an invention from the date of its publication in America, while the people of America submit to the monopoly enjoyed by the patentee during the entire period of seventeen years. The consequence of these conditions is that if the American patentee takes out his foreign patent first his domestic patent is limited in term to the short duration of the patent abroad. If, on the other hand, he takes out his American patent first, he is barred from taking out any patent under the foreign systems, which provide that any publication of a patent shall bar a patent in those countries. This inequity of the law has forced inventors both in America and abroad, at much trouble and expense, to arrange, wherever it was possible, to have their foreign and domestic patents issue on the same day, so that neither of the conditions alluded to could attach.

It is also suggested, in view of the fact that the number of Americans taking out patents abroad very largely exceeds the number of foreigners who take out patents in this country, that these conditions of law have operated much more disadvantageously to Americans than to foreigners, and that, therefore, there should be some modification in the law.

These difficulties and others which need not be elaborated in this connection have become so well recognized, for they not only exist between Americans and

foreigners, but between the different nations of Europe as well, that for some years past representatives of various governments have met together for the purpose of adopting and establishing articles of an International Union for the Protection of Industrial Property. Conventions were held at Rome and at Paris, and finally articles of a Union were adopted on the 20th of March, 1883, acceded to by Belgium, Brazil, Spain, France, Guatemala, Italy, the Netherlands, Portugal, Salvador, Servia, and Switzerland, the latter State being assigned the position of intermediary, through whom those adhering to the Union were to communicate with other States in relation to its objects. Subsequently other States gave their adhesion and became members of the Union, viz: Great Britain, Tunis, Norway, Sweden, the Dominican Republic, and the United States. A copy of the articles and protocols constituting this Union is attached to this report.

The adhesion of the United States to this Union was ratified on March 29, 1887. The purpose of this Union is to provide that persons who have made applications for patents in one of the States of the Union shall have a definite period thereafter within which to file their applications in other countries as of the same date at which their original applications were filed, and that no publication or use of the invented article during that period can deprive the applicants of their right of priority in all the States in which such applications were filed. It will be seen that this provision was intended to meet one of the very difficulties existing under section 4887 of the Revised Statutes, and which was heightened by the requirement that the term of the American patent should be limited by any patent issued to the patentee in foreign countries.

The advantages to American citizens under this Union are set forth in article 4 of the convention, to the effect that any person who has filed an application for a patent or who has applied for the registration of a trade-mark in the United States shall be entitled to priority in other countries of the Union as against persons making similar applications within a period defined. A person having applied for a patent in this country is entitled to have his case considered, if filed in another country, the same as if filed simultaneously with the application here.

There is great advantage in this in all countries where the patent is granted to the first applicant, which is generally the case in Europe and England; but it unfortunately happens under section 4887 that every patent granted in this country for an invention which has been previously patented in a foreign country is limited to expire with the foreign patent having the shortest term. It is well known that under the American system an examination of all applications must be made before the patent issues, and generally five, six, or seven months elapse after an application is filed before the patent issues. The result is that the American inventor who desires to avail himself of the advantages of the treaty is in danger of having his foreign patent granted first, for the reason, as just stated, that such foreign patent issues almost immediately after the application is filed, and therefore, necessarily, the term of his domestic patent is abridged by it.

This is the manner in which this condition of things

affects the American inventor; but the foreign inventor who comes to this country for a patent is not thus injuriously affected, because there is no provision under the European system that their patents shall be limited by the duration of an American patent; and if there were such, it would produce no limitation, because the American term, as already stated, is generally much longer than the terms provided by most of the European States. In my opinion, there is no reason for continuing this limitation, contained in the last clause of section 4887. While it stands it is almost a complete bar to the enjoyment of the privileges of this Union between the various States named and the United States. The repeal of this clause has been suggested in the reports of Commissioners heretofore. It is a source of much vexation to the inventors and of trouble to the Patent Office, it is out of harmony with the spirit of our patent law, and, in my judgment, it ought to be repealed.

3. *Assignments of patents.*

Section 4898 provides that an assignment, grant, or conveyance shall be void as against any subsequent purchaser or mortgagee for a valuable consideration without notice unless such instrument be recorded in the Patent Office within three months from the date thereof. In my opinion, this requirement operates unjustly in providing that an assignment, if recorded after three months from the date thereof, shall have no effect as constructive notice to a subsequent purchaser or mortgagee for a valuable consideration. The provision, in my judgment, should be modified so as to declare that while the assignment should be valid without recording for the period of three months from and after its date, thereafter it should be void against any subsequent purchaser or mortgagee for a valuable consideration without notice unless it be recorded in the Patent Office prior to the date of such subsequent purchase or mortgage, so that should the assignee fail through forgetfulness or accident to file his instrument of assignment within three months he might still file it for record at a subsequent period, and it should then give constructive notice from the date of its actual filing.

4. *Money paid into the Treasury by mistake.*

Section 4935 provides for the payment of fees to the Commissioner of Patents, or to the Treasurer, or any of the assistant treasurers of the United States, or to any of the designated depositaries, national banks, &c. All moneys received at the Patent Office from every source whatever are required to be paid into the Treasury as received without any deduction for any purpose. Section 4936 provides that the Treasurer of the United States is authorized to pay back any sum or sums of money to any person who has through mistake paid the same into the Treasury or to any receiver or depositary to the credit of the Treasury as for fees accruing at the Patent Office, &c.

The Commissioner of Patents has the unquestioned authority to correct a mistake occurring in his Office and to refund to any individual who has paid money to the financial clerk through mistake or accident if such correction be made before the money has been covered into the Treasury or placed in a depositary of the Treasury. Such corrections are occurring constantly

by reason of mistakes in making change and from demands made on account of applications which either are not filed or are withdrawn on account of some impropriety or irregularity in their presentment; but when the money has been covered into the Treasury the Commissioner of Patents no longer has the power to correct such mistakes, and as it frequently occurs that the mistake is not discovered until after the money has been covered into the Treasury the party in interest is required to go through the somewhat tedious process of applying to the Treasury and furnishing proofs before he can obtain the correction of the mistake. Generally all evidence of the mistake is disclosed by the records of the Patent Office, and the Secretary of the Treasury is uniformly required to make examination and reference of the matter to this Office before acting on the application. The Patent Office is thus put to the same trouble of inquiry and examination as it would be were the whole matter in the hands of the Commissioner of Patents. The amounts involved are always small sums—either the first filing-fee of fifteen dollars, or the twenty dollars final fee, or some small sum involved in making change. I can see no reason why the Commissioner of Patents should not be authorized to make all corrections of mistakes of this character which occur in his Office and to refund the money, and I recommend that authority be given for that purpose.

5. *The attorneys' fund.*

In this connection I desire to call attention to what may be regarded as equitable claims on behalf of a number of patent attorneys against the Patent Office resulting from a defalcation on the part of the late financial clerk, Mr. Levi Bacon. The claims grew out of the following facts and practice formerly prevailing in this Office: The statutes of the United States require that all payments to be made into the Patent Office for copies, records, or work to be done shall be tendered in advance or simultaneously with the delivery of the copies, records, or work; but persons were constantly sending for such copies of records from remote parts of the country, not knowing what the cost would be, and the Office had been in the habit of responding to such requests with an estimated cost of the work. Thus the delivering of the copies or other work desired was considerably delayed. On the other hand, many parties were in the habit of remitting a larger sum of money than would be required, and directing the Office to furnish the copies or records immediately and return the change. There grew up in the Office, in consequence of the difficulties attending this method of transacting the business, the practice of extending a credit to patent attorneys in good standing and requiring them to remit the amount of their accounts once each month; but after some years' experience considerable sums of money were lost in consequence of the death, disappearance, or inability of the attorneys to pay. In 1878 Mr. Commissioner Spear issued an order authorizing persons dealing with the Office to deposit with the financial clerk a special fund, to be drawn against as they saw proper. After the issuance of this order it was the practice of the financial clerk to receive the money thus deposited and place it in envelopes, upon the back of which was

kept the account between the Office and the attorney. This fund was regarded as a private fund, at all times the property of the attorney, no part of which went into the public funds or into the Treasury except as it was so drawn against, and the sum then so drawn was applied and paid over into the Treasury. The balance on hand was always regarded as the money of the individual, subject to his order and liable to be withdrawn at any time he might desire to have it returned. On the death of the financial clerk, Mr. Bacon, in June, 1887, it was found that the various balances which should have been in these envelopes were gone, and that no account could be given of this so-called "Attorneys' Fund," or "Miscellaneous Fund," as it was sometimes termed. At the same time it appeared that the Office had these various attorneys charged with copies, records, and other material furnished which should have been, and but for the defalcation would have been, paid for by the sums of money in the various envelopes to the credit of the parties in interest; but the money not being found, these accounts were regarded as just and valid claims against attorneys, and it was held that the fact that each at some previous time had had in the hands of the financial clerk sufficient money to provide for the payment of these accounts could not be regarded as liquidating the same. The Commissioner of Patents entertained the view that an officer of the Government could not incur a liability without the express provision of law, and that he had no authority to receive private deposits and make the Government liable for them, or to secure such deposits either by the money of the Government or by their equivalent in work, copies, &c. In his opinion, the case was very much the same as though the attorneys had come to the financial clerk with a bill of large denomination, and, instead of tendering the exact sum which was due, intrusted him with the bill, allowing him to make change, and upon his failure to return the change should attempt to hold the Government liable for the difference. No doubt there were a number of these attorneys who deposited their money without much consideration. They find themselves now indebted in small sums of money to the Office, and they naturally insist that they understood they were dealing with the Government, and that the Government ought to indemnify them for their loss. These claims have certainly strong equitable features. The practice grew up out of the order of Commissioner Spear, the money deposited by the attorneys was always made payable to the Commissioner of Patents, and all the correspondence, receipts, &c., were conducted in the name of the Commissioner. In my judgment, Congress should authorize the Commissioner of Patents to adjust these claims, subject to the approval of the Secretary of the Interior, and to pay them by the recognition of orders for copies, records, assignments, &c. This would restore the parties to all their rights without the payment of any cash, by simply supplying these attorneys with what it was originally contemplated they should receive. The amount involved is about five thousand dollars (\$5,000.)

It will not be regarded as improper in this connection to call attention to the fact that since the defalcation alluded to was discovered the Commissioner

has taken careful steps to guard against any possible misappropriation of the public moneys. All money deposited by attorneys or others is now required to be at once transferred to the Treasury and placed beyond the control of the Patent Office. When this defalcation was disclosed, it was also ascertained that during the long period of Mr. Bacon's possession of the office, though millions of dollars had passed through his hands, there had never been a settlement of his accounts. The practice now prevails of requiring a quarterly and annual adjustment of the accounts of the financial clerk. In addition, an entirely new system of receiving and accounting for the funds received has been adopted, with checks and counter-checks, so that it is believed to be now practically impossible for any mistake or misappropriation to occur without being at once detected. The importance of the subject will be seen when the fact is considered that the daily receipts average about three thousand dollars.

6. *Delay in prosecuting applications.*

I desire to call especial attention to the subject of the delays which occur in the Patent Office on the part of applicants in the prosecution of their applications for patents.

Section 4894 provides—

All applications for patent shall be completed and prepared for examination within two years after the filing of the application, and in default thereof, or upon failure of the applicant to prosecute the same within two years after any action therein, of which notice shall have been given to the applicant, they shall be regarded as abandoned by the parties thereto, unless it be shown to the satisfaction of the Commissioner of Patents that such delay was unavoidable.

Under this section applicants who desire to prolong their applications and postpone action therein have an ample opportunity to do so. There are two classes of persons who apply for patents, *one* composed of those who are exceedingly anxious to obtain their patents at the earliest practicable moment, the *other* of those who desire to prolong the issue of their patents and to keep the application pending in the Patent Office to the very latest date possible. The second class embraces the more powerful, rich, and influential parties, who are either the inventors or the assignees of the inventors. This section of the statute enables the second class of persons to keep their applications pending in the Office for years before their patents issue. In the meantime they are engaged in manufacturing and putting upon the market the article or improvement, but warning the public that the patent is applied for, the effect of which is to give them the absolute control and monopoly of the invention and to deter all other inventors from entering upon the same field of invention and from manufacturing the article. The manner in which this delay is effected may be briefly explained: The applicant files his application and is allowed two years within which to complete or perfect it. Any action of the Office requiring change or modification or some formal correction can be followed under this section by a further delay of two years before the applicant is required to take any action in response. At the expiration of the two years he perhaps makes some amendment or change in the character of his claims. This involves a corresponding action on the part of the Office, and, however prompt and speedy this action may be, the applicant is per-

mitted another two years before any responsive action can be compelled from him; and so the matter may be continued. There are applications now in the Office which have been kept alive nine or ten years, and the Office is powerless to compel speedier or earlier action on the part of the applicants.

I have recently had occasion to direct an investigation to be made into this matter, and I submit as a part of this report the result reached by a committee on the subject, showing the number of applications in the Office which have been so pending for a number of years.

These repeated actions and these long-continued delays cannot fail to suggest that a great deal of useless and unnecessary labor and consumption of time in the Patent Office are involved. Every application stands in its proper place upon the calendar of the Office, and when reached in its order it must be examined carefully to see whether any action has been had since the last-recorded action of the Office, so that a case which has remained for two years without responsive action from the applicant may probably be examined twenty or thirty times simply to ascertain that nothing has been done. When it is considered that this labor is multiplied by the number of applications which are thus delayed the amount of useless and unnecessary labor expended can be appreciated.

While calling attention to the fact that this two years' period in the case of original applications is too long, it will be a matter of surprise to know that in applications for reissues Congress has omitted to fix any period (except the duration of the original patent) within which they become abandoned for want of prosecution. A reissue application is always alive, and the applicant may file an amendment ten years after it was required by the Office to be made and be entitled to have it considered and acted on.

I earnestly recommend that section 4894 be so modified that there shall be vested in the Commissioner of Patents a discretion to declare any application forfeited for want of prosecution whenever he shall be satisfied that such order should be entered. This power is possessed by all tribunals who have the control of litigation and matters of this character. Of course the exercise of this power should be guarded by proper restrictions, so that injury or wrong cannot be done, and no order of this kind should be made by the Commissioner until ample notice has been given to the applicant to show cause why his application should not be declared forfeited. The power to reinstate a case after it had been declared abandoned should and would be preserved under section 4894, whenever, in case of death, insanity, or other good and sufficient cause, it should be made to appear to the satisfaction of the Commissioner that the want of prosecution was unavoidable, and that the party was incapable of showing cause why the case should not be declared abandoned.

7. *Renewal application where case was forfeited for non-payment of final fee.*

Section 4885 provides that, after the Office has passed and allowed an application and nothing remains but the payment of the final fee to complete the issuance of a patent, if the fee be not paid within the period of

six months the patent shall be withheld. I have already called attention to the fact that very frequently the payment of this final fee is purposely omitted in order to permit the applicant to extend the period of his monopoly; but of course this is not always the case. The provision of section 4897, which enables a party who has failed to make such payment to file a renewed application within two years from the date of the allowance of the original application and obtain his patent, is a wise and just provision; but there is very much doubt and uncertainty as to the meaning of this section, in so far as it requires that "such second application must be made within two years after the allowance of the original application." It has been held by high authority that the effect of this provision is by construction to bar the *invention* as well as the *application* if the renewed application be not filed within two years. On the other hand, there is also high authority that such is not the effect, and that even if two years have elapsed after the allowance of the original application the new application may be made and may go to patent, notwithstanding the existence of the original application, its allowance, and its forfeiture for non-payment of the final fee. This section should be amended to remove this uncertainty. I am of the opinion that the limitation should be to the invention; and not only this, but that when an application for a patent has been allowed by the Office and the applicant has failed to pay the final fee within six months, and has also failed to renew the application within two years, the invention should be made public and become public property as of the date of the original allowance. I think this should be the result, from a proper consideration of the relations between the Government and the inventor. The inventor has conceived and presented a new invention. He comes into the Office for the purpose of donating that invention to the public after he shall have first enjoyed its exclusive use for the period provided by law. The Office has made a careful and thorough examination, has discharged all its part of the contract, and extended to the applicant the right to take out his patent upon paying the charges required. The public from this moment is entitled to its part of the consideration of the contract, and ought not to be deprived of it upon the failure of the inventor to fulfill his. The invention has become so far public as to be made known to the Patent Office. The law extends to the applicant the full period of two years within which to avail himself of all his rights and to enjoy his property. Failing in this, he ought not to have it in his power to conceal the invention as a lost art and to deprive the public of it. On the other hand, other inventors may invent the same thing and come into the Office, and by patenting the invention deprive the public of what they have already acquired right to by virtue of the allowance of the first application. In other words, when an invention has been made and disclosed to the Office, and the application has been passed to issue, that invention should be taken out of the field of patentability as to all future inventors, and ought not to be regarded as a concealed or abandoned invention. I therefore recommend the modification of the statute so as to provide that such second application must be filed within two years after the allow-

ance of the original application, and if not so filed the invention shall be regarded as abandoned to and as the property of the public.

8. *Joint inventors.*

Under the present statutes a patent may issue to a sole inventor or joint inventors, to an inventor and his assignee of a part interest, or to the assignee or assignees of the entire interest. Every patent issued to a sole inventor or to an inventor and his assignee of an undivided part, or to the assignees of the whole interest, is beyond challenge so far as an improper union of persons as patentees is concerned—that is to say, the law authorizes the patent to issue to the inventor or to any person or persons to whom he desires that it shall issue, and this is the principle which underlies the statute authorizing the assignment, grant, or conveyance either of the original invention before patent has been granted or of the patent after it is issued; but while there is no express provision of law declaring that a patent issued to joint inventors is void, should it appear that they were not joint inventors, yet that is the well-settled law, as announced by the courts. The statute also requires that the assignees of the inventor shall be such by virtue of a written formal legal assignment; but in the case of a patent to joint inventors, when it turns out that by mistake or error of law one of them was not a joint inventor, but the sole inventor, the other does not become a patentee as an assignee under a formal legal assignment, although he does become one of the joint patentees with the full consent and wish of his co-patentee. Inasmuch as it is often one of the most perplexing and difficult questions coming before the Office or before the courts to determine whether an invention is actually a sole invention or a joint invention in which two or more persons contributed, there seems no reason why a patent which is thus issued to persons who supposed themselves to be joint inventors should be invalid. Under all other systems within my knowledge the patent is allowed to issue in the name of those persons who demand it in whatever capacity or relation they may make the demand, and it is only requisite that one or more of the patentees shall have been the true inventor. I am aware of no reason why such should not be the law in the United States; and when there is taken into consideration the amount of time, labor, and trouble involved in investigating the question as to whether there was or was not an actual joint invention, and other incidental questions which are constantly arising, as well as the injustice to the patentees themselves of having their patents declared void, I find ample reason for recommending a provision of law expressly providing that patents shall not be held to be invalid by reason of the fact that the persons described as joint inventors were not joint inventors, provided that either one of them thus described was in fact the true and sole inventor.

9. *Trade-marks and interstate commerce.*

After the decision of the Supreme Court of the United States in the trade-mark cases, (100 U. S., 82,) which held that the acts of Congress approved July 8, 1870, and August 14, 1876, were unconstitutional, and that Congress had no power to legislate upon the subject of trade-marks *per se*, the act of March 3, 1881,

was enacted under the provisions of the Constitution conferring upon Congress the power to regulate commerce. That power, it is conceded, extends to commerce with foreign nations, commerce with the Indian tribes, and interstate commerce; but for some cause not apparent in the enactment approved March 3, 1881, Congress saw proper to authorize the registration of only such trade-marks as were used in commerce with foreign nations or with the Indian tribes and left trade-marks which might be used in commerce between the States wholly unprovided for. If there be any reason why the latter class of trade-marks should be excluded from the protection of Federal legislation, or left to the regulations prescribed by the States, or wholly omitted, it is not apparent. The attention of Congress has been called to this subject by my predecessors, and I respectfully renew the suggestion that the provisions of that act be enlarged so as to cover trade-marks used in interstate commerce. This question has become more important in view of the Union hereinbefore referred to for the protection of industrial property. Some additional legislation by Congress is necessary in view of the new situation resulting from this treaty. Article 6 of the convention declares that “every trade or commercial mark deposited in the country of origin shall be admitted to deposit and so protected in all other countries of the Union.” It is evident from this declaration that if the article were to be fully carried out in this country it would probably admit to registration trade-marks which otherwise would not be admissible under the existing laws of Congress. In other words, the provision is more liberal than the act of March 3, 1881. It is more liberal than was the common law, because under each there were limitations which excluded trade-marks which were not regarded as lawful in some sense, and which were calculated to mislead, or were regarded as in contravention of religious ideas, morals, &c. The definition of a trade-mark is substantially the same in all commercial countries; but practice varies in the application of these definitions and in respect to the character of marks which may be protected. For instance, the usage in Southern Europe in respect to the employment of sacred names and symbols warrants their adoption as trade-marks in relations which would be offensive and perhaps sacrilegious to much of the American sentiment. In a case where a representation of the Virgin Mary was claimed for soap this Office held that its use in such a connection was offensive to a great proportion of the people of the United States, and therefore that it was not entitled to protection; yet it is actually protected in France, where a different sentiment prevails. Instances of this kind are rare; but the statute should be framed to cover all cases likely to arise. If Congress, therefore, is inclined to make the law of trade-marks conform to the provision of the Convention, the act of March 3, 1881, should be amended so as to admit to registration any trade-mark already lawfully registered in any of the countries of the International Union, subject, of course, to the conditions which require preliminary examination as to prior use and employment in the class of commerce over which the legislation of Congress extends.

Another question in connection with trade-marks

which will suggest appropriate legislation relates to the coercive features of the provisions of the treaty intended to give trade-mark property a protection which would be unknown to the common law or to the statutes of this country. These provisions will be found in articles 9 and 10 of the Convention, and may be briefly stated to include seizure upon importation of any article of merchandise bearing an illicit trade-mark or a false or fraudulent intimation of origin. Of course, it is to be understood that the practical operation of such legislation would apply in this country to goods imported from abroad, and would authorize the seizure in this country of such goods. The act of August 14, 1876, provided for the seizure by United States marshals of all appliances used for counterfeiting or the fraudulent imitation of registered trade-marks. Section 2496 of the Revised Statutes, as amended March 3, 1883, refuses entry at the custom-house to foreign goods bearing simulations of the trade-marks of domestic manufactures. These two acts contain all the protection afforded by the United States statutes to our citizens so far as coercive measures are concerned. Of course, the common law and the statutes afford a civil remedy for infringement; but in view of the fact, that as between the owner of a trade-mark in one country and the infringer of it in another, the civil remedy is so expensive, it practically constitutes no protection. Every country seems to have felt the necessity of employing coercive measures to prevent fraud of this character. No act of Congress has ever contemplated the seizure of merchandise bearing counterfeit or simulated trade-marks, and under the present laws the courts of Federal jurisdiction have no jurisdiction to enforce such seizures. Whether such legislation should be made is submitted to the consideration of Congress.

Under Article 6 of the Constitution of the United States this Convention is now a part of the supreme law of the land. The Government may withdraw from it when inclined to do so; but until such withdrawal its provisions must be recognized, and ought to be enforced by appropriate legislation empowering the proper officers to make the required seizures, and determining the due proceedings in our courts which are necessary to enforce the provisions of the treaty and protect the rights of individuals. It is true that under the general provisions of this treaty, as set forth in Article 2, there is only contemplated giving to the citizens and subjects of foreign States the same protection that our own citizens enjoy; but it is to be apprehended that while it is not expected the same procedure and method will be employed, yet the same ample protection will be afforded to citizens of foreign countries which would be demanded for our own citizens.

10. *Restriction of some of the evils of the patent system.*

The growth and development of the patent system of the United States, and of inventive genius stimulated by the rewards and prospects of rewards growing out of that system, are the subjects of constant comment and public consideration. That this system has been useful and beneficent is beyond question. Quoting from one of the annual reports of Mr. Commissioner Butterworth:

Touching the first objection, I submit that careful investigation will show that the patent system is the foundation upon which the industrial interests of this country are based. We are, in fact, indebted for our unequalled growth and prosperity as a manufacturing people to its influence. Nor is its healthful influence confined to the shops and factories, but extends to the fields, mines, and forests. The mere desire which all our people naturally feel to secure increased comforts and improved methods would never have resulted in even a distant approach to our present condition as a productive nation but for the great incentive found in securing to the inventor for a term of years the absolute ownership of the improved machine, method, process, or discovery which is the result of his efforts. It has been urged that the inventive genius of our people would have given to the world substantially all the improvements we have now without this incentive. Such a proposition seems so unreasonable that it is hardly worth while to combat it by argument. We sow not only to reap, but in the expectation of reaping an adequate harvest. No one would devote years of patient study, careful and profound thought and investigation, based on experiments, merely to produce a machine for his own individual use. The British Parliament a few years since appointed a committee to take testimony and to make full investigation to ascertain the influence of and necessity for a patent system. That investigation settled beyond all controversy, at least so far as the English nation is concerned, that without the patent system the inventive genius of that people would have remained inactive, and little progress would have been made during several centuries in the direction of developing the great industries which are now the source of English wealth and power.

While preparing the exhibits for the World's Industrial and Cotton Centennial Exposition at New Orleans I endeavored by correspondence to gather what information I could touching the relation our patent system sustains to the growth of our own industries, and from the investigations I have made I feel safe in saying that to this system we are chiefly indebted for our present great industrial prosperity. The percentage of manufacturing establishments in this country which have not utilized the patent system in one way or another, as a means either of founding a business or building up and extending it, is very small. But, as suggested before, it is urged that this exclusive property in a patent imposes burdens upon our people. The exact reverse is true.

In this connection one important fact in the matter of using articles or machines which have been patented seems to be generally overlooked, and that is that no one is compelled to use any patented invention. The blessed privilege of sticking to the old way abides with all of us, notwithstanding the patent system. Farmers are under no obligations whatever to lay aside the sickle, scythe, or cradle, and use the reaper and mower. They may still, if they will, rake and bind wheat and oats with their hands, instead of doing it by machinery. There does not rest upon them the slightest obligation to use a thrasher or separator, since they are at perfect liberty to swing the flail or use the tramping-floor. The hand-loom may still be used, notwithstanding the inventions of Jacquard and Arkwright, supplemented and improved by modern inventions. The old spinning-wheel need not be thrown aside because the inventive genius of man has given us the spinning-jenny and its kindred aids in that art. There rests no obligation upon any of us to use the telephone, the telegraph, the locomotive, or the engine. In fact, in all things we may stick absolutely to the old way, and submit ourselves to all the inconveniences and discomforts of the olden time. Every farmer may continue to build a worm or post-and-rail or stone fence, instead of using barbed wire. In this connection it is proper to remark that he pays for his barbed-wire fence but little, if any, more than fifty per cent. of the cost of the old board or post-and-rail fence, and it has been demonstrated that the farmers of the country have in the last few years saved over sixty millions of dollars by the use of this valuable invention. In fact, all inventions are utilized not simply because they are more convenient, but because they are cheaper and better.

Touching the statement that laborers are thrown out of employment and wages reduced by the use of patented devices, it is sufficient to say that the allegation is entirely at variance with the best information obtainable from the returns of the last census. The utilization of valuable inventions does not throw laborers out of employment, but redistributes labor and opens up new avenues of employment, calls into requisition a higher order of skill, and secures an increase of wages. For example, take the boot and shoe industry, where a few hundred machines have changed the whole course of labor. The census of 1870 showed that there was an average of twenty-nine persons employed in every shoe factory in this country, whereas in 1880 there were fifty-six persons so employed. The same number of persons in 1875 made *three times* as many shoes as in 1845. In a table prepared by Colonel Wright, chief of the Bureau of Labor, it is shown that in 1870 there were employed 91,702 men, women, and children, while in 1880 there were 111,152. In estimates based upon four hundred and sixty shoe-manufacturing establishments in Massachusetts it is shown that three millions of dollars more are paid in wages than the capital invested, and that the labor-saving machinery has given to the laborer in 1880 almost double the wages of 1850.

But for the growth of our industries, due to the patent system, there would have been no employment in this country, otherwise than in the fields, for ten per cent. of the immigrants who have come among us. While an important invention may result in utilizing a machine which will do the work of a dozen men, the result is to open up an avenue of employment which will give work to double the number. The comforts and conveniences of life are made more abundant and cheaper, the consumption larger.

When the advantages which our country derives from the patent system are considered, in connection with the fact that it does not cost the Government a farthing, the whole expense being paid by those having business with the Office, either as appli-

cants for patents or otherwise, it would seem that there should be no hesitation in appropriating at least the money paid in and received by the Government in trust for the purpose of promptly and efficiently conducting the business of the Bureau. While the Patent Office has been more than self-sustaining, the cost to those having business to transact has been reduced and the facilities increased. A few years since it cost from \$2.50 to \$35 to obtain a copy of the drawings of a patent. Under the system of photolithographing now adopted the Office can supply copies of patents with perfect reproductions of the drawings at nominal cost—viz., twenty-five cents for single copies, or ten cents when twenty or more are ordered. Not only this, but the entire expense of producing these photolithographic copies is more than paid by the proceeds of the sales.

But it is impossible that such a growth and development could have occurred and not be accompanied by greater or lesser evils. The attention of the public has been for years constantly called to the fact that the inventor himself rarely secures the real reward of his invention. This undoubtedly proceeds from the fact that quite as much genius is required to develop a property or manufacture and place it advantageously upon the market in so great a country as this, and to make it remunerative, as is required to make the invention, and it is the misfortune of inventors, as a general rule, not to be possessed of business habits and business faculties. The result has been that nearly all the great and most useful inventions of modern times have fallen into the hands of men of capital or corporations, who alone have the means to bring them before the public, develop their useful qualities, and enable the people directly to see that they are useful and can be produced at prices which remunerate. This condition of things cannot be remedied, and perhaps ought not to be. There should be no legislation which interferes with the right of property which is vested in the inventor from the moment he has created a new subject of invention. The entire system and theory of patent property rest upon the idea that that which a man invents in the sense of its being a new and novel creation is his individual property, which he owns by the right of creation and discovery. It is not the theory of the patent law that when the Government grants a patent to an inventor it confers upon him any such property as it does in the case of a patent for land, which belonging to the Government at one moment becomes the property of the patentee upon the execution of the instrument; but the patent in the former case recognizes the existence of the property in the individual, but in consequence of its intangible and incorporeal nature it is incapable of protection from invasion by other persons, unless some distinct and specific remedy is afforded the inventor against such invasion and infringement. Letters patent are mere evidence of the fact that, in the opinion of the Government, the patentee has invented a new, useful, and original invention, and the Government undertakes to protect him in the exclusive enjoyment of that property for a definite term. Now, any legislation which departs from this theory and proceeds upon the idea that the patentee should not be entitled to full protection is a mistake. Many suggestions have been made as to the best method of protecting the inventor and enabling him to realize, as far as possible, the value of his invention, and at the same time protecting the public against vast and powerful corporations in patent property exacting greater values than can be justified upon any fair or reasonable consideration, and which by buying in all the succeeding improvements in a certain line of invention are enabled

for generations to perpetuate a monopoly which ought to have more reasonable limits. It must be understood that a monopoly which erects and locates itself all over the country in every business center under the provisions of a patent is able in nearly all cases to prolong its life after the patent expires by reason of the possession which it has taken of the market. New manufacturers are unable for years after the expiration of the patent to come into the market and compete with an organization which thus has such complete possession of the field of manufacture.

It has been recommended that some legislation should be had looking toward the restriction of the extension of patents and patented property. In this direction I suggest for the consideration of Congress the propriety of providing that all patents hereafter issuing shall contain a condition that they may be extinguished by the Government at any time upon the payment to the owners of the property, whether the patentee or his assigns, of a reasonable sum of money, such sum to be determined by arbitration or otherwise, as may seem appropriate to Congress. It is probably safe and accurate to say that patent property as a rule is not as valuable as is popularly estimated. The profits which are enjoyed by the owners of property of this character are rather the result of having control of the market and being everywhere firmly established in the business of manufacturing the patented article. It is well known that the licensees under patents make enormous profits in the manufacture of such articles as the barbed-wire, after having paid the royalty to the patentee, and it is probably true of all the great concerns engaged in manufacturing patented articles that they would still be able to conduct a large and profitable business were the patent to be extinguished. In view of the fact, already suggested, that in rare instances only do the original patentees obtain any adequate remuneration for their inventions, it seems entirely proper that the Government at any time should have the power in its discretion to extinguish the patent by paying such sum as would be a reasonable consideration for the appropriation of private property for public purposes. Of course, but few inventions would be extinguished in this way, as their importance generally is not such as to justify interference by the Government.

11. *Abridgment of patents.*

I desire to call the attention of Congress to the necessity of making provision for the compilation and publication of a classified abridgment of patents. The necessity for this publication has been earnestly set forth in the Annual Reports of this Office since 1848, when Mr. Commissioner Ewbank first called the attention of Congress to the subject. I hereto append extracts from these reports for a full understanding of the matter. Year by year the need and demand for such a work are more and more forcibly felt. Each field of invention broadens, and the necessary examination to determine the utility, novelty, and usefulness of the invention presented becomes more intricate and difficult. No better illustration need be cited to show that such an abridgment is almost indispensable than the publication of patents relating to electricity. Copies of all patents on this sub-

ject from the year 1790 to July, 1880, were compiled and bound for the Electrical Congress held at Paris in 1880. This publication has since been continued, and now comprises forty-nine volumes. It is doubtful whether the work of the Office could keep pace with the vast number of applications which have been filed since the impetus given to inventive genius by the electric light and telephone were it not for these volumes, whereby examinations are facilitated and accuracy secured. In 1881 Congress appropriated \$10,000 to begin this work. Fourteen thousand patents relating to agricultural implements were abridged and the briefs made ready for publication. The appropriation, however, was not continued, and the material was boxed and stored away. An appropriation of not less than \$20,000 will be required to continue the work of abridging patents and to publish the material already prepared. The ready sale to manufacturers and inventors of such an abridgment would speedily reimburse the Government for all moneys expended in compiling and publishing such a work, and it is believed that the revenues resulting from such sales would largely increase the receipts of the Office.

12. Exchange of publications.

Some provision should be made by Congress by which this Office can be furnished, for publication in the OFFICIAL GAZETTE, with certified copies of all decrees, decisions, and judgments made by the Federal courts in patent cases. I recommend that authority be conferred upon the Commissioner of Patents to furnish the OFFICIAL GAZETTE to the clerk of any Federal court, or to the library belonging to the court, in exchange for the decisions rendered by such Federal court.

I further recommend that the Commissioner be vested with authority to exchange the OFFICIAL GAZETTE for any publication of a scientific or useful character published in this or any foreign country, which, in his judgment, would be desirable and valuable to the scientific library of the Patent Office.

BUSINESS OF THE PATENT OFFICE.

The total number of applications received during the calendar year 1887 requiring examination was 41,153. The total number of patents issued was 22,990. The gross receipts were \$1,144,509.60; the expenditures, \$994,472.22; net surplus after paying every expense incident to the maintenance of the Office, \$150,037.38. The following statements exhibit in detail all moneys received and expended, the number of applications received and patents granted, and also other information relating to the business and condition of the Patent Office which the Commissioner of Patents is directed to furnish to Congress:

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.*

Applications:	
Cash received.....	\$977,435 00
Cash refunded.....	3,435 00
Net cash.....	974,000 00
Certificates of deposit.....	46,530 00
Total cash and certificates.....	1,020,530 00

*A large number of copies of patents are furnished to co-ordinate branches of the Government for which no charge is made. The receipts would be considerably increased if the Office received payment for these copies.

Copies:	
Cash received.....	79,724 71
Cash refunded.....	1,889 19
Net cash.....	77,835 52
Certificates of deposit.....	401 65
Total cash and certificates.....	78,237 17
Recording assignments:	
Cash received.....	29,187 25
Cash refunded.....	1,239 05
Net cash.....	27,948 20
Certificates of deposit.....	483 25
Total cash and certificates.....	28,431 45
Subscription to Official Gazette:	
Cash received.....	14,400 08
Cash refunded.....	92 60
Net cash.....	14,307 48
Certificates of deposit.....	100 00
Total cash and certificates.....	14,407 48
Registration of labels:	
Cash received.....	4,110 00
Cash refunded.....	1,248 50
Net cash.....	2,861 50
Certificates of deposit.....	42 00
Total cash and certificates.....	2,903 50

Aggregates.

Cash received.....	\$1,104,857 04
Cash refunded.....	7,904 34
Net cash.....	1,096,952 70
Certificates of deposit.....	47,556 90
Total cash and certificates.....	1,144,509 60

EXPENDITURES.

Amount expended by this Office under the several appropriations from January 1, 1887, to December 31, 1887.

Salaries.....	\$639,124 35
Official Gazette.....	41,734 90
Photolithographing.....	79,515 12
Scientific library.....	3,409 04
Transportation of publications to foreign governments.....	376 96
Total.....	764,160 37

Approximate amount expended by the Department of the Interior on account of this Office from January 1, 1887, to December 31, 1887.*

Stationery.....	\$11,046 00
Postage on foreign matter.....	932 00
Printing and binding.....	192,152 71
Contingent expenses (including furniture, hardware, carpets, ice, file-holders, desks, cases, washing towels, keeping of horse, &c., telephone, winding clocks, and sundries)†.....	26,181 14
Total.....	230,311 85
Aggregate amount of expenditures.....	994,472 22

RECEIPTS OVER EXPENDITURES.

Total receipts.....	\$1,144,509 60
Total expenditures.....	994,472 22
Receipts over expenditures.....	150,037 38

*A literal compliance with the provisions of the statute requiring "a detailed statement of all expenditures for contingent and miscellaneous expenses" is not possible, for the reason that the contingent fund for the several bureaus of this Department was consolidated by the act of March 3, 1883, and hence no part of that fund is disbursed by the Patent Office, and I am furnished only with an approximate sum, expended on behalf of the Patent Office.

†This Office has not been furnished with the item of expenses on account of the watch force, as such expenditure is under the control of the Secretary of the Interior, and the force is distributed through the several bureaus of the Department.

Statement of balance in the Treasury of the United States on account of the Patent fund.

Amount to the credit of the fund January 1, 1887..	\$3,107,453 53
Amount of receipts during the year 1887.....	1,144,509 60
Total	4,251,963 13
Deduct expenditures for the year 1887	994,472 22
Balance January 1, 1888	3,257,490 91

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Number of applications for patents for inventions.....	34,420
Number of applications for patents for designs.....	1,041
Number of applications for reissues of patents	152
Total number of applications relating to patents ..	35,613
Number of caveats filed	2,622
Number of applications for registration of trade-marks..	1,282
Number of applications for registration of labels.....	686
Number of disclaimers filed	9
Number of appeals on the merits	941
Total.....	5,540
Total number of applications requiring investigation and action	41,153
Number of patents issued, including designs	21,378
Number of patents reissued	99
Number of trade-marks registered.....	1,133
Number of labels registered.....	380
Total.....	22,990
Number of patents expired during the year.....	12,157
Number of patents withheld for non-payment of final fee.	3,044

PATENTS ISSUED.

Patents issued to citizens of the United States, with the ratio of population to each patent granted.

States and Territories.	Patents and designs.	One to every—
Alabama.....	54	23,379
Arizona Territory	3	13,480
Arkansas	65	12,346
California.....	505	1,712
Colorado	151	1,286
Connecticut.....	788	790
Dakota Territory	71	1,903
Delaware	34	4,312
District of Columbia.....	210	845
Florida.....	41	6,573
Georgia	130	11,862
Idaho Territory.....	4	8,152
Illinois	1,595	1,929
Indian Territory	3	.....
Indiana	556	3,558
Iowa	438	3,709
Kansas.....	311	3,202
Kentucky	245	6,729
Louisiana	112	8,392
Maine	151	4,297
Maryland	253	3,695
Massachusetts	1,875	950
Michigan.....	733	2,233
Minnesota.....	305	2,559
Mississippi.....	45	25,146
Missouri	654	3,315
Montana Territory.....	22	1,779
Nebraska	127	3,562
Nevada	15	4,151
New Hampshire	166	2,090
New Jersey	988	1,144
New Mexico Territory	9	13,285
New York.....	4,047	1,255
North Carolina	66	21,208
Ohio	1,477	2,165
Oregon.....	59	2,962
Pennsylvania	2,109	2,030
Rhode Island.....	224	1,234
South Carolina.....	52	19,145
Tennessee.....	121	12,746
Texas	265	6,006
Utah Territory.....	21	6,855
Vermont.....	112	2,966
Virginia.....	132	11,458
Washington Territory	44	1,707
West Virginia.....	75	8,246
Wisconsin.....	427	3,080
Wyoming.....	4	5,197
United States Army	12	.....
United States Navy.....	6	.....
Total.....	19,912	.....

Patents issued to citizens of foreign countries.

Argentine Republic	1
Australia	2
Austria-Hungary	36
Belgium	35
Brazil	2
Canada	294
Corea	1
Cuba	4
Denmark	11
England	500
Finland	1
France	122
Germany	291
Hawaii.....	2
India	2
Ireland.....	8
Italy	2
Japan	1
Luxemburg.....	1
Mexico	6
Netherlands	3
Newfoundland	1
New South Wales	5
New Zealand.....	9
Norway	6
Russia	11
Scotland	28
South Australia.....	2
Spain	2
Sweden	20
Switzerland.....	51
Syria.....	1
Turkey.....	3
Victoria.....	1
West Indies	1
Total	1,466

Comparative statement of the business of the Office from 1837 to 1887, inclusive.

Year.	Applica-tions.	Caveats filed.	Patents and re-issues.	Cash re-ceived.	Cash ex-pended.	Surplus.
1837.....	.....	.....	436	\$29,289 08	\$33,506 98	.....
1838.....	.....	.....	520	42,123 54	37,402 10	\$4,721 44
1839.....	.....	.....	325	37,260 00	34,543 51	2,716 49
1840.....	735	228	473	38,056 51	39,020 67	.....
1841.....	847	312	495	40,413 01	52,666 87	.....
1842.....	761	391	517	36,505 68	31,241 48	5,264 20
1843.....	819	315	510	35,315 81	30,776 96	4,538 85
1844.....	1,045	380	495	42,509 26	36,244 73	6,264 53
1845.....	1,246	452	504	51,076 14	39,395 65	11,680 49
1846.....	1,272	448	638	50,264 16	46,158 71	4,105 45
1847.....	1,531	553	569	63,111 19	41,878 35	21,232 84
1848.....	1,628	607	652	67,576 69	58,905 84	8,670 85
1849.....	1,955	595	1,068	80,752 98	77,716 44	3,036 54
1850.....	2,193	602	993	86,927 05	80,100 95	6,816 10
1851.....	2,258	760	872	95,738 61	86,916 93	8,821 68
1852.....	2,639	996	1,019	112,656 34	95,916 91	16,739 43
1853.....	2,673	901	961	121,527 45	132,869 83	.....
1854.....	3,328	868	1,844	163,789 84	167,146 32	.....
1855.....	4,435	906	2,012	216,459 35	179,540 33	36,919 02
1856.....	4,960	1,024	2,506	192,588 02	199,931 02	.....
1857.....	4,771	1,010	2,896	196,132 01	211,582 09	.....
1858.....	5,364	934	3,695	203,716 16	193,193 74	10,522 42
1859.....	6,225	1,097	4,504	245,942 15	210,278 41	35,663 74
1860.....	7,653	1,084	4,778	256,352 59	252,820 80	3,531 79
1861.....	4,643	700	3,329	137,354 44	221,491 91	.....
1862.....	5,038	824	3,532	215,754 99	182,810 39	32,944 60
1863.....	6,014	787	4,184	195,593 29	189,414 14	6,179 15
1864.....	6,932	1,063	5,025	240,919 78	229,868 00	11,051 98
1865.....	10,664	1,937	6,616	348,791 84	274,199 34	74,592 50
1866.....	15,269	2,723	9,458	495,665 38	361,724 28	133,941 10
1867.....	21,276	3,597	13,026	646,581 92	639,263 32	7,318 60
1868.....	20,420	3,705	13,410	681,565 86	628,679 77	52,886 09
1869.....	19,271	3,624	13,997	693,145 81	486,430 78	206,715 03
1870.....	19,171	3,273	13,333	669,456 76	557,149 19	112,307 57
1871.....	19,472	3,366	13,056	678,716 46	560,595 08	118,121 38
1872.....	18,246	3,090	13,613	699,726 39	665,591 36	34,135 03
1873.....	20,414	3,248	12,864	703,191 77	691,178 98	12,012 79
1874.....	21,602	3,181	13,599	738,278 17	679,288 41	58,989 76
1875.....	21,638	3,094	14,837	743,453 36	721,657 71	21,795 65
1876.....	21,425	2,697	15,595	757,987 65	652,542 60	105,445 05
1877.....	20,308	2,809	14,187	732,342 85	613,152 62	119,190 23
1878.....	20,260	2,755	13,444	725,375 55	593,082 89	132,292 66
1879.....	20,059	2,620	13,213	703,931 47	529,938 97	174,292 50
1880.....	23,012	2,490	13,947	749,685 32	538,865 17	210,820 15
1881.....	26,059	2,406	16,584	853,665 89	605,173 28	248,492 61
1882.....	31,522	2,553	19,267	1,009,219 45	683,867 67	325,351 78
1883.....	35,577	2,741	22,383	1,146,240 00	675,234 86	471,005 14
1884.....	35,600	2,582	20,413	1,075,798 80	970,579 76	105,219 04
1885.....	35,717	2,552	24,233	1,188,098 15	1,024,378 85	163,710 30
1886.....	35,968	2,513	22,508	1,154,551 40	992,503 40	162,047 95
1887.....	35,613	2,622	21,477	1,144,509 60	994,472 22	150,037 38

Statement showing the number of the first patent, design patent, and reissued patent, and the number of the first certificate of registration of a trade-mark and a label issued in each calendar year since July 28, 1836, when the present series of numbers of letters patent commenced, together with the total number of each issued during the year.

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Year.	Number of first patent and certificate issued in each calendar year.					Number of patents and certificates of registration issued during each calendar year.						
	Patents.	Designs.	Reissues.	Trade-marks.	Labels.	Patents.	Designs.	Reissues.	Total patents.	Trade-marks.	Labels.	Total certificates.
1836 (July 28)	1					109						
1837	110					436						
1838	546		1			415		6				
1839	1,061		7			404		13				
1840	1,465		20			458		10				
1841	1,923		30			490		6				
1842	2,413		36			488		13				
1843	2,901	1	49			494	14	11	519			
1844	3,395	15	60			477	12	7	496			
1845	3,872	27	67			476	17	11	504			
1846	4,348	44	78			566	59	13	638			
1847	4,914	103	91			495	60	14	569			
1848	5,409	163	105			583	46	23	652			
1849	5,992	209	128			989	49	30	1,068			
1850	6,981	258	158			884	83	26	993			
1851	7,865	341	184			757	90	25	872			
1852	8,622	432	209			890	109	20	1,019			
1853	9,512	540	229			846	86	29	961			
1854	10,358	626	258			1,759	57	28	1,844			
1855	12,117	683	286			1,891	70	51	2,012			
1856	14,008	753	337			2,316	107	83	2,506			
1857	16,324	860	420			2,686	113	97	2,896			
1858	19,010	973	517			3,467	142	126	3,695			
1859	22,477	1,057	643			4,165	108	231	4,504			
1860	26,642	1,183	874			4,363	183	232	4,778			
1861	31,005	1,366	1,106			3,040	142	147	3,329			
1862	34,045	1,508	1,253			3,221	195	116	3,532			
1863	37,266	4,703	1,369			3,781	176	227	4,184			
1864	41,047	1,879	1,596			3,638	139	248	5,025			
1865	45,685	2,018	1,844			6,099	221	296	6,616			
1866	51,784	2,239	2,140			8,874	294	490	9,458			
1867	60,658	2,533	2,430			12,201	325	400	13,026			
1868	72,959	2,858	2,830			12,544	446	420	13,410			
1869	85,503	3,304	3,250			12,957	506	534	13,997			
1870	98,460	3,810	3,784	1		12,157	737	439	13,333	121		121
1871	110,617	4,547	4,223	122		11,687	905	464	13,056	486		486
1872	122,304	5,442	4,687	608		12,200	884	529	13,613	491		491
1873	134,504	6,336	5,216	1,099		11,616	747	501	12,864	492		492
1874	146,120	7,083	5,717	1,591	1	12,230	886	483	13,599	559	232	791
1875	158,350	7,969	6,200	2,150	233	13,291	915	631	14,837	1,138	232	1,370
1876	171,641	8,884	6,831	3,288	465	14,172	802	621	15,595	959	472	1,431
1877	185,813	9,686	7,452	4,247	937	12,920	699	568	14,187	1,216	392	1,608
1878	198,733	10,385	8,920	5,463	1,329	12,345	590	509	13,444	1,455	492	1,947
1879	211,078	10,975	8,529	6,918	1,821	12,133	592	488	13,213	872	355	1,227
1880	223,211	11,567	9,017	7,790	2,176	12,926	515	506	13,947	349	203	552
1881	236,137	12,082	9,523	8,139	2,379	25,548	565	471	16,584	836	202	1,038
1882	251,685	12,647	9,994	8,973	2,581	18,135	861	271	19,267	947	304	1,251
1883	269,820	13,508	10,265	9,920	2,885	21,196	1,020	167	22,383	902	906	1,308
1884	291,016	14,528	10,432	10,822	3,791	19,147	1,150	116	20,413	1,021	513	1,534
1885	310,163	15,678	10,548	11,843	4,304	23,331	773	129	24,233	1,067	391	1,458
1886	333,494	16,451	10,677	12,910	4,695	21,797	595	116	22,508	1,029	378	1,407
1887	355,291	17,046	10,793	13,939	5,073	20,429	949	99	21,477	1,133	380	1,513
1888	375,720	17,995	10,892	15,072	5,453							

Herewith accompanying this report are lists or indexes, arranged in monthly, quarterly, and yearly form, of all patents granted during the calendar year of 1887, properly classified under subjects of invention; alphabetical lists of all patentees, with their

places of residence, and a list containing all patents extended during the year.

Very respectfully, your obedient servant,

(Signed)

BENTON J. HALL,
Commissioner.

ALPHABETICAL LIST

OF

PATENTEEES FOR THE YEAR 1887.

[Patentees of Designs, Trade Marks, and Labels, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Specification.	Drawing.	Volume.	Page.
Aab, George, and S. K. Campbell, Philadelphia, Pa. Extracting paraffine or other bodies from petroleum	369,902	Sept. 13	831	220	40	1201
Abbe, Charles C., New York, N. Y. Seal-press.....	366,193	July 5	600	162	40	114
Abbe, Richard W. F., New York, N. Y. Recording-compass and marine indicator	363,039	May 17	1385	{ 366 367 }	{ 39 }	745
Abbett, Leon. (See White, Lewis B., assignor.)						
Abbot, Isaac A., Denver, Colo. Scissors-sharpener	372,886	Nov. 8	914	247	41	648
Abbott, Arthur H. (See Newell, George H., assignor.)						
Abbott, David S., Olean, N. Y. Feeding device for circular sawing machines	362,921	May 17	1217	325	39	713
Abbott, Frank, New York, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental plugger.....	368,179	Aug. 16	1219	327	40	699
Abbott, George L., Corning, N. Y. Globe for electric lamps.....	365,498	June 28	1888	492	39	1469
Abbott, John, Blackheath, county of Kent, England. Machine for bending rails, &c.....	365,325	June 21	1630	425	39	1407
Abbott, John M., Silver Plume, Colo. School-desk	364,460	June 7	364	100	39	1157
Abbott, Johnathan P. (See Trissler, William H., assignor.)						
Abbott, Lycurgus L. (See Lane and Acheson, assignors.)						
Abbott, Nathaniel B., Brooklyn, N. Y. Machine for wiring corks in bottles.....	369,763	Sept. 13	613	{ 165 166 }	{ 40 }	1159
Abbott, Noel, assignor of one-half to P. R. Scarr, Kansas City, Mo. Grip apparatus for cable railways	363,788	May 31	2443	635	39	965
Abbott, Paschal J., Dexter, assignor, by mesne assignments, to himself and W. M. Jordan, Portland, Me. Lifting-jack	359,486	Mar. 15	1535	393	38	1201
Abbott, Solon, Biddeford, Me. Damper-handle	369,309	Sept. 6	1	1	40	1035
Abbott, Warren M., Philadelphia, Pa. Vapor-burner.....	373,874	Nov. 29	2400	644	41	955
Abbott, William W., New Haven, Conn. Sash-fastener	374,108	Nov. 29	2735	734	41	1022
Abdank-Abakanowicz, Bruno. (See Deprez and Abdank-Abakanowicz.)						
Abell, John J., and C. B. Gifford, Colesburg, Ky. Primary electric clock.....	360,078	Mar. 29	2503	{ 636 637 }	{ 38 }	1400
Abendroth Brothers. (See Foran, John, assignor.)						
Abendroth, William P., Port Chester, N. Y. Cooking attachment for ranges	370,228	Sept. 20	1322	{ 352 353 }	{ 40 }	1298
Abercrombie, Alexander V. (See Brooks, Abercrombie, and Houghton.)						
Aberle, Oscar. (See Davis and Aberle.)						
Abney, Diton H., Pilot Grove, Mo. Device for setting ruby-pins in watches	371,019	Oct. 4	417	105	41	83
Aborn, Johan W., and J. Landin, Stockholm, Sweden. Tanning by electricity	368,745	Aug. 23	2032	.....	40	864
Abraham, Albert. (See Lubin, Frawley, and Abraham.)						
Abraham, John D., <i>et al.</i> (See Malcolm, Robert J., assignor.)						
Abrahamson, Peter, San Francisco, Cal. Window or door ventilator	355,904	Jan. 11	870	228	38	176
Abrams, Annie. (See Samuels, Marks, assignor.)						
Abrams, George H., assignor of one-fourth to L. V. C. Naul, Brooklyn, N. Y. Shirt.....	372,781	Nov. 8	747	202	41	619
Abrams, William R., Ellensburg, Wash. Ter. Sash-fastener.....	362,239	May 3	247	70	39	521
Abrams, William R., Ellensburg, Wash. Ter. Sash-fastener.....	370,229	Sept. 20	1323	353	40	1298
Abramson, Alfred C., assignor to Excelsior Furniture Company, Rockford, Ill. Lounge ..	365,326	June 21	1631	425	39	1408
Acheson, Charles S. (See Lane and Acheson.)						
Acheson, Edward G., Pittsburg, Pa. Thermo-electric generator.....	375,242	Dec. 20	1546	405	41	1363
Acheson, Edward G., Pittsburg, Pa. Thermo-electric generator.....	375,243	Dec. 20	1547	406	41	1363
Acheson, Edward G., Pittsburg, Pa. Calelectric generator	375,408	Dec. 27	1767	463	41	1414
Achor, Servetus T., Brooklyn, N. Y. Adjustable partition for boxes	374,920	Dec. 20	1091	285	41	1277
Ackerman, John, and J. C. Blair, Columbus, Ohio; said Blair assignor to said Ackerman. Saw-mill dog.....	365,661	June 28	2142	559	39	1518
Ackermann, Christian W., Streator, Ill. Chimney-cowl.....	357,355	Feb. 8	880	231	38	593
Ackley, Joseph H. Louisville, Ky. Spring-mattress.....	373,711	Nov. 22	2168	580	41	904
Acly, Charles H. (See Weller and Acly.)						
Acme Dust Collector and Wheat Cleaning Company. (See Smith, John S., assignor.)						
Acme Liquid Fuel Company. (See Roberts, James, assignor.)						
Acme Manufacturing Company. (See Shamp, George W., assignor.)						
Actiengesellschaft für Anilin Fabrikation <i>et al.</i> (See Bender and Schultz, assignors.)						
Actiengesellschaft für Anilin Fabrikation. (See Böttiger, Paul, assignor.)						
Adair, Addison A., <i>et al.</i> (See Byrkit, Edwin M., assignor.)						
Adair, Irvine J., assignor of one-third to E. J. Gannon, Dallas, Tex. Book-adjuster.....	357,543	Feb. 8	1160	304	38	647
Adair, Irvine J., assignor of one-half to E. J. Gannon, Dallas, Tex. Copy-holder.....	367,574	Aug. 2	320	92	40	512
Adair, William, Leesville, Ohio. Nut-lock.....	370,588	Sept. 27	1860	494	40	1405
Adam, Frederick E., Baltimore, Md. Hot-air furnace	371,020	Oct. 4	419	105	41	84

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Adam, Guillaume, Cookshire, Quebec, assignor of one-half to J. Adam, Montreal, Canada. Shingle-beveling machine.....	368,268	Aug. 16	1359	358	40	725
Adam, Joseph. (See Adam, Guillaume, assignor.)						
Adam, Samuel F., Middletown, Conn. Watch for the blind.....	360,641	Apr. 5	354	88	39	67
Adam, William C., Buffalo, N. Y. Combined latch and lock.....	359,760	Mar. 22	1982	501	38	1298
Adam, William J., Joliet, Ill. Stay for wire fences.....	373,917	Nov. 29	2462	661	41	967
Adamanta Manufacturing Company. (See Kissel, Albert, assignor.)						
Adams, Andrew H., assignor of one-half to L. B. Hubbard, Clio, S. C. Sash-fastener.....	362,866	May 10	1130	304	39	690
Adams, Arthur F., Little Rock, Ark. Call-register for telephones.....	372,247	Oct. 25	2190	562	41	451
Adams, Caleb C., Brooklyn, N. Y. Night-clock.....	362,140	May 3	120	36	39	496
Adams, Charles A., Syracuse, N. Y. Vehicle-spring.....	360,839	Apr. 12	629	167	39	125
Adams, Charles F., Riga, N. Y. Twine holder and cutter for grain-binders.....	362,696	May 10	896	244	39	648
Adams, Charles H., New York, N. Y. Blinder attachment for bridles.....	368,365	Aug. 16	1486	396	40	751
Adams, Charles M., Providence, R. I. Mechanical pin-case.....	366,059	July 5	424	115	40	80
Adams, David J. (See Eastman and Adams.)						
Adams, Dewey F., Providence, R. I. Back and front of articles of jewelry.....	358,242	Feb. 22	2172	573	38	848
Adams, Edward S. (See Schroder and Adams.)						
Adams, Elmon A., assignor of one-half to F. W. Evans, Washington, D. C. Dry-wall brick.....	372,007	Oct. 25	1819	471	41	383
Adams, Frederick T., Derby, county of Derby, England. Rotary pump, motor, blower, or exhauster.....	374,331	Dec. 6	229	61	41	1089
Adams, George, Ansonia, Conn. Revolving and tilting mold for casting tubes.....	368,746	Aug. 23	2033	538	40	864
Adams, George B., assignor to Adams Manufacturing Company, Newark, N. J. Cuff-button.....	360,368	Mar. 29	2941	747	38	1480
Adams, George B., Newark, N. J., assignor to Eagle Pencil Company, New York, N. Y. Rubber-tip attachment for pencils or other articles.....	368,440	Aug. 16	1596	426	40	772
Adams, George D., Newburyport, and W. L. Barrell, Lawrence, Mass. Insole for boots or shoes.....	371,657	Oct. 18	1298	336	41	272
Adams, George E., Providence, R. I. Cuff-holder.....	357,167	Feb. 8	635	165	38	547
Adams, George E., Providence, R. I. Button or stud.....	373,041	Nov. 15	1153	309	41	701
Adams, George F. (See Spalding and Adams.)						
Adams, George G., Lawrence, Mass. Device for raising and lowering floors of theaters and halls.....	366,290	July 12	737	200	40	147
Adams, George H., Lewis, Iowa. Rack.....	356,520	Jan. 25	1751	456	38	357
Adams, George J. (See Goodhue, Wells, assignor.)						
Adams, George N., Olean, N. Y. Vehicle-wheel lock.....	365,559	June 28	1992	519	39	1491
Adams, Hawley, New York, N. Y. Smoke-consuming furnace.....	364,745	June 14	759	201	39	1239
Adams, Henry, Rockville, Conn. Finishing mixture for cotton yarn.....	365,957	July 5	288	.....	40	55
Adams, Henry P., assignor to J. N. Brady and R. C. Blackall, Albany, N. Y. Metallic railway tie and chair.....	361,199	Apr. 12	1173	296	39	222
Adams, Hiram R., Boston, Mass. Method of and apparatus for ventilating railway-cars.....	359,761	Mar. 22	1984	502	38	1298
Adams, Hugh, Pattersonville, La. Ditching-plow.....	359,196	Mar. 8	1108	289	38	1115
Adams, Isaac W., West Le Roy, Mich. Straw-elevator.....	374,723	Dec. 13	791	208	41	1210
Adams, James A., Atlanta, Ga. Machine for making excelsior.....	359,657	Mar. 22	1820	463	38	1270
Adams, James A., Atlanta, Ga. Cut-off for water-supply pipes.....	374,162	Dec. 6	1	1	41	1047
Adams, James W., Chicago, Ill. Bolt-threading machine.....	357,300	Feb. 8	812	211	38	581
Adams, John. (See Stockham and Adams.)						
Adams, John, assignor of one-half to J. J. and W. H. Glazier and G. R. Repplier, Philadelphia, Pa. Circular-knitting machine.....	362,411	May 3	475	{ 131 132 133 134 135 790 791 792 793 794 }	{ 39 }	567
Adams, John, assignor of one-half to J. J. and W. H. Glazier and G. R. Repplier, Philadelphia, Pa. Circular-knitting machine.....	364,201	May 31	3039	{ 790 791 792 793 794 }	{ 39 }	1077
Adams, John F., New York, N. Y. Show-card.....	362,050	May 3	1	1	39	473
Adams, John G. B. (See Buffum, Herbert H., assignor.)						
Adams, John Q., Marseilles, Ill. Pump-head.....	357,750	Feb. 15	1482	389	38	715
Adams, John Q., Marseilles, Ill. Windmill.....	357,751	Feb. 15	1484	389	38	715
Adams, John R., Houston, and J. J. Ryan, San Antonio, Tex. Air-compressor for deep-well pumps.....	367,575	Aug. 2	321	92	40	513
Adams, John T., et al. (See Slaton, Clifton H., assignor.)						
Adams, John T., Bellaire, Ohio. Batch for making glass.....	360,840	Apr. 12	630	.....	39	125
Adams, Joseph D., Marshall, Ind., and F. M. Pennock, Kennett Square, Pa. Road-grader.....	370,589	Sept. 27	1861	494	40	1405
Adams Manufacturing Company. (See Adams, George B., assignor.)						
Adams, Mary L. W., Nashotah, Wis. Griddle-greaser.....	372,648	Nov. 8	543	149	41	583
Adams, Matthew R. (See Adams, Robert and M. R.)						
Adams, Oliver, Larchmont, N. Y. Steering-gear for ships, &c.....	370,844	Oct. 4	140	38	41	28
Adams, Peter. (See Shepard and Adams.)						
Adams, Robert and M. R., Sterling, Ill. Cultivator.....	363,571	May 24	2131	552	39	899
Adams, Robert B., Hatchchubbee, Ala. Tether.....	374,646	Dec. 13	685	180	41	1189
Adams, Robert J., Republic, Kans. Graining compound.....	369,220	Aug. 30	2686	.....	40	1000
Adams, S. Jarvis, Pittsburg, Pa. Tube-welding ball.....	361,565	Apr. 19	1667	432	39	327
Adams, S. Jarvis, Pittsburg, Pa. Tube-welding ball.....	361,566	Apr. 19	1671	432	39	327
Adams, S. Jarvis, Pittsburg, Pa. Tube-welding ball.....	361,567	Apr. 19	1674	433	39	328
Adams, S. Jarvis, Pittsburg, Pa. Tube-welding ball.....	361,568	Apr. 19	1676	433	39	328
Adams, S. Jarvis, Pittsburg, Pa. Tube-welding ball.....	361,569	Apr. 19	1677	433	39	328
Adams, S. Jarvis, Pittsburg, Pa. Sand-molding machine.....	374,031	Nov. 29	2619	703	41	998
Adams, S. Jarvis, Pittsburg, Pa. Sand-molding machine.....	374,163	Dec. 6	2	1	41	1047
Adams, Thomas. (See Snyder and Hufty, assignors.)						
Adams, Thomas E., Cleveland, Ohio. Insulating-clamp for electric conductors.....	371,161	Oct. 11	613	157	41	129
Adams, W. Irving, Montclair, N. J., assignor to Scovill Manufacturing Company, New York, N. Y. Photographic camera.....	357,752	Feb. 15	1486	389	38	716
Adams & Westlake Manufacturing Company. (See Hubbard, Frederick J., assignor.)						
Adams & Westlake Manufacturing Company of Michigan. (See Bielefeld, Frank G., assignor.)						
Adams & Westlake Manufacturing Company of Michigan. (See Kelly and Zimmerman, assignors.)						
Adams & Westlake Manufacturing Company of Michigan. (See Willits and Duburn, assignors.)						
Adams, William, Ansonia, Conn. Mold for casting brass.....	367,774	Aug. 9	643	173	40	581
Adams, William E., Lynn, Mass., assignor to Tyler Bradford Machine Company, Kittery, Me. Leather-splitting machine.....	362,412	May 3	481	136	39	568

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Adams, William F., Buffalo, N. Y. Whiffletree-coupling	370,590	Sept. 27	1863	495	40	1405
Adams, William R., Omaha, Nebr. Curry-comb	375,114	Dec. 20	1380	358	41	1329
Adcock, Edmund, <i>et al.</i> (See Hill, Christian C., assignor.)						
Addaman, Edward M., Jersey City, N. J. Folding table for paper-hangers	375,523	Dec. 27	1918	503	41	1444
Addax Basting Machine Company. (See Warren, Benjamin F., assignor.)						
Addicks, William H., assignor of one-half to J. B. Taylor, Philadelphia, Pa. Velocipede ..	357,138	Feb. 1	586	{ 150 151 }	{ 38 }	529
Addis, Henry C., Council Bluffs, Iowa. Windmill-tower	364,077	May 31	2854	740	39	1042
Addison, John and W., Hamilton, Ontario, Canada. Clothes-mangle	369,675	Sept. 13	507	141	40	1141
Addison, William. (See Addison, John and W.)						
Addoms, Phebe R., Brooklyn, N. Y. Ventilator	362,051	May 3	2	1	39	473
Addy, Charles J., Malden, Mass., assignor to Tapley Machine Company, Portland, Me. Burnishing-machine	356,911	Feb. 1	235	65	38	465
Addy, Charles J., Malden, assignor to Tapley Machine Company, Portland, Me. Boot or shoe holding jack	362,347	May 3	383	106	39	549
Adelson, Philip, and L. Proll, San Francisco, Cal. Reversible window-sash	355,905	Jan. 11	871	228	38	177
Adelsperger, Charles C., assignor of two-thirds to S. J. Kuqua and F. Rightmyer, Springfield, Ohio. Shifting seat for vehicles	367,884	Aug. 9	797	215	40	611
Aderson, C. Gustaf, Hartford, Conn. Incandescent electric lamp	365,499	June 28	1888	492	39	1469
Adler, Abraham S., Baltimore, Md. Shoe-maker's measure	365,221	June 21	1470	388	39	1379
Adler, Christian. (See Einbigler, Rudolf, assignor.)						
Adler, Max, assignor to Mayer, Strouse & Co., New Haven, Conn. Corset	357,356	Feb. 8	880	231	38	593
Adler, Max, assignor to Mayer, Strouse & Co., New Haven, Conn. Corset	371,725	Oct. 18	1410	365	41	295
Adler, Solomon, San Francisco, Cal. Conductor's time or transfer punch	362,240	May 3	247	70	39	521
Adrian, Benjamin, Brooklyn, assignor to W. C. Van Vleit, New York, N. Y. Wiring corks in bottles	364,202	June 7	1	1, 2	39	1089
Adt, John, New Haven, Conn. Machine for making wire box and cover fasteners	356,298	Jan. 18	1433	377	38	290
Adt, John, New Haven, Conn. Machine for automatically forming rings from wire	359,416	Mar. 15	1434	{ 366 367 }	{ 38 }	1182
Adt, John, New Haven, Conn. Machine for finishing cotter-pins	374,136	Nov. 29	2775	746	41	1028
Adt, Leo F., Waterbury, Conn. Vignette attachment for photographic frames	357,886	Feb. 15	1667	573	38	750
Adt, Leo F., Waterbury, Conn. Paper-clip	358,243	Feb. 22	2173	257	38	848
Adt, Leo F., Waterbury, Conn. Rubbing-down device for mounting photographs	364,882	June 14	979	434	39	1278
Adt, Leo F., Waterbury, Conn. Photographic-printing frame	366,060	July 5	425	116	40	81
Adwen, Joseph H., Rochester, N. Y. Strainer	365,560	June 28	1993	519	39	1491
Ady, Nathaniel J., and J. W. Haith, Rockport, Mo. Cultivator beam and point	355,906	Jan. 11	872	228	38	177
Affleck, John A. (See Freed and Affleck.)						
Agnew, Robert M. (See Linham and Agnew.)						
Ahlberg, Peter, Detroit, Mich. Smoke-consuming furnace	367,018	July 26	1725	465	40	351
Ahlstrom, Charles A., Jamestown, N. Y. Stringed musical instrument	356,971	Feb. 1	318	86	38	482
Ahlstrom, Gustave H. (See Pritchard and Ahlstrom.)						
Ahrbecker, Henry C., Stamford Street, county of Surrey, England. Piston water-meter ..	363,973	May 31	2722	705	39	1016
Aiken, Henry. (See Park, Aiken, and Lash.)						
Aiken, Henry, Homestead, Pa. Cooling metal plates	369,154	Aug. 30	2603	691	40	984
Aiken, William A. (See Tracy, Edwin A., assignor.)						
Aiken, William A., Norwich, Conn. Display-frame	374,724	Dec. 13	793	208	41	1210
Aiken, William A., and C. W. Huntington, Norwich, Conn.; said Huntington assignor to said Aiken. Display-frame	368,367	Aug. 16	1489	396	40	752
Aikin, John T., Purdy, Mo. Knockdown crate	368,801	Aug. 23	2108	558	40	877
Ainsworth, Henry A., assignor to Williams, White & Co., Moline, Ill. Drop-hammer	363,351	May 24	1809	475	39	837
Ainsworth, Phineas H., Caney, Tex. Wire-stretcher	358,138	Feb. 22	2032	534	38	821
Ajax Forge Company. (See Griffin, Thomas A., assignor.)						
Akarman, John N., Worcester, Mass. Reversible sign	360,503	Apr. 5	153	38	39	29
Akers, George D. (See Sargeant, Alexander, Jr., assignor.)						
Akers, John M. (See Heston and Akers.)						
Akron Locating Machine Company. (See Keavy, Thomas E., assignor.)						
Aktiebolaget Hastskyddare. (See Sidén, Johan T. B., assignor.)						
Aktiebolaget Palmerantz & Co. (See Jansson, John, assignor.)						
Albach, William H. (See Barr, Samuel W., assignor.)						
Albany Hardware Manufacturing Company. (See Dickson, Gilbert J., assignor.)						
Albee, George, Susquehanna, Pa. Extension-ladder	364,461	June 7	366	100	39	1157
Albee, Henry L., Boston, Mass. Folding bedstead	358,101	Feb. 22	1967	{ 519 520 }	{ 38 }	810
Albee, William H., and W. H. Pettys, New York, N. Y. Hose-coupling	362,697	May 10	899	244	39	648
Albert, Henry, Crescent City, Cal. Elevator	360,504	Apr. 5	154	38, 39	39	29
Albert, Hugh M., Dayton, Ohio. Paper box or basket	355,496	Jan. 4	262	69	38	53
Albertson, Benjamin. (See Briggs, Edwin F., assignor.)						
Albertson, Joseph, San Francisco, Cal. Corn and cane cutter	366,291	July 12	738	200	40	147
Albertson, Silas W., Roslyn, N. Y. Automatic wagon-brake	373,548	Nov. 22	1938	513	41	858
Albertson, Silas W., Roslyn, N. Y. Brake for vehicles	374,230	Dec. 6	85	21	41	1063
Albes, Theodore. (See Treacy, Laurence J., assignor.)						
Albrecht, Albert. (See Steele, Joseph, assignor.)						
Albrecht, Henry, Moline, Ill. Grain-meter	363,499	May 24	2027	528	39	880
Albrecht, Henry R., Moline, Ill. Grain-meter	367,775	Aug. 9	644	173	40	581
Albrecht, Johannes, Cannstadt, Württemberg, Germany. Machine for sewing boots or shoes ..	375,244	Dec. 20	1549	{ 406 407 }	{ 41 }	1363
Albrecht, John C., Columbus, Ga. Spark-arrester	357,357	Feb. 8	881	{ 231 232 }	{ 38 }	594
Albright, Andrew. (See Ghegan, John J., assignor.)						
Albright, John W., assignor of one-half to J. L. Scholl, Burlington, Iowa. Sweat-pad fastener ..	362,348	May 3	384	106	39	549
Albright, Joseph J., Fostoria, Ohio. Sliding gate	374,647	Dec. 13	686	181	41	1189
Albright, Samuel, assignor to W. Albright, Nevada, Mo. Earth-auger	357,544	Feb. 8	1161	304	38	647
Albright, William. (See Albright, Samuel, assignor.)						
Albright, William L., Chattanooga, Tenn. Car-coupling	356,972	Feb. 1	320	87	38	482
Albro, James W., Hartford, Conn. Shelf-bracket	358,766	Mar. 1	503	{ 123 124 }	{ 38 }	997
Alcott Buckle Company. (See Alcott, Edward H., assignor.)						
Alcott, Edward H., Chicago, Ill. Shoe-lace fastener	369,151	Aug. 30	2599	690	40	983
Alcott, Edward H., assignor to Alcott Buckle Company, Chicago, Ill. Shoe-buckle	369,152	Aug. 30	2600	691	40	983
Alden, Charles E., Philadelphia, Pa. Adjustable gear	369,221	Aug. 30	2687	713	40	1000
Alden, De Witt C., Bath, N. Y. Handcuff	372,836	Nov. 8	842	224	41	635
Alden, Horace A., and J. E. Kirk, Peoria, Ill. Horse hay-rake	355,674	Jan. 11	519	137	38	111
Alden, Rinaldo, Chicago, Ill. Organ-stop knob	369,310	Sept. 6	1	1	40	1035

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Alden, Rinaldo, Chicago, Ill. Organ-stop knob	372,649	Nov. 8	543	149	41	583
Alden Type Machine Company. (See Johnson, Louis K., assignor.)						
Alden Type Machine Company. (See Johnson and Low, assignors.)						
Alden Type Machine Company. (See Low, A. Augustus, assignor.)						
Alden, William B., Brooklyn, N. Y. Making tubes	367,494	Aug. 2	205	57	40	491
Alden, William B., Brooklyn, N. Y. Machine for making spirally-jointed metal tubes	375,435	Dec. 27	1805	{ 472 473 }	{ 41 41 }	{ 1421 1421 }
Alderman, Elbert E., Portville, N. Y. Advertising device	367,946	Aug. 9	890	241	40	628
Alderman, Frank R., Detroit, Mich. File-case	361,852	Apr. 26	2103	545	39	414
Alderson, George, La Salle, Ill. Bag-tie	362,349	May 3	385	106	39	549
Aldred, Frederick. (See Aldred, Robert and F.)						
Aldred, Robert and F. Glencoe, Ontario, Canada. Harvester-binder	365,561	June 28	1995	{ 520 521 }	{ 39 39 }	{ 1491 1491 }
Aldrich, Frank, Washington, D. C. Kitchen-bracket	373,002	Nov. 8	1085	{ 289 290 }	{ 41 41 }	{ 679 679 }
Aldrich, George W., assignor to himself and W. Green, Brooklyn, N. Y. Faucet	374,725	Dec. 13	794	208	41	1211
Aldrich, James T., Norwich, Conn. Machine for punching checks	367,691	Aug. 2	502	{ 138 139 }	{ 40 40 }	{ 545 545 }
Aldrich, Roscoe H., assignor to Goulds Manufacturing Company, Seneca Falls, N. Y. Pump	374,332	Dec. 6	230	61	41	1089
Alexander, Cornelius C., Hartford City, Ind. Tool for twisting wires	358,715	Mar. 1	441	107	38	986
Alexander, David R., <i>et al.</i> (See Place, John H., assignor.)						
Alexander, Henry D. (See Phillips and Alexander.)						
Alexander, Henry D., assignor of one-half to E. S. Eckis, Canton, Ohio. Fork	368,503	Aug. 16	1695	451	40	790
Alexander, James G., Iliia, Mo., assignor of one-half to W. E. Bracewell, Lineville, Iowa. Horse hay-rake	358,102	Feb. 22	1969	520	38	810
Alexander, James H., Syracuse, assignor to E. M. Chafee, Onondaga Valley, N. Y. Mallet	356,299	Jan. 18	1436	378	38	290
Alexander, John, Hartford, Conn. Harness-terret	373,631	Nov. 22	2056	548	41	881
Alexander, John F., Washington, D. C. Making malleable iron and steel directly from cast-iron	368,504	Aug. 16	1695	452	40	790
Alexander, John T., Letart Falls, Ohio. Wire-stretcher	363,191	May 17	1597	419	39	787
Alexander, Jonah S. (See Crist, John, assignor.)						
Alexander, Solomon A., York, Pa. Car-coupling	369,382	Sept. 6	102	31	40	1053
Alexander, Thomas S., Meriden, Conn. Harness-loop	356,912	Feb. 1	237	65	38	465
Alexander, Thomas S., assignor of one-half to S. A. Hall, Meriden, Conn. Hame and ring therefor	371,726	Oct. 18	1411	365	41	295
Alexander, Tony, Bogue Chitto, Miss. Locomotive attachment	368,366	Aug. 16	1487	396	40	751
Alexander, Tony, Bogue Chitto, Miss. Game-trap	371,727	Oct. 18	1412	365	41	296
Alexander, Tony, Bogue Chitto, Miss. Animal-trap	371,728	Oct. 18	1413	365	41	296
Alexander, William S., West Troy, N. Y. Apparatus for dyeing wool-tops	375,591	Dec. 27	2022	525	41	1462
Alexis-Godillot, Georges, Paris, France. Mechanical feeder for furnaces	363,953	May 31	2693	697	39	1009
Alford, John M., Floral College, N. C. Portable railway-switch	370,754	Oct. 4	1	1	41	3
Algeo, William G., assignor to Hartman Steel Company, (limited,) Beaver Falls, Pa. Wire nail and die for pointing the same	371,162	Oct. 11	615	157	41	129
Algie, Benjamin C., Ogdensburg, N. Y. Store-service apparatus	356,341	Jan. 18	1501	394	38	302
Algoever, Augustus, New York, N. Y. Clarifying cider and other expressed juices	358,320	Feb. 22	2277		38	869
Alkins, Charles, assignor to H. Alkins, Chicago, Ill. Rail-brace	365,222	June 21	1472	388	39	1379
Alkins, Henrietta. (See Alkins, Charles, assignor.)						
Allen, James, Buffalo, N. Y. Spring-bed	363,878	May 31	2570	667	39	988
Allan, John M., Lakewood, N. J. Medicated cigar or cigarette	372,782	Nov. 8	750	202	41	619
Allan, John M., Lakewood, assignor of two-thirds to B. F. Lee, Trenton, and A. J. Sear- ing, Monmouth, N. J. Automatic railway-crossing signal	368,368	Aug. 16	1490	397	40	752
Allan, John M., Lakewood, assignor of two-thirds to B. F. Lee, Trenton, and A. J. Sear- ing, Monmouth, N. J. Device for automatically operating railway-signals	368,369	Aug. 16	1491	398	40	752
Allan, William R., Pittston, Pa. Step-ladder	369,491	Sept. 6	240	68	40	1079
Allan, William R., assignor to himself and W. L. Watson, Pittston, Pa. Weather-strip	361,915	Apr. 26	2192	568	39	431
Allderdice, Winslow, assignor to Warren Tube Company, Warren, Ohio. Preparing tubes for drawing	359,703	Mar. 22	1889	479	38	1283
Allegretti, Ignazio, West Berkeley, Cal. Refrigerator	370,591	Sept. 27	1864	495	40	1406
Allegretti, Ignazio, West Berkeley, Cal. Ventilator for buildings	370,592	Sept. 27	1865	495	40	1406
Allen, Albert H. (See O'Connor, Jeremiah J. and J. A., assignors.)						
Allen, Alton A., Fall River, Mass. Harness-pad	356,435	Jan. 25	1635	429	38	335
Allen, Alvin D., Syracuse, N. Y. Handle for coffins, &c.	356,184	Jan. 18	1273	336	38	258
Allen, Augustus L., Poughkeepsie, N. Y. Apparatus for the manufacture of gas	356,863	Feb. 1	168	45	38	453
Allen, Benjamin E., Norwalk, Conn. Device for laying off base-ball grounds and tennis- courts	370,593	Sept. 27	1866	495	40	1406
Allen, C. H., <i>et al.</i> (See Ober, Oliver, assignor.)						
Allen, Carlos L., <i>et al.</i> (See Gregory, James, assignor.)						
Allen, Charles. (See Sibley and Allen.)						
Allen, Charles F., Bradford, Pa. Strap-buckle	362,595	May 10	744	206	39	618
Allen, Charles H. (See Cameron and Allen.)						
Allen, Charles J. (See Koch, Eberhard, assignor.)						
Allen, Charles P., Denver, Colo. Wooden pipe	359,590	Mar. 22	1733	441	38	1253
Allen, Clarence E., and I. D. Hatch, Swanton, Vt.; said Hatch assignor to said Allen. Ad- justable chair	365,720	June 28	2229	580	39	1533
Allen, Clinton L. (See Morrison and Allen.)						
Allen, Cotton H., St. Louis, Mo. Clip for rope traces	368,867	Aug. 23	2198	584	40	896
Allen, Eben S. (See Hofele, Ferdinand W., assignor.)						
Allen, Edgar, and D. S. Henrie, Three Rivers, Mich. Drilling-machine	357,807	Feb. 15	1559	406	38	729
Allen, Edward B., Portland, Me., assignor to J. W. Brooks, trustee, Cambridge, Mass. Machine for assorting nails	374,387	Dec. 6	306	81	41	1104
Allen, Edward B., Portland, Me., assignor to J. W. Brooks, trustee, Cambridge, Mass. Burnishing-machine	374,885	Dec. 13	1022	267	41	1255
Allen, Edward C. (See Bates, Solomon W., assignor.)						
Allen, Elnathan W., Belle Plaine, Kans. Sash-fastener	361,109	Apr. 12	1024	259	39	196
Allen, Eugene E., Grand Rapids, Mich. Instrument for transfusion of blood	365,327	June 21	1632	426	39	1408
Allen, Frank H., New River, La. Inkstand	358,244	Feb. 22	2174	573	38	849
Allen, Frank H., Norwich, assignor to A. Kingsbury, South Coventry, Conn. Machine for cutting and scoring paper-box blanks	358,955	Mar. 8	796	{ 201 202 }	{ 38 38 }	{ 1056 1056 }
Allen, George A., Madison, N. J. Cistern	367,576	Aug. 2	322	92	40	513
Allen, George H., <i>et al.</i> (See Tonns, Lewis N., assignor.)						
Allen, George O., Montville, Conn. Wire-stretching implement	364,564	June 7	511	137	39	1184
Allen, Isaac L., assignor to himself and T. B. Allen, Brooklyn, N. Y. Bobbin-catch for spinning-machines	373,261	Nov. 15	1483	392	41	762

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Allen, James A. (See Murphy, John, assignor.)						
Allen, John W., Lenoir, N. C. Plow.....	357,443	Feb. 8	1001	{ 264 265	{ 38	616
Allen, Joseph M., Hampton, Fla. Rotary pump.....	360,841	Apr. 12	630	167	39	125
Allen, Judson, assignor of one-half to R. Elliott and F. W. Wyman, Hannibal, Mo. Hay rake and gatherer.....	372,783	Nov. 8	751	203	41	619
Allen, Levi D., assignor of one-half to H. Woods, Grayling, Mich. Car-axle.....	363,789	May 31	2446	635	39	965
Allen, Maria E., Brooklyn, N. Y. Diaper.....	355,368	Jan. 4	102	28	38	21
Allen, Oscar, Mount Morris, N. Y. Spoke-throating machine.....	368,868	Aug. 23	2199	585	40	896
Allen, Perry, Flint, Mich. Automatic grain weighing, bagging, and registering apparatus.....	367,577	Aug. 2	323	93	40	513
Allen, Perry, Flint, Mich. Machine for constructing fences.....	375,116	Dec. 20	1383	{ 359 360	{ 41	1329
Allen, Samuel, <i>et al.</i> (See Bacon, Alfred, assignor.)						
Allen, Samuel L., Cinnaminson, N. J. Sled.....	368,802	Aug. 23	2110	{ 558 559	{ 40	878
Allen, Sidney A., Auburn, Me. Wax-heater and thread-waxer for sewing-machines.....	370,440	Sept. 27	1631	435	40	1364
Allen Spool and Printing Company. (See Morrison, J. Henry, assignor.)						
Allen Spool and Printing Company. (See Morrison and Allen, assignors.)						
Allen, Stephen M., Duxbury, Mass. Composition of matter resembling rubber.....	355,751	Jan. 11	632	.....	38	133
Allen, Stephen M., Wendell, Mass. Recovering and utilizing waste rubber.....	375,436	Dec. 27	1807	.....	41	1422
Allen, Sydney E., Winston, N. C. Seal-lock.....	355,961	Jan. 11	958	250	38	194
Allen, Theodore B. (See Allen, Isaac L., assignor.)						
Allen, U. Cornell, and N. S. Potter, Sandy Hill, N. Y. Apparatus for separating vegetable from animal fiber.....	356,611	Jan. 25	1887	496	38	382
Allen, Valentine R., assignor to Cincinnati Suspender Company, Cincinnati, Ohio. Suspenders.....	362,867	May 10	1131	304	39	690
Allen, William A., Colfax, Tex. Stalk-knocker.....	372,735	Nov. 8	667	183	41	606
Allen, William B., Trenton, N. J. Thill-coupling.....	362,052	May 3	3	1	39	473
Allen, William H., Jr. (See Balcom and Allen.)						
Allen, William H., Detroit, Mich. Extraction apparatus.....	364,883	June 14	980	257	39	1279
Allen, William W., East Pepperell, Mass. Door attachment.....	370,300	Sept. 20	1415	381	40	1317
Allen, William W., East Pepperell, Mass. Combination-tool.....	372,444	Nov. 1	237	66	41	515
Allender, Henry, Detroit, Mich. Mechanism for driving gas-machines.....	366,061	July 5	427	116	40	81
Allender, Henry, Detroit, Mich. Machine-gun.....	372,191	Oct. 25	2109	541	41	435
Alley, Cassius, Metamora, Ind. Spring-gun.....	369,153	Aug. 30	2601	691	40	983
Alley, John B., South Norwalk, Conn. Hat-maker's apron.....	363,790	May 31	2447	635	39	965
Alley, John H., <i>et al.</i> (See Waite, Charles N., assignor.)						
Alley, John J. (See Letts, Charles E., assignor.)						
Allfree, James B., Cumberland, Md. Bran-duster.....	373,327	Nov. 15	1581	{ 418 419	{ 41	780
Allfree, James B., assignor of one-half to R. Shriver and H. Swartzwelder, Cumberland, Md. Flour-packing machine.....	359,951	Mar. 22	2279	{ 572 573	{ 38	1352
Allfree, James B., assignor of one-half to R. Shriver and H. Swartzwelder, Cumberland, Md. Grinding-roll.....	362,196	May 3	187	56	39	510
Allingham, James, Mitchell, Dak. Ter. Combined stove-pipe shelf and draft-regulator.....	363,572	May 24	2132	552	39	899
Allington, David K., East Saginaw, Mich. Band-saw wheel.....	365,037	June 21	1207	319	39	1331
Allington, Edward D., Freeport, Ill. Banjo.....	359,658	Mar. 22	1821	463	38	1270
Allis & Co., Edward P. (See Birkholz, Hans, assignor.)						
Allis & Co., Edward P. (See Hinkley, George M., assignor.)						
Allis, Edward P. (See Birkholz, Hans, assignor.)						
Allis, Edward P. (See Hinkley, George M., assignor.)						
Allison, Frank. (See Sweet and Allison.)						
Allison, James J. (See Ulrich, Frederick W., assignor.)						
Allison, M. Herbert, Xenia, Ohio. Auditory transmitter for telephones.....	370,230	Sept. 20	1325	353	40	1299
Allison, William P., Kennebunk, Me. Alarm attachment for door-knobs.....	357,887	Feb. 15	1670	435	38	750
Allman, Eugene H., Mobile, Ala. Machine for sawing shingle-bolts.....	355,581	Jan. 4	371	100	38	74
Allman, Eugene H., Mobile, Ala. Log-dog.....	356,973	Feb. 1	321	87	38	482
Allmuth, Alois, Stuttgart, Württemberg, Germany. Pedal reed-organ attachment for pianos.....	356,815	Feb. 1	99	28	38	441
Allport, Douglas, London, county of Middlesex, England. Window-fastener.....	360,943	Apr. 12	784	204	39	151
Allyn, Dan. L., assignor of one-half to C. Frank, Bloomington, Ill. Combined carpet and weather strip.....	364,462	June 7	367	100	39	1158
Allyn, George S., <i>et al.</i> (See Merrill, John T., assignor.)						
Allyn, John H., Whitesborough, N. Y. Grate for ovens.....	369,831	Sept. 13	713	192	40	1178
Allyn, John H., and H. P. Evans, Whitesborough, N. Y. Fire-grate.....	373,875	Nov. 29	2401	645	41	955
Allyn, Richard J. (See Stearns, George F., assignor.)						
Almqvist, August W. (See Herzberg and Almqvist.)						
Aloe, Albert S., St. Louis, Mo. Safety-razor.....	375,592	Dec. 27	2023	526	41	1463
Aloe, Sidney A., St. Louis, Mo. Safety-razor.....	374,769	Dec. 13	858	225	41	1224
Alplanalb, Anna, Chicago, Ill. Bustle.....	358,914	Mar. 8	746	{ 184 185	{ 38	1045
Alshouse, Henry W., Custer, Ind. Harrow.....	364,203	June 7	8	3	39	1090
Alston, Kemp P., Jr., Lexington, Ky., and J. M. Basket, Leota Landing, Miss. Seeding-machine.....	370,301	Sept. 20	1416	381	40	1317
Alston, William F., Walker County, Tex. Fire-arm.....	358,915	Mar. 8	747	185	38	1046
Alstadt, Abram, Danbury, Conn., assignor to J. J. Asch, New York, N. Y. Fur or skin drying oven.....	371,535	Oct. 18	1129	295	41	239
Alsop, Lycurgus, Bartahatchie, Miss. Cotton planter, chopper, and cultivator.....	364,698	June 14	688	183	39	1226
Alter, Hiram A., Pittsburg, Pa. Furnace.....	366,807	July 19	1451	388	40	290
Altice, Samuel H. (See Myers and Altice.)						
Altmaier, Peter A., Harrisburg, Pa. Magazine fire-arm.....	370,032	Sept. 20	1045	277	40	1247
Altman, Frederick, San José, Cal. Windmill.....	364,983	June 14	1129	294	39	1306
Altman, George W., and P. K. Meech, Huntington, Ind. Broom-holding rack.....	357,057	Feb. 1	444	118	38	504
Altman, John B., Cascade, Iowa. Hame-tug.....	374,648	Dec. 13	687	181	41	1189
Altmayer, Abram. (See Hubber, James W., assignor.)						
Altmeyer, Christian, <i>et al.</i> (See Bryant, James M., assignor.)						
Altmeyer, Peter, <i>et al.</i> (See Bryant, James M., assignor.)						
Altringer, Christopher, Racine, Wis. Fanning-mill.....	357,261	Feb. 8	760	{ 197 198	{ 38	571
Altringer, Christopher, Racine, Wis. Fanning-mill.....	375,524	Dec. 27	1919	503	41	1444
Aluminium und Magnesium Fabrik Patent Grätzel. (See Grätzel, Richard, assignor.)						
Amend, Otto P., New York, N. Y. Solvent for pyroxyline.....	371,021	Oct. 4	422		41	84

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			Spec.	Dr'g.	Vol.	Page.
Amend, Otto P., New York, N. Y. Compound for pyroxyline or nitro-cellulose.....	372,100	Oct. 25	1975		41	410
Amend, Otto P., New York, N. Y. Solvent for pyroxyline. (Reissue)	10,879	Nov. 8	1150	.....	41	691
American Automatic Fire Alarm Association. (See Wheeler, Alden D., assignor.)						
American Bell Telephone Company. (See Blake, Francis, assignor.)						
American Bell Telephone Company. (See Carty, John J., assignor.)						
American Bell Telephone Company. (See Farnham, Isaiah H., assignor.)						
American Bell Telephone Company. (See Martin, Morris, assignor.)						
American Brake Company. (See Poor, George H., assignor.)						
American Brake Company. (See Poor, George H., assignor.) (Reissue.)						
American Buckle and Cartridge Company. (See Kelsey and Hartshorn, assignors.)						
American Button Fastener Company. (See Richards, Francis H., assignor.)						
American Buttonhole, Overseaming and Sewing Machine Company. (See Grant, John J., assignor.)						
American Buttonhole, Overseaming and Sewing Machine Company. (See Moore, Arthur L., assignor.)						
American Carbonate Company. (See Convert, Adolf, assignor.)						
American Chemical Company. (See Frascch, Herman, assignor.)						
American Cotton Seed Company. (See Crawford, Middleton, assignor.)						
American Decorative Company. (See Baker, Jacob M., assignor.)						
American Electrical Works. (See Edwards, Henry F., assignor.)						
American Etching and Engraving Company. (See Elder, James C., assignor.)						
American Fire Hose Manufacturing Company. (See Sibley and Allen, assignors.)						
American Floral Requisite Company. (See Burrough, George A., assignor.)						
American Forcite Powder Manufacturing Company. (See Sundström, Karl J., assignor.)						
American Gas Tip Company. (See Thomas, Eddy T., assignor.)						
American Gas Tip Company. (See Thomas and Phillips, assignors.)						
American Iridium Company. (See Dudley, William L., assignor.)						
American Jute and Fiber Company. (See Angell, Albert, assignor.)						
American Lead Pencil Company. (See Caruso, Henry D., assignor.)						
American Machine Company. (See Woodruff, Oliver D., assignor.)						
American Manufacturing Company. (See Leopold, Charles F., assignor.)						
American Marble Company. (See Maloy, James W., assignor.)						
American National Telephone Company. (See Bonta, James W., assignor.)						
American Optical Company. (See Dupaul, Joseph M., assignor.)						
American Paper Bottle Company. (See Crowell, George W., assignor.)						
American Press Association. (See Cummings, John R., assignor.)						
American Press Association. (See Smith, Orlando J., assignor.)						
American Press Association of Chicago. (See Cummings, John R., assignor.)						
American Printing Press Company. (See Fowler and Henkle, assignors.)						
American Pulverizer Company. (See Fuller, Willard M., assignor.)						
American Ring Company. (See Andrews, Clayton C., assignor.)						
American Road Machine Company. (See Cook, Marcus E., assignor.)						
American Road Machine Company. (See Heller, William L., assignor.)						
American Road Machine Company. (See Poulson and Lathrop, assignors.)						
American Saw Company. (See Risdon, William B., assignor.)						
American Screw Company. (See Harvey, Hayward A., assignor.)						
American Screw Company. (See Rogers, Charles D., assignor.)						
American Ship Windlass Company. (See Potter, Charles A., assignor.)						
American Ship Windlass Company. (See Whitney, Edwin H., assignor.)						
American Spindle Company. (See Field, Millard F., assignor.)						
American Store Service Company. (See Kenney, Thomas M., assignor.)						
American Telephone Improvement Company. (See Drew, Stephen C., assignor.)						
American Ventilating Company. (See Ober, William Y., assignor.)						
American Waltham Watch Company. (See Berlin, Charles, assignor.)						
American Waltham Watch Company. (See O'Hara, Daniel, assignor.)						
American Wax Paper Company. (See Sherck and Batig, assignors.)						
American Wire Hoop Company. (See Bard, James H., assignor.)						
American Writing Machine Company. (See Fairfield, George A., assignor.)						
American Zylonite Company. (See Edson, Jarvis B., assignor.)						
American Zylonite Company. (See Jones and Jarvis, assignors.)						
Ames, Charles H., assignor to D. C. Welch and J. W. Tift, Buffalo, N. Y. Sash-balance	370,302	Sept. 20	1418	381	40	1317
Ames, David J., Owatonna, Minn. Apron-fastener for harvesters	360,402	Apr. 5	1	1	39	3
Ames, Emerson, Washington, D. C. Screen for velocipedes	372,736	Nov. 8	668	183	41	606
Ames, John, Jr., assignor of one-half to J. C. Bonner, Toledo, Ohio. Top-knot for black- ing-brushes	371,117	Oct. 4	547	140	41	108
Ames, John H., St. Paul, Minn. Railway-signal	356,342	Jan. 18	1502	394	38	303
Ames Sword Company. (See Bradford, Gamaliel, assignor.)						
Amet, Edward H., assignor to himself and H. A. Streeter, Chicago, Ill. Brush-shifter for dynamo-electric machines and motors	371,536	Oct. 18	1131	295	41	239
Amies, Joseph H., Reading, Pa. Umbrella or parasol	364,391	June 7	250	70	39	1136
Amis, Alviras W., et al. (See Brownell, Stephen C., assignor.)						
Ammons, John B., Camden, assignor of one-third to G. W. Reardon, Sumter, S. C. Cot- ton-chopper	364,699	June 14	690	184	39	1226
Amoore, Henry E., Yokohama, Japan. Pocket hand-warmer	366,709	July 19	1323	355	40	268
Amos, Alexander M., Buffalo, N. Y. Steam-cooker	370,594	Sept. 27	1867	496	40	1406
Amos, George W., assignor of one-half to S. S. Niles, Chicago, Ill. Axle-nut attachment..	362,922	May 17	1218	325	39	713
Amoskeag Indurated Fibre Ware Company. (See Keyes, Frank E., assignor.)						
Amstutz, Daniel S., Orrville, Ohio. Wagon for butchers	360,642	Apr. 5	354	89	39	68
Amundson, Edward, Lime Rock, Conn. Car-wheel mold	360,403	Apr. 5	2	1	39	3
Ancira, Gonzalo G., Guadalajara, Mexico. Coloring attachment for paper-machines	368,803	Aug. 23	2111	559	40	878
Anderson, Albert. (See Barber and Anderson.)						
Anderson, Andrew G., et al. (See Johnson, Swen J., assignor.)						
Anderson, Anton G., Chicago, Ill. Bung-bush molding-machine	360,404	Apr. 5	3	2	39	3
Anderson, Artiff, Beloit, Wis. Windmill	375,245	Dec. 20	1551	407	41	1364
Anderson Bros. (See Anderson, John, assignor.)						
Anderson, C. Gustaf, Hartford, Conn. Incandescent electric lamp	363,500	May 24	2029	528	39	880
Anderson, Charles, assignor to South Bend Iron Works, South Bend, Ind. Side-hill plow..	365,162	June 21	1397	{ 368 369 }	{ 39 39 }	1364
Anderson, Charles, assignor to South Bend Iron Works, South Bend, Ind. Slip-nose attach- ment for plows	368,043	Aug. 9	1024	276	40	654
Anderson, Charles, assignor to South Bend Iron Works, South Bend, Ind. Plow	375,469	Dec. 27	1851	484	41	1431
Anderson, Charles, assignor to South Bend Iron Works, South Bend, Ind. Skeleton frame for plows	375,525	Dec. 27	1921	503	41	1445

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Anderson, Charles A. (See Kennedy and Anderson.)						
Anderson, Charles A., Boulder, Colo. Rock and earth truck.....	361,477	Apr. 19	1551	402	39	305
Anderson, Charles A., Rockford, Ill. Check-row corn-planter.....	364,463	June 7	367	101	39	1158
Anderson, Charles C., Morgan City, La. Tricycle.....	359,000	Mar. 8	862	218	38	1067
Anderson, Charles E., La Porte, Ind. Fence-machine.....	360,505	Apr. 5	158	39	39	31
Anderson, Charles E., La Porte, Ind. Fence-machine.....	372,650	Nov. 8	544	149	41	583
Anderson, Charles E., London, Ontario, Canada. Moss cleaner, picker, curler, and separator.....	369,676	Sept. 13	508	141	40	1141
Anderson, Edwin S., Utica, N. Y. Double-pressure percolator.....	356,087	Jan. 18	1141	303	38	235
Anderson, Frank, Union Springs, Ala. Safety-base for flues.....	367,692	Aug. 2	506	139	40	546
Anderson, Frank H. (See Crossley, Holt, and Anderson.)						
Anderson, Henry, assignor of a part to H. T. Compton and J. M. Kile, Oakland, and A. T. Vogelsang, San Francisco, Cal. Pile-covering.....	366,444	July 12	930	254	40	185
Anderson, Henry E., Chetek, Wis. Stove-pipe thimble.....	367,885	Aug. 9	798	216	40	612
Anderson, Horatio G. K., New Haven, Conn. Spool-holder.....	368,700	Aug. 23	1969	522	40	852
Anderson, Isaac, assignor of one-half to T. H. Smith, Saginaw, Mich. Pipe-wrench.....	359,197	Mar. 8	1110	{ 288 } { 289 }	{ 38 }	1115
Anderson, James, Allegheny, Pa. Apparatus for burning garbage.....	355,851	Jan. 11	780	205	38	158
Anderson, James J., Chicago, Ill. Construction of railways.....	357,301	Feb. 8	816	212	38	581
Anderson, James S. B., Norfolk, Va. Ship's propeller.....	366,550	July 12	1079	{ 292 } { 293 }	{ 40 }	214
Anderson, John. (See Field, Stephen D., assignor.)						
Anderson, John. (See Simons, Richard L., assignor.)						
Anderson, John, Colon, assignor of two-thirds to Anderson Bros., Lansing, Mich. Road-cart.....	365,562	June 28	2001	521	39	1492
Anderson, John A. (See Morgan and Anderson.)						
Anderson, John M., Toronto, Ontario, Canada. Perpetual combination date-calendar.....	357,262	Feb. 8	761	198	38	571
Anderson, John W., St. Louis, Mo. Inside blind.....	357,888	Feb. 15	1671	435	38	750
Anderson, Joseph, Pittsburg, Pa. Steam-boiler furnace.....	360,079	Mar. 29	2505	637	38	1401
Anderson, Lee, assignor of one-third to F. Fitzhugh, Paris, Tex. Rail-joint.....	363,040	May 17	1390	367	39	746
Anderson, Louis T., Carroll, Iowa. Combined hook and clasp for horse-collars.....	364,464	June 7	368	101	39	1158
Anderson, Millard F., Columbia City, Ind. Overcheck spreader or bar.....	357,112	Feb. 1	545	141	38	522
Anderson, Oliver, assignor of one-fifth to L. Swanson, Fort Totten, Dak. Ter. Band-cutter and feeder.....	359,487	Mar. 15	1536	393	38	1201
Anderson, Robert D., Ethel, La. Railway-signal.....	370,917	Oct. 4	271	66, 67	41	53
Anderson, Robert L., Topeka, Kans. Milk-strainer.....	367,776	Aug. 9	645	173	40	581
Anderson, Samuel A., Olean, N. Y. Fire-escape.....	356,436	Jan. 25	1635	429	38	335
Anderson, Thomas F., Weldon, N. C. Seal-lock.....	359,488	Mar. 15	1538	394	38	1202
Anderson, Thomas F., Walker's, Ohio. Clay-press feeder.....	367,174	July 26	1943	524	40	391
Anderson, Valerius D., Cleveland, Ohio. Steam-condenser.....	355,291	Jan. 4	1	1	38	3
Anderson, Willard W. (See Tingley and Stetson, assignors.)						
Anderson, William W., New York, N. Y. Garment-clasp.....	365,662	June 28	2143	559	39	1518
Andersson, Carl B., assignor to M. J. Dunham, Unionville, Conn. Nut-machine.....	370,515	Sept. 27	1744	{ 463 } { 464 } { 465 }	{ 40 }	1384
Andres, Albert, assignor to C. S. Larrabee, Frankfort, Germany, and C. E. Tingley, Boston, Mass. Heel-burnishing machine.....	371,022	Oct. 4	423	{ 105 } { 106 }	{ 41 }	84
Andres, Frederick W., Youngstown, Ohio. Door-check.....	365,038	June 21	1208	319	39	1331
Andres, George S., San Francisco, Cal. Oil-press mat.....	367,127	July 26	1885	511	40	380
Andress, Thomas, Pittsville, Wis. Car-coupling.....	361,343	Apr. 19	1369	352	39	270
Andrew, Frederick, Lee, county of Kent, assignor of one-half to J. Christie, London, England. Barrel-making machine.....	371,811	Oct. 18	1531	395	41	319
Andrew, Riley, and J. D. Vendrick, Warren, Ind. Corn-row marker.....	365,039	June 21	1209	319	39	1331
Andrews, Albert F., assignor to Climax Fuse Company, Avon, Conn. Machine for calibrating the fuse used to explode gunpowder.....	358,371	Feb. 22	2344	622	38	881
Andrews, Albert F., assignor to Climax Fuse Company, Avon, Conn. Apparatus for oxidizing oils and tar.....	366,991	July 19	1691	455	40	336
Andrews, Amelia V., Philadelphia, Pa. Bed-pan.....	364,078	May 31	2855	741	39	1043
Andrews, Benjamin, New Orleans, La. Cotton-gin.....	375,115	Dec. 20	1381	359	41	1329
Andrews, Charles A., and R. L. Ramsdell, Lynn, Mass. Carrying-tray and case.....	375,437	Dec. 27	1808	473	41	1422
Andrews, Clayton C., assignor to American Ring Company, Waterbury, Conn. Sheet-metal ring and making the same.....	357,302	Feb. 8	819	212	38	582
Andrews, David A., Boston, Mass. Paraffine-paper machine.....	367,886	Aug. 9	799	216	40	612
Andrews, Emanuel. (See Shaw, Myron J., assignor.)						
Andrews, Emanuel, Williamsport, Pa. Saw-tooth.....	369,222	Aug. 30	2688	714	40	1001
Andrews, Emery, assignor to Mousam Manufacturing Company, Kennebunk, Me. Machine for forming heel-stiffeners.....	371,537	Oct. 18	1133	295	41	239
Andrews, George R. (See Graham, Edmund H., assignor.)						
Andrews, John J., assignor of one-half to N. Johnston, Port Huron, Mich. Washing-machine.....	372,588	Nov. 1	448	120	41	555
Andrews, John S., Milltown, New Brunswick, Canada. Car-coupling.....	358,826	Mar. 8	603	149	38	1021
Andrews, John S., Milltown, New Brunswick, Canada. Car-coupling.....	366,642	July 19	1231	329	40	251
Andrews, Joseph A., Cincinnati, Ohio, assignor to Globe Iron Roofing and Corrugating Company, of Ohio. Sheet-metal roofing.....	372,589	Nov. 1	449	121	41	555
Andrews, Nathaniel S., and H. F. Burnap, Dubuque, Iowa. Clamp-hinge.....	366,143	July 5	534	144	40	101
Andrews, Orrington G., Gardiner, Me. Storm-window.....	365,769	July 5	1	1	40	3
Andrews, Wilbert R., La Junta, Colo. Mail-crane.....	358,103	Feb. 22	1972	521	38	811
Andrews, William T., Boston, Mass. Feed-water heater.....	361,803	Apr. 26	2027	527	39	400
Andrews, William T., Williamsport, Pa. Bearing for velocipedes.....	371,911	Oct. 25	1687	437	41	359
Aneshaensel, Charles. (See Strong, William, assignor.)						
Anewelt, M. T., et al. (See Coats and Jay, assignors.)						
Angell, Albert, East Orange, N. J., assignor to American Jute and Fiber Company, of New York. Machine for separating jute, ramie, &c., from the stalk.....	358,827	Mar. 8	604	149	38	1021
Angell, Benjamin J., deceased; E. F. Angell, administratrix and assignor to Horton, Angell & Co., Attleborough, Mass. Jewelry.....	375,526	Dec. 27	1922	504	41	1445
Angell, Edmund R., Derry, N. H. Closet for private purposes.....	367,495	Aug. 2	207	57, 58	40	491
Angell, Edwin E., Malden, assignor to C. B. Kendall, Newton, Mass. Feed mechanism for sewing-machines.....	368,925	Aug. 30	2293	609	40	923
Angell, Edwin E., Malden, and C. B. Kendall, Newton, Mass, assignors to Automatic Can Machine Company, Saco, Me. Can-making machine.....	371,484	Oct. 11	1051	{ 273 } { 274 }	{ 41 }	213
Angell, Edwin E., Malden, and C. B. Kendall, Newton, Mass., assignors to Automatic Can Machine Company, Saco, Me. Can-heading mechanism.....	371,912	Oct. 25	1687	437	41	359
Angell, Emma F., administratrix. (See Angell, Benjamin J.)						
Angell, Horace B., San Francisco, Cal. Dredger.....	369,976	Sept. 13	951	251	40	1221

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Angerer, Victor. (See Samuel and Angerer.)						
Angerer, Victor, assignor to W. Wharton, Jr., & Company, Philadelphia, Pa. Automatic stop for abutting rails of railways	364,200	May 31	3038	790	39	1077
Angerer, Victor, assignor to W. Wharton, Jr., & Company, Philadelphia, Pa. Switch for overhead railways	364,626	June 14	591	159	39	1207
Annaheim, Joseph, assignor to L. Durand & Huguenin, Basle, Switzerland. Manufacture of blue coloring-matter	369,764	Sept. 13	617	.....	40	1160
Anson, Gustin M., assignor of two-thirds to H. Stoddart and C. D. Shreve, Marshalltown, Iowa. Tube-cleaner	355,806	Jan. 11	710	185	38	147
Anson, William, Birmingham, county of Warwick, England. Shell-ejecting mechanism for breech-loading guns	371,118	Oct. 4	548	140	41	109
Ansonia Brass and Copper Company. (See Hull, Wolcott A., assignor.)						
Ansonia Brass and Copper Company, <i>et al.</i> (See Griswold, James D., assignor.)						
Ansonia Brass and Copper Company, <i>et al.</i> (See Lyman, Charles H., assignor.)						
Ansonia Brass and Copper Company, <i>et al.</i> (See Woodward, George W., assignor.)						
Anstice, Josiah, <i>et al.</i> (See Scofield, Henry L., E. J., and A. B., assignors.)						
Antheunis, Georges, Ghent, Belgium, assignor to M. Polachek, Chicago, Ill. Blasting-powder	374,921	Dec. 20	1092	.....	41	1277
Anthony & Company, E. & H. T. (See Barker, Erastus B., assignor.)						
Anthony & Company, E. & H. T. (See Brodhag, Eduard, assignor.)						
Anthony & Company, E. & H. T. (See Cooper and Lewis, assignors.)						
Anthony & Company, E. & H. T. (See Higgins, John J., assignor.)						
Anthony & Company, E. & H. T. (See Lewis, William H., assignor.)						
Anthony, Edgar W., Boston, Mass. Heating stove or furnace	367,777	Aug. 9	646	{ 173 174 }	{ 40 40 }	581
Anthony, Edgar W., Boston, Mass. Cooking-stove	369,677	Sept. 13	509	141	40	1141
Anthony, Edgar W., Boston, Mass. Heating-stove	371,658	Oct. 18	1299	337	41	272
Anthony, Henry C. (See Singer, William F., assignor.)						
Anthony, Mark, San Francisco, Cal. Glass preserving-jar	375,246	Dec. 20	1552	407	41	1364
Antisell, Thomas M., San Francisco, Cal. Piano wrest-plank	373,262	Nov. 15	1485	392	41	762
Anway, Le Grand M., New York, N. Y. Automatic mechanical boiler-cleaner	373,712	Nov. 22	2169	580	41	904
Ap Roberts, Gwilym I., River Falls, Wis. Trunk	362,868	May 10	1132	304	39	690
Apgar, Charles E., Hastings, Nebr. Seal	372,101	Oct. 25	1975	507	41	410
Appert, Adrien. (See Appert, Léon and A.)						
Appert, Léon and A., Paris, France. Machine for making perforated glass	362,698	May 10	899	{ 244 245 }	{ 39 39 }	648
Apple, George C., and C. W. Brandon, Greenville, Ohio. Vehicle	374,441	Dec. 6	385	101	41	1119
Appleby, J. Charles. (See McCloskey, John, assignor.)						
Appleby, J. Charles, Jersey City, N. J. Apparatus for covering wire with soft metal	374,164	Dec. 6	4	1, 2	41	1047
Appleby, J. Charles, Jersey City, N. J. Machine for making soft-metal pipes	374,165	Dec. 6	7	2	41	1048
Appleby, J. Charles, Jersey City, N. J. Apparatus for covering wire with soft metal	374,166	Dec. 6	9	2	41	1048
Appleby, J. Charles, Jersey City, N. J. Means for making pipes	374,167	Dec. 6	10	3	41	1048
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Bundle-carrier for harvesters	362,141	May 3	120	36	39	496
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Wheel	362,142	May 3	122	36	39	497
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Knotting mechanism for grain-binders	362,811	May 10	1058	288	39	677
Applegate, Ann E., <i>et al.</i> (See Clark, Ernest P., assignor.)						
Applegate, George, <i>et al.</i> , administrators. (See Shimer, Samuel J.)						
Appleman, Mathias M., Rohrsburg, Pa. Pump	365,500	June 28	1890	492	39	1469
Appleton, Thomas. (See Kimball and Appleton.)						
Appleton, William, assignor to Horton, Angell & Co., Attleborough, Mass. Button	370,441	Sept. 27	1633	435	40	1364
Appleton, William H., New York, N. Y. Machine for rolling seamless tubes	369,311	Sept. 6	2	1	40	1035
Apsley, George, Lock Haven, Pa. Seamless shoe	374,571	Dec. 13	585	153	41	1169
Apsley, L. Dewart, <i>et al.</i> (See Videto, Theodore H., assignor.)						
Arbeiter, Joseph, New York, N. Y. Wire-nail machine	355,631	Jan. 4	439	121	38	87
Arbogast, Philip, Pittsburg, Pa. Manufacture of glass lamps	359,489	Mar. 15	1539	394	38	1202
Arbuckle, William T., Bartlett, Tenn. Cotton-chopper	357,058	Feb. 1	444	118	38	504
Archbold, Samuel, <i>et al.</i> (See See, Horace, assignor.)						
Archer, Samuel B., Saratoga, N. Y., assignor of three-fourths to R. C. Blackall, E. and H. G. Young. Car-axle box	371,243	Oct. 11	721	185	41	150
Archer, William, Brooklyn, N. Y. Propelling vessels	359,952	Mar. 22	22-2	573	38	1353
Archer, William R., Green, Kans. Sulky-harrow	372,651	Nov. 8	546	150	41	583
Archer, William S., New York, N. Y. Machine for carding or separating fibrous material	371,913	Oct. 25	1689	{ 437 438 }	{ 41 41 }	359
Arcus, Sinclair, Chicago, Ill. Hand-car	355,962	Jan. 11	959	251	38	194
Arcus, Sinclair, Chicago, Ill. Means for handling hand-cars	367,260	July 26	2079	562	40	417
Ardery, Nevada F., New Cumberland, Ind. Bustle	372,192	Oct. 25	2111	542	41	435
Ardrey, Samuel B., Bristol, Pa. Chuck	358,916	Mar. 8	748	{ 185 186 }	{ 38 38 }	1047
Aregood, George H. (See Aregood, John W. and G. H.)						
Aregood, John W. and G. H., Chicago, Ill. Freight-car	369,088	Aug. 30	2526	670	40	967
Argo, Adolph, Chemnitz, Saxony, Germany. Car-brake	367,947	Aug. 9	891	242	40	629
Arkell, James. (See Blowers, George O., assignor.)						
Arkenberg, Charles. (See Bennet, Charles, assignor.)						
Arkin, David, Manistee, Mich. Circular sawing machine	371,914	Oct. 25	1691	438	41	359
Arnat, Thomas, Richmond, Va. Car-coupling	361,664	Apr. 26	1833	475	39	367
Armbruster, Frederick, deceased, New York, N. Y.; C. F. Metzger, F. F. Brailard, and H. Kock, executors. Making traveling-bags or analogous articles	371,405	Oct. 11	952	246	41	193
Armbruster, Mathias, Columbus, Ohio. Photographer's scenery	373,794	Nov. 22	2282	{ 611 612 }	{ 41 41 }	925
Armentrout, Albert C. (See Coleman, Armentrout, and Sweitzer.)						
Armington, Pardon, Providence, R. I. Valve for steam-engines	357,113	Feb. 1	546	141	38	522
Armington, Pardon, Providence, R. I. Piston-valve	370,442	Sept. 27	1634	435	40	1364
Armington, Pardon, Providence, R. I. Piston-valve	370,443	Sept. 27	1635	436	40	1364
Armitage, Albert A., Kenesaw, Nebr. Combined hand-truck and weighing-scale	366,753	July 19	1385	371	40	279
Armour, Robert J., Chicago, Ill. Tail-lamp for railway-trains	372,054	Oct. 25	1901	490	41	397
Armour, Robert J., New York, N. Y. Signal-lamp	373,169	Nov. 15	1343	356	41	736
Arms, Harrison, Toledo, Ohio. Stock-car	355,907	Jan. 11	873	229	38	177
Armstrong, Albert, assignor of one-half to R. F. Stewart, Cincinnati, Ohio. Vehicle-spring	366,754	July 19	1387	371	40	279
Armstrong, B. A. (See Smith, Leonard O., assignor.)						
Armstrong, Benjamin A. (See Smith, Leonard O., assignor.)						
Armstrong, Edward, assignor of one-half to G. H. Dickinson, Burlington, Kans. Trace-bearer point	363,192	May 17	1597	419	39	788

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Armstrong, Edwin J., Painted Post, N. Y. Grinding-machine.....	375,247	Dec. 20	1553	407	41	1364
Armstrong, Edwin J., assignor to Weston Engine Company, Painted Post, N. Y. Balanced slide-valve.....	358,799	Mar. 1	553	138	38	1007
Armstrong, Edwin J., assignor to Weston Engine Company, Painted Post, N. Y. Governor for steam-engines.....	368,044	Aug. 9	1025	276	40	655
Armstrong, Edwin J., assignor to Weston Engine Company, Painted Post, N. Y. Governor for steam-engines.....	370,303	Sept. 20	1419	382	40	1317
Armstrong, Edwin J., assignor to Weston Engine Company, Painted Post, N. Y. Cross-head for steam-engines.....	372,102	Oct. 25	1976	508	41	410
Armstrong, Frank, Bridgeport, Conn. Garter.....	365,770	July 5	2	1	40	3
Armstrong, Frank, Bridgeport, Conn. Chain link or coupler.....	370,918	Oct. 4	272	67	41	54
Armstrong, James, assignor to J. C. Armstrong, Bridgewater, N. Y. Combined smoke-stack and feed-water heater for locomotives.....	355,632	Jan. 4	440	121	38	87
Armstrong, James D., Effingham, Kans. Attachment for harrows.....	370,755	Oct. 4	2	1	41	3
Armstrong, James H., Houston, Tex. Railway-signal.....	364,204	June 7	9	3	39	1090
Armstrong, James T., London, England. Galvanic battery.....	372,193	Oct. 25	2112	542	41	436
Armstrong, Jane C. (See Armstrong, James, assignor.)						
Armstrong, John B., assignor of one-half to F. T. Lockhart, Augusta, Ga. Door-check.....	355,852	Jan. 11	780	205	38	159
Armstrong, John B., assignor of one-half to F. T. Lockhart, Augusta, Ga. Seal-lock.....	355,853	Jan. 11	782	205	38	159
Armstrong, Matthew. (See Linck, Joseph, assignor.)						
Armstrong, Mitchell & Co., W. G. (See Brankston, Ralph T., assignor.)						
Armstrong, Mitchell & Co., W. G. (See Murray, Charles H., assignor.)						
Armstrong, Mitchell & Co., W. G. (See Noble, Andrew, assignor.)						
Armstrong, Mitchell & Co., W. G. (See Noble and Murray, assignors.)						
Armstrong, Mitchell & Co., W. G. (See Stuart, George, assignor.)						
Armstrong, Samuel, Newark, N. J. Detonating-ball.....	359,490	Mar. 15	1540	394	38	1202
Armstrong, Stephen G., Berrien Springs, Mich. Combined medical compound and confection.....	366,992	July 19	1692	.....	40	336
Armstrong, Wesley S., Cleveland, Ohio. Bracket-hook for cage-protectors.....	363,879	May 31	2571	668	39	988
Arnao, Juan, Jr., Troy, N. Y. Belt for machinery.....	360,751	Apr. 5	502	129	39	94
Arnao, Juan, Jr., Troy, N. Y. Driving-belt.....	375,308	Dec. 20	1637	429	41	1380
Arnao, Juan, Jr., assignor of one-half to J. P. Gilly, Troy, N. Y. Shaft-coupling for vehicles.....	366,194	July 12	605	165	40	123
Arndt, Frederick, Palmer, Kans. Well-ventilator and anti-freezer for pumps.....	357,564	Feb. 15	1203	317	38	665
Arner, Jerry, Esrom, Mo. Rotary engine.....	366,643	July 19	1232	{ 329 } { 330 }	{ 40 }	251
Arneson, August C., Clark's Grove, Minn. Mechanical movement.....	360,194	Mar. 29	2693	680	38	1435
Arnett, William D., Morrison, Colo. Hay-baler.....	358,245	Feb. 22	2175	573	38	849
Arnett, William D., Morrison, Colo. Seeding-machine.....	359,832	Mar. 22	2088	528	38	1317
Arnett, William D., Denver, Colo. Cutting-disk for seeding-machines.....	358,246	Feb. 22	2175	574	38	849
Arnett, William D., Denver, Colo. Seeding-machine.....	358,247	Feb. 22	2176	574	38	849
Arnett, William D., Denver, Colo. Seeding-machine.....	358,248	Feb. 22	2178	574	38	850
Arnett, William D., Denver, Colo. Grain drill and seeder.....	369,383	Sept. 6	103	31	40	1053
Arnett, William D., Denver, Colo. Grain-drill.....	374,514	Dec. 6	489	127	41	1140
Arning, William, Quincy, Ill. Hoof-protector attachment for horseshoes.....	362,479	May 10	581	163	39	591
Arno Musical Box Company. (See Arno, Oliver H., assignor.)						
Arno, Oliver H., assignor to Arno Musical Box Company, Boston, Mass. Mechanical musical instrument.....	361,200	Apr. 12	1173	{ 296 } { 297 }	{ 39 }	222
Arno, Oliver H., assignor to Arno Musical Box Company, Boston, Mass. Mechanical musical instrument.....	361,201	Apr. 12	1178	{ 297 } { 298 }	{ 39 }	223
Arnois, Charles, Brooklyn, N. Y. Manufacture of carbonic acid.....	368,123	Aug. 9	1130	300	40	674
Arnold, Alonzo B., assignor of one-half to R. C. McCornack, Gladbrook, Iowa. Halter-trimming.....	363,311	May 17	1748	458	39	817
Arnold, Benjamin, East Greenwich, R. I. Circular loom.....	357,651	Feb. 15	1330	350	38	687
Arnold, Caleb and R. H., Honeoye, N. Y. Extension-ladder.....	361,202	Apr. 12	1181	299	39	224
Arnold, Clarence R., Wellsville, Ohio. Banker's safety express-box.....	370,671	Sept. 27	1977	524	40	1428
Arnold, Cornelius, Raymond, Ill. Husking-pin.....	357,948	Feb. 15	1746	456	38	764
Arnold, Craig R., Philadelphia, Pa. Steam-engine.....	364,627	June 14	592	{ 159 } { 160 }	{ 39 }	1207
Arnold, Craig R., Sharon Hill, Pa. Car-lighting apparatus.....	366,292	July 12	739	201	40	147
Arnold, David A., Pawtucket, R. I. Heating apparatus.....	370,444	Sept. 27	1637	436	40	1365
Arnold, Edward F., North Abington, Mass. Welt-guide for shoe-sewing machines.....	359,239	Mar. 15	1177	307	38	1135
Arnold, Eliphalet L., Montgomery, Tex. Steam-engine governor.....	368,370	Aug. 16	1492	398	40	752
Arnold, Francis P., North Pembroke, Mass. Heel-rand.....	356,056	Jan. 11	1084	284	38	218
Arnold, George D. (See Mickey, Robert J., assignor.)						
Arnold, Henry L., Denver, Colo. Car-coupling.....	372,283	Nov. 1	1	1	41	471
Arnold, Leroy. (See Arnold, Mitchell, and Taliaferro.)						
Arnold, Matthew, San Francisco, Cal. Rivet.....	361,390	Apr. 19	1438	371	39	283
Arnold, Matthew, San Francisco, Cal. Riveting-machine.....	371,659	Oct. 18	1300	337	41	272
Arnold, Matthew H. and L. E. P. Mitchell, and R. F. Taliaferro, Hueneme, Cal. Hay-loading machine.....	371,729	Oct. 18	1414	366	41	296
Arnold, Rollin H. (See Arnold, Caleb and R. H.)						
Arnold, Schuyler, Caro, Mich. Dental articulator.....	370,445	Sept. 27	1638	437	40	1365
Arnold, Sydney W., and W. C. Cranmer, Philadelphia, Pa. Underground way or conduit.....	366,195	July 12	605	165	40	123
Aron, Hermann, Berlin, Germany. Apparatus for measuring electric currents.....	374,860	Dec. 13	983	257	41	1247
Aron, Hermann, Berlin, Germany. Apparatus for measuring electric currents.....	374,861	Dec. 13	986	258	41	1247
Arp, Peter A., Philipsburg, assignor of two-thirds to C. G. Welch, Osceola Mills, and C. B. Finley, Philipsburg, Pa. Machine for mining coal, &c.....	374,137	Nov. 29	2776	746	41	1028
Arpin, Edmund P. (See Lemm, Eli T., assignor.)						
Arthur, Alexander J., and S. W. Gray, Fort Dodge, Iowa. Stocking-supporter.....	369,678	Sept. 13	510	141	40	1141
Arthur, George H., Chicago, Ill. Transfer-roller.....	367,737	Aug. 2	584	159	40	561
Arthur, Joseph A., Columbus, assignor to M. J. Enright and G. G. Hadley, Toledo, Ohio. Steam-engine.....	375,689	Dec. 27	2167	564	41	1488
Arthur, William, Gainesville, Fla. Telegraph receiving-instrument.....	355,431	Jan. 4	179	48	38	36
Asbury, Rufus R., Pleasant Retreat, Ga. Car-coupling.....	367,738	Aug. 2	584	159	40	561
Asbury, Rufus R., Pleasant Retreat, Ga. Car-coupling.....	373,042	Nov. 15	1153	309	41	701
Asch, Joseph J. (See Alstadt, Abram, assignor.)						
Aschermann, Edward, et al. (See Dalton, Thomas, assignor.)						
Ash, James, Chicago, Ill. Hand-truck.....	363,940	May 31	2662	691	39	1004
Ash, Joseph S., assignor of one-half to C. B. Cowan, Canal Winchester, Ohio. Disk for grinding-mills.....	361,252	Apr. 19	1251	319	39	249
Ashborn, J. Wilson. (See Griffing and Ashborn.)						
Ashborn, J. Wilson, assignor of one-half to C. E. Griffing, Danbury, Conn. Educator and puzzle.....	364,465	June 7	369	101	39	1158

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Ashbourne, Alexander P., Philadelphia, Pa., assignor to Desiccated Cocoanut and Oil Manufacturing Company, (limited,) of Pennsylvania. Treating and refining cocoanut-oil	356,398	Jan. 18	1575		38	316
Ashby, Delmar E., San Francisco, Cal. Fruit-jar	360,131	Mar. 29	2600	659	38	1417
Ashby, Delmar E., San Francisco, Cal. Canning	363,941	May 31	2663	691	39	1004
Ashby, Pierre, Central Falls, R. I. Tension-regulating attachment for loom-shuttles	369,089	Aug. 30	2527	670	40	967
Ashcroft, John, New York, N. Y. Furnace for steam-boilers	356,675	Jan. 25	1968	517	38	399
Ashe, Robert, Somerville, Mass. Edge-burnishing machine	364,156	May 31	2972	{ 772 773 }	{ 39	1064
Ashe, Robert, Somerville, Mass. Shank and heel burnishing machine	369,679	Sept. 13	511	142	40	1142
Ashenfelter, Joseph, Liberty, Nebr. Combined cultivator and pulverizer	369,492	Sept. 6	241	68	40	1079
Ashford, Thomas G., Courtney, Tex. Car-coupling	369,384	Sept. 6	104	32	40	1053
Ashley, Richard B., Walkerton, Ontario, Canada. Harness and trace buckle	361,253	Apr. 19	1252	319	39	249
Ashley, Thomas C. (See Guthrie, James F., Jr., assignor.)						
Ashmead, Frank M. (See Lewis, James, assignor.)						
Ashuelot Can Company. (See Blake, Hiram, assignor.)						
Ashuelot Can Company. (See Bowker, Leo E., assignor.)						
Ashworth, Elijah. (See Ashworth, George and E.)						
Ashworth, George and E., Manchester, county of Lancaster, England. Bend for carding-engines	359,529	Mar. 15	1607	411	38	1214
Ashworth, George and E., Manchester, county of Lancaster, England. Cleaning apparatus for carding-engines	369,271	Aug. 30	2752	734	40	1013
Asire, Daniel. (See Mabbey, Jesse T., assignor.)						
Asire, Isaac H., Forest, Ohio. Roof	361,974	Apr. 26	2283	594	39	446
Askew, Charles B. (See Farnham and Askew.)						
Askins, Joseph, Lima, Ohio. Radiator	365,663	June 28	2144	560	39	1519
Askins, Joseph, Lima, Ohio. Steam-radiator	367,083	July 26	1823	491	40	369
Aspinwall, Lewis A., Trenton, N. J. Potato-digger	372,351	Nov. 1	99	29	41	490
Asselstine, Charles N., Hamilton, Dak. Ter. Anvil for forming plowshares	371,163	Oct. 11	615	157	41	129
Asselstine, Charles N., Hamilton, Dak. Ter. Anvil for forming landsides for plows	371,164	Oct. 11	616	157	41	129
Assheton, William, St. Louis, Mo. Autographic register	374,231	Dec. 6	87	22	41	1063
Assmus, Adolph, assignor to Mallette & Raymond Manufacturing Company, Chicago, Ill. Reclining-chair	368,989	Aug. 30	2380	{ 632 633 }	{ 40	940
Aston, John G., Asheville, N. C. Adjustable drafting-table	356,023	Jan. 11	1035	272	38	209
Atchison, William. (See Mackenzie, Joseph D., assignor.)						
Aten, Frank L., Round Rock, Tex. Corn-planting attachment for plows	371,812	Oct. 18	1532	395	41	319
Atha, Benjamin. (See Hinsdale, William R., assignor.)						
Atha, Benjamin, Newark, N. J. Mold for armor-plate	375,666	Dec. 27	2133	{ 554 555 }	{ 41	1482
Atherton, Garrick M., Elk Falls, Kans. Water-elevator	357,971	Feb. 15	1782	{ 467 468 }	{ 38	771
Atherton, Giles. (See Carrick, William, Jr., assignor.)						
Atherton, John F., Portland, Oreg. Combined presser-foot and guide for use in embroidering	363,573	May 24	2134	553	39	900
Athey, Isaac H., Marion, Ark. Corn-planter attachment	371,119	Oct. 4	549	{ 140 141 }	{ 41	109
Atkins, Charles H., Boston, Mass. Electrical apparatus for separating metallic particles from paper-pulp	360,842	Apr. 12	632	167	39	125
Atkins & Company, E. C. (See Crossman and Buch, assignors.)						
Atkins, Elias C. (See Maculen, Albert, assignor.)						
Atkins, Elias C., Indianapolis, Ind. Saw tempering and straightening machine	363,271	May 17	1694	444	39	807
Atkins, George W., Clarion, Pa. Mud-fender for vehicles	359,530	Mar. 15	1607	412	38	1215
Atkinson, James, Hampstead, county of Middlesex, England. Gas-engine	367,496	Aug. 2	208	58, 59	40	491
Atkinson, James S., assignor to Jones & Laughlins, (limited,) Pittsburg, Pa. Manufacture of rolls	364,157	May 31	2973	.....	39	1064
Atkinson, Samuel, Cincinnati, Ohio. Vehicle-spring	367,353	Aug. 2	1	1	40	451
Atkinson, William B., Franklin, Ky., assignor of one-third to A. G. Schwab, Cincinnati, Ohio. Sign	366,911	July 19	1586	424	40	316
Atkinson, William W., Chicago, Ill. Extensible structure	357,444	Feb. 8	1004	265	38	617
Atlas Engine Works. (See Moore, Matthew R., assignor.)						
Atterbury, Thomas B., et al. (See Thomas, William D., assignor.)						
Atterbury, Thomas B., Pittsburg, Pa. Manufacture of glassware	362,413	May 3	483	136	39	568
Atterbury, Thomas B., Pittsburg, Pa. Manufacture of glass flower-stands	362,414	May 3	484	137	39	569
Atterbury, Thomas B., Pittsburg, Pa. Glass reflector	362,415	May 3	485	137	39	569
Atterbury, Thomas B., Pittsburg, Pa. Manufacturing ornamental glassware	366,364	July 12	837	225	40	165
Attwood, Melville, Saucelito, and H. R. Taylor, Oakland, Cal.; said Attwood assignor to said Taylor. Chemist's, assayer's, and prospector's balance	357,139	Feb. 1	589	151	38	529
Atwater, John B., Chicago, Ill. Electro-magnetic attraction device for cars	357,516	Feb. 8	1112	292	38	637
Atwater, John B., Chicago, Ill. Cyclone-destroyer	370,845	Oct. 4	141	38	41	28
Atwater, John C., New York, N. Y. Door-knob and shank	371,295	Oct. 11	795	203	41	163
Atwood, Dustin, Milwaukee, Wis. Rail-support for railways	372,284	Nov. 1	2	1	41	471
Atwood, Eugene, and C. H. Cowan, assignors to Atwood Machine Company, Stonington, Conn. Bobbin	371,296	Oct. 11	796	203	41	164
Atwood, George F., Swanton, Vt. Buckle	359,915	Mar. 22	2224	559	38	1342
Atwood, George F., Swanton, Vt. Suspender-loop clamp	370,033	Sept. 20	1049	278	40	1248
Atwood, James M. and J. K., Lisbon, assignors, by mesne assignments, to themselves and J. C. Mitchell, Lancaster, N. H. Car-coupling	358,139	Feb. 22	2033	535	38	821
Atwood, Jonathan K. (See Atwood, James M. and J. K.)						
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Wick-tube for lamps and lamp-stoves	357,545	Feb. 8	1162	304	38	647
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Oil-burner	360,843	Apr. 12	662	168	39	126
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Shoe-nail	360,983	Apr. 12	843	216	39	161
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Lamp-burner	360,984	Apr. 12	844	216	39	162
Atwood, Lewis J., and W. F. Lewis, assignors to Plume & Atwood Manufacturing Company, Waterbury, Conn. Lamp-burner	370,516	Sept. 27	1748	465	40	1385
Atwood Machine Company. (See Atwood and Cowan, assignors.)						
Atwood, William H., Hudson, N. Y. Hat-holder	359,953	Mar. 22	2283	574	38	1353
Atzell, John F. (See Collins, John W., assignor.)						
Auberlin, Theophilus A., assignor of one-fourth to Detroit Safe Company, Detroit, Mich. Combined latch and lock	370,517	Sept. 27	1749	{ 465 466 }	{ 40	1385
Aubert, Georges, Le Sentier de Vaud, Switzerland, assignor to P. Nordmann, New York, N. Y. Repeating-watch	368,904	Aug. 23	2250	{ 598 599 }	{ 40	906

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Aubery, James M., assignor of one-half to F. A. Coker, Chicago, Ill. Seal-lock	356,739	Feb. 1	1	1	38	423
Anbeuf, Frank J., Oneida, N. Y. Runner attachment for vehicles	363,717	May 24	2345	609	39	940
Aubin, Charles T. (See Lorraine and Aubin.)						
Auer, Joseph, Dupont, Ohio. Draft-equalizing doubletree	375,690	Dec. 27	2171	565	41	1489
Aufrichtig, Alois. (See Brosch, Jacob, assignor.)						
Ange, George W. (See Zwoyer and Ange.)						
Augsburger, Edward H., Woodsdale, Ohio. Thill-coupling	367,354	Aug. 2	2	1	40	451
Anguin, Augustin C. M., Raincy, near Paris, France. Dumping-car	363,718	May 24	2345	609	39	940
Augusta Wrench Company. (See Spaulding, Albion K. and A. M., assignors.)						
Auguste-Godchaux, Paul F., Paris, France. Printing-machine	373,733	Nov. 22	2195	587	41	910
Augustine, Halvor, Sioux Falls, Dak. Ter. Axle-lubricator	365,223	June 21	1473	388	39	1380
Augustine, William M., South Bend, Ind. Wire-twisting machine	369,765	Sept. 13	618	167	40	1160
Auld, Joseph, Burlington, Vt. Sleeping-car	364,565	June 7	512	{ 138 139 }	{ 39 }	1184
Auredenn, John, assignor of three-fourths to L. Bernstien and M. J. Lieberman, Cincinnati, Ohio. Attachment for knitting-machines	360,551	Apr. 5	235	58, 59	39	46
Aurora Watch Company. (See Hurd, Joseph W., assignor.)						
Ausman, Jasper M. (See Woodruff, Luther J., assignor.)						
Austin, Aronamous B., Fort Wayne, Ind. Dust-pan	360,643	Apr. 5	356	90	39	68
Austin, Charles D., et al. (See Clough, Willard E., assignor.)						
Austin, Charles D., Amsterdam, assignor to Tompkins Brothers, Troy, N. Y. Thread-roll pin for bobbin-winders	365,291	June 21	1581	411	39	1398
Austin, Charles E., assignor to himself and S. G. Philpot, Salmon Falls, N. H. Rein-holder	360,264	Mar. 29	2796	711	38	1454
Austin, Frederick C. (See Gail, Harry S., assignor.)						
Austin, Gustavus. (See Stone, Frank W., assignor.)						
Austin, John. (See Kauffman and Austin.)						
Austin, Josiah, East Liberty, Ohio. Boiler-feeder	362,480	May 10	582	163	39	591
Austin, Josiah, near East Liberty, Ohio. Water-feeder for boilers	368,990	Aug. 30	2383	633	40	940
Austin, Lloyd W., Milwaukee, Wis. Shoe-nail	363,446	May 24	1938	508	39	861
Austin, Perry G., Hecla, Ind. Apparatus for setting tires	363,272	May 17	1697	444	39	807
Austin, Samuel E., Fort Valley, Ga. Adding-machine	370,719	Sept. 27	2058	546	40	1442
Austin, Stephen J., Terre Haute, Ind. Platform-scale	372,055	Oct. 25	1903	491	41	398
Austin, William L., et al. (See Vauclain, Samuel M., assignor.)						
Aute, Joseph. (See Messerle, William, assignor.)						
Automatic Box Company. (See Keeson, William P., assignor.)						
Automatic Box Company. (See Russell, Charles H., assignor.)						
Automatic Can Machine Company. (See Angell and Kendall, assignors.)						
Automatic Can Machine Company. (See Sleeper, Charles W., assignor.)						
Automatic Car Coupling Company. (See Solcer, Newton, assignor.)						
Automatic Fire Alarm and Extinguisher Company. (See Burgher, Charles, assignor.)						
Automatic Music Paper Company. (See Treat, James E., assignor.)						
Automatic Selling Machine Company. (See Everitt, Percival, assignor.)						
Automatic Selling Machine Company. (See Leavitt, Frank M., assignor.)						
Autophone Company. (See Morris, Tisdell, and Labar, assignors.)						
Averberg, Carl H., Hamburg, Germany. Carriage-escape	366,365	July 12	838	225	40	166
Averell, John D., assignor of part to G. F. Swift, Brooklyn, W. H. Platt, Albany, and A. Fitch, New York, N. Y. Process of and apparatus for generating illuminating-gas	360,944	Apr. 12	785	204	39	151
Averell, John D., assignor of part to G. F. Swift, Brooklyn, W. H. Platt, Albany, and A. Fitch, New York, N. Y. Process of and apparatus for generating wood-gas	360,945	Apr. 12	788	204	39	152
Averill, Francis E., and F. W. Sharp, Pulaski, N. Y. Combined clothes-drier and lawn-tent	369,493	Sept. 6	243	69	40	1080
Avers, Herbert M., and J. M. Pease, Chicago, Ill. Revolving soap-holder	364,566	June 7	514	139	39	1184
Avery, Andrew J., Norway, Me. Edge-plane for trimming the sole-edges of boots or shoes	363,107	May 17	1480	391	39	763
Avery, Charles E., Jacksonville, Fla. Bottling-gasogene	372,248	Oct. 25	2193	563	41	452
Avery, George C., assignor to B. F. Avery & Sons, Louisville, Ky. Corn-planter	358,638	Mar. 1	323	78	38	963
Avery, George H., Easthampton, Mass. Connecting device for harness-straps for looms	363,352	May 24	1810	475	39	837
Avery, George V., assignor of one-half to G. P. Sinn, Wonewoc, Wis. Shaft-tug	360,752	Apr. 5	503	129	39	94
Avery, James R., Louisville, Ky. Car-coupling	367,128	July 26	1886	511	40	380
Avery, James R., Louisville, Ky. Car-coupling	369,578	Sept. 6	364	101	40	1104
Avery, John A., et al. (See Parsons, Paul J., assignor.)						
Avery Lactate Company. (See Waite, Charles N., assignor.)						
Avery, Lyman S., assignor of one-third to C. D. Honeywell, Dallas, Pa. Thill-coupling	368,505	Aug. 16	1696	452	40	790
Avery, Merideth D., Albion, Mich. Car-coupling	366,710	July 19	1325	355	40	268
Avery Planter Company. (See Avery and Berrien, assignors.)						
Avery, Richard B., assignor of one-half to G. B. Hulme, New York, N. Y. Car starter and brake	357,263	Feb. 8	762	198	38	571
Avery, Robert H., and L. B. Berrien, assignors to Avery Planter Company, Peoria, Ill. Windmill	371,120	Oct. 4	551	141	41	109
Avery & Sons, B. F. (See Avery, George C., assignor.)						
Avery, William B., assignor to H. A. Streeter, Chicago, Ill. Shutter-fastener	371,538	Oct. 18	1135	296	41	240
Axial Type Writer Company. (See Waite, James H., assignor.)						
Axt, Carl B., Chemnitz, Saxony, Germany. Fastening objects to iron beams	359,310	Mar. 15	1269	328	38	1152
Ayer, Albert E. (See Donnelly and Ayer.)						
Ayer, Alfred, Lake Weir, Fla. Machine for sizing oranges and other fruit	363,974	May 31	2723	{ 705 706 }	{ 39 }	1016
Ayer, Henry, assignor to M. A. Pinto, Boston, Mass. Siphon apparatus	374,726	Dec. 13	795	208	41	1211
Ayer, John W., Chicago, Ill. Combined vent and stopper	373,763	Nov. 22	2235	598	41	917
Ayers, James B. (See Brink and Ayers.)						
Aylsworth, Harry E., Ashland, Kans. Egg-carrier	365,721	June 28	2230	581	39	1534
Aylward, Nicholas K., et al. (See Malcolm, Robert J., assignor.)						
Aylworth, Daniel W., Adrian, Mich. Hedge fence	361,039	Apr. 12	934	236	39	177
Ayres, Abraham, New York, N. Y. Turn-table	360,791	Apr. 5	553	144	39	104
Ayres, G. Ralston, et al. (See Hand, James, assignor.)						
Ayres, G. Ralston, Philadelphia, Pa. Horse-blanket attachment	373,764	Nov. 22	2236	598	41	917
Ayres, James, et al. (See Decker, Alexander C. and O. J., assignors.)						
Ayres, Louis H., et al. (See Hand, James, assignor.)						
Ayres, Peter, et al. (See Decker, Alexander C. and O. J., assignors.)						
Ayres, Ruben B., St. Louis, Mo. Indicator device	358,183	Feb. 22	2100	554	38	834
Ayres, Ruben B., St. Louis, Mo. Folding bed	371,871	Oct. 18	1624	419	41	338
Ayres, William M., et al. (See Hand, James, assignor.)						
B. S. B. Company. (See Maris, Jared, assignor.)						
Babb, Marshal L., assignor of one-half to J. Hamilton, Portland, Me. Hose and pipe coupling	367,578	Aug. 2	325	93	40	513
Babbitt, Joseph M., and P. F. Wood, New Bedford, Mass. Heating apparatus	358,423	Mar. 1	1	1	38	903

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Babbitt, Robert O. (See Brown, William H., assignor.)						
Babbitt, S. William. (See Beach and Babbitt.)						
Babcock, Erskine L., assignor to Falls River Company, Cuyahoga Falls, Ohio. Clutch....	373,425	Nov. 22	1741	461	41	821
Babcock, George H., Cleveland, Ohio. Window-sign	362,350	May 3	385	107	39	549
Babcock, George H., Plainfield, N. J., and C. P. Higgins, Brooklyn, N. Y. Drum-head and manifold for sectional steam-generators	368,564	Aug. 23	1777	473	40	815
Babcock, George H., Plainfield, N. J., and C. P. Higgins, Brooklyn, N. Y. Drum-head and manifold for sectional steam-generators	368,565	Aug. 23	1778	473	40	815
Babcock, Jabez K., and J. P. Champion, Phelps, N. Y. Tube-expander	375,248	Dec. 20	1555	408	41	1365
Babcock, James, Oreana, Ill. Device for salting live stock	369,155	Aug. 30	2605	{ 691 692 }	40	984
Babcock, John, Walton, N. Y. Plow	358,184	Feb. 22	2102	555	38	834
Babcock, Sylvester P., Adrian, Mich. Garment or cuff holder	369,903	Sept. 13	831	220	40	1201
Babcock, William A., Cleveland, Ohio. Fancet apparatus	374,232	Dec. 6	88	22	41	1063
Babcock, William H., Aplington, Iowa. Corn-planter	361,254	Apr. 19	1253	319	39	249
Babendreier, Charles A. (See Brickenstein and Babendreier.)						
Babka, Johan M., Canton, Ohio. Leg-rest for chairs	361,804	Apr. 26	2028	527	39	401
Bachelder, John. (See Briggs, George N., assignor.)						
Bachelder, Joseph H. C., Meriden, Conn. Steam-engine attachment	360,644	Apr. 5	357	90	39	68
Bacher, Peter, Canton, Ohio. Billiard-table leveler	356,816	Feb. 1	100	28	38	442
Bachlott, Richard H., Jr., Savannah, Ga. Combined lamp stand or support and clamp	367,175	July 26	1944	524	40	391
Bachman, Ernest A., Dysart, Iowa. Land-marker	367,579	Aug. 2	326	93	40	514
Bachman, Jacob, Stony Run, Pa. Reaper, binder, and harvester	365,771	July 5	3	1, 2	40	3
Bachner, Joseph, Chicago, Ill. Stem winding and setting watch	371,539	Oct. 18	1136	296	41	240
Bachner, Joseph, assignor to himself and G. A. Harmount, Chicago, Ill. Stem-winding watch	355,752	Jan. 11	633	165	38	134
Bachner, Joseph, assignor to himself and G. A. Harmount, Chicago, Ill. Stem-winding watch	358,424	Mar. 1	2	1	38	903
Bachner, Joseph, assignor to himself and G. A. Harmount, Chicago, Ill. Watchman's time-recorder	359,001	Mar. 8	863	219	38	1067
Bachran, Herrman J., New York, N. Y. Cigar-bunching machine	366,062	July 5	427	{ 116 117 }	40	81
Bachtel, Jacob D., New Berlin, Ohio. Musical instrument	361,110	Apr. 12	1026	259	39	196
Back, John R., assignor of one-half to F. E. Reed, Worcester, Mass. Tool-support for lathes	360,132	Mar. 29	2601	659	38	1417
Backeljau, Theophile, Malines, Belgium. Automatic gas-motor	364,205	June 7	11	3, 4	39	1091
Backman, Per Gunnar, Paris, France. Hoisting apparatus	374,442	Dec. 6	386	{ 101 102 }	41	1119
Backster, George, Jr., and J. F. Reiff, Aurora, Ill. Churn	373,511	Nov. 22	1890	501	41	849
Backstrom, C. Axel, assignor to Backstrom Centrifugal Separator Company, Trenton, N. J. Centrifugal liquid-separator	358,587	Mar. 1	262	60, 61	38	952
Backstrom, C. Axel, Trenton, assignor to Backstrom Centrifugal Separator Company, Camden, N. J. Counter-shaft	363,447	May 24	1939	509	39	861
Backstrom, C. Axel, Trenton, N. J., assignor to Backstrom Centrifugal Separator Company, of New Jersey. Centrifugal liquid-separator	367,778	Aug. 9	647	174	40	581
Backstrom, C. Axel, Trenton, N. J., assignor to Backstrom Centrifugal Separator Company, of New Jersey. Centrifugal liquid-separator	368,045	Aug. 9	1027	276	40	655
Backstrom, C. Axel, Trenton, N. J., assignor to Backstrom Centrifugal Separator Company, of New Jersey. Centrifugal liquid-separator	368,046	Aug. 9	1029	277	40	655
Backstrom, C. Axel, Trenton, N. J., assignor to Backstrom Centrifugal Separator Company, of New Jersey. Centrifugal liquid-separator	368,047	Aug. 9	1031	277	40	656
Backstrom, C. Axel, Trenton, N. J., assignor to Backstrom Centrifugal Separator Company, of New Jersey. Centrifugal liquid-separator	368,048	Aug. 9	1033	278	40	656
Backstrom, C. Axel, Trenton, N. J., assignor to Backstrom Centrifugal Separator Company, of New Jersey. Centrifugal liquid-separator	368,049	Aug. 9	1037	278	40	656
Backstrom Centrifugal Separator Company. (See Backstrom, C. Axel, assignor.)						
Backus, Absalom, Jr., Detroit, Mich. Furnace	365,772	July 5	5	2	40	3
Backus, Absalom, Jr., Detroit, Mich. Locomotive-furnace	369,156	Aug. 30	2606	692	40	985
Backus Manufacturing Company. (See Cissell, Robert B., assignor.)						
Backus Manufacturing Company. (See Murray, Peter, Jr., assignor.)						
Backus Manufacturing Company of New Jersey. (See Murray, Peter, Jr., assignor.) (Re-issue.)						
Backus, Oscar J., San Francisco, Cal. Blower for stoves or grates	374,334	Dec. 6	232	62	41	1090
Backus, Quimby S., Winchendon, Mass. Radiator	374,333	Dec. 6	231	62	41	1089
Backus, Quimby S., Winchendon, Mass. Heat-radiating mantel	374,649	Dec. 13	688	181	41	1190
Backus, William T., Jr., Portsmouth, Va. Apparatus for resweating tobacco	370,846	Oct. 4	142	38, 39	41	29
Bacon, Alfred, assignor to G. F. Bechmann, F. L. Carnell, and S. Allen, Philadelphia, Pa. Mechanism for cutting double pile fabrics	359,048	Mar. 8	920	{ 234 235 }	38	1078
Bacon, Edward H., San Antonio, Tex. Brake for vehicles	372,194	Oct. 25	2113	543	41	436
Bacon, Elias S., Albion, N. Y. Ladder-spike	375,249	Dec. 20	1555	408	41	1365
Bacon & Harnsberger. (See Doolittle, George W., assignor.)						
Bacon, Henry, Charleston, Me. Manufacture of artificial stone and cement	368,269	Aug. 16	1360	.....	40	725
Bacon, Henry S., Milford, Mass. Metal-banding implement	366,293	July 12	742	201	40	148
Bacon, Joseph H., Detroit, Mich. Angle-valve	371,540	Oct. 18	1137	296	41	240
Bacon, Randall G., et al. (See Root, Miles C., assignor.)						
Bacon, Walter R., London, England. Apparatus for cutting or dividing card-board or pasteboard	357,445	Feb. 8	1006	{ 265 266 }	38	617
Bacon, Walter R., London, England. Apparatus for numbering tickets	363,193	May 17	1598	419	39	788
Bacon, Walter R., London, England. Numbering apparatus	363,975	May 31	2726	706	39	1016
Bacon, Walter R., London, England. Cutting and delivering apparatus	370,672	Sept. 27	1979	{ 524 525 526 527 }	40	1428
Bade, Albert. (See Jacobson and Bade.)						
Bade, Gerrit H., Austin, Nev. Station-indicator	359,121	Mar. 8	1014	262	38	1097
Bade, Gerrit H., Austin, Nev. Station-indicator	367,580	Aug. 2	327	94	40	514
Baden, Thomas E., assignor of one-half to B. F. Guy and H. O. Towles, Washington, D. C. File-holder	361,975	Apr. 26	2284	594	39	447
Bader, Benjamin F. (See Bader, William and B. F.)						
Bader, William and B. F., Baders, Ill. Hay rake and loader	357,446	Feb. 8	1008	267	38	617
Badger, Benjamin M., Summerton, S. C. Cartridge loader and crimper	356,975	Feb. 1	326	87	38	482
Badger, George M., assignor of one-half to W. C. McCall, Quitman, Ga. Fifth-wheel	363,976	May 31	2727	707	39	1016
Badger, James B., Oneida, N. Y. Kindergarten apparatus for teaching arithmetic	357,889	Feb. 15	1672	435	38	751
Badgley, Eugene F., San Francisco, Cal. Air-tight butter or other produce package	372,285	Nov. 1	3	1	41	471
Badische Anilin and Soda Fabrik. (See Bohn, René, assignor.)						
Badische Anilin and Soda Fabrik. (See Römer, Adolph, assignor.)						
Badlam, Edgar B., San Francisco, Cal. Cable-railway crossing and curve	371,660	Oct. 18	1302	338	41	273

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Baecker, Louis, Detroit, Mich. Printer's galley	374,109	Nov. 29	2736	734	41	1022
Baer, Francis M., Waco, Nebr. Ironing-board and clothes-rack	366,294	July 12	742	201	40	148
Baer, John D., Detroit, Mich. Corn-planter	370,595	Sept. 27	1869	496	40	1407
Baer, Leopold, San Francisco, Cal. Collar-button	357,358	Feb. 8	883	232	38	594
Baer, Lucien, and D. Kraemer, New York, N. Y. Wall-paper or other fabric	356,437	Jan. 25	1637	429	38	335
Baer, Lucien, and D. Kraemer, New York, N. Y. Wall-paper	369,157	Aug. 30	2607	.....	40	985
Baeza, Isidore L., <i>et al.</i> (See Homans, Charles A., assignor.)						
Bagaley, Ralph, Pittsburg, Pa. Manufacture of steel forgings	356,974	Feb. 1	322	87	38	482
Bagaley, Ralph, Pittsburg, Pa. Manufacture of molds for casting	357,303	Feb. 8	819	{ 212 213 }	{ 38 38 }	582
Bagaley, Ralph, Pittsburg, Pa. Crane	369,423	Sept. 6	156	45	40	1061
Bagaley, Ralph, Pittsburg, Pa. Machine for compressing and finishing circular metallic articles	371,813	Oct. 18	1533	396	41	320
Bagaley, Ralph, and W. Hainsworth, Pittsburg, Pa. Metal-rolling machine	374,335	Dec. 6	233	62, 63	41	1090
Bagger, Louis, assignor of one-half to A. Peterson, Washington, D. C. Primer for igniting explosives	359,491	Mar. 15	1542	394	38	1202
Bagwell, Abner K., Plainsburg, Cal. Lifting-jack	363,194	May 17	1599	420	39	788
Bahmann & Hoehn. (See Miles, Patrick J., assignor.)						
Bahr, Daniel. (See Bahr, Frederick A. and D.)						
Bahr, Frederick A. and D., Brooklyn, N. Y. Demijohn, &c	372,951	Nov. 8	1006	271	41	664
Bail, Philip V., assignor of three-fourths to B. Eiseman, J. W. Rowe, and W. Bail, St. Louis, Mo. Self-closing hatchway	364,884	June 14	981	258	39	1279
Bail, Simon, New York, N. Y. Horse-detacher	372,287	Nov. 1	4	2	41	471
Bail, William, <i>et al.</i> (See Bail, Philip V., assignor.)						
Bailey, Alexander S., Seney, Ga. Car-coupling	372,286	Nov. 1	4	1	41	471
Bailey, Benjamin T. (See Littell and Scofield, assignors.)						
Bailey, Benjamin T. (See Wolverson, George, assignor.)						
Bailey, Charles A., Middletown, Conn. Mold for ornamenting cake	360,753	Apr. 5	504	130	39	94
Bailey, Charles A., assignor to W. H. Chapman & Co., Middletown, Conn. Toy	361,606	Apr. 19	1734	447	39	339
Bailey, Charles A., Middletown, Conn., assignor to H. E. Taylor, New York, N. Y. Cap-lifter for coffins	363,312	May 17	1749	458	39	817
Bailey, Charles S., and W. P. Sheets, Princeton, Mo. Thill-coupling	360,754	Apr. 5	504	130	39	95
Bailey, Columbus D., and J. J. Wester, Dexter City, Mo. Cotton-chopper	364,746	June 14	760	202	39	1240
Bailey, Franklin L., Boston, Mass. Engraver's ruling-machine	363,942	May 31	2664	{ 691 692 }	{ 39 39 }	1004
Bailey, Gilbert L., Portland, Me. Bicycle-holder	369,494	Sept. 6	244	69	40	1080
Bailey, Hannah C., Utica, N. Y. Attachment for beds for invalids	372,288	Nov. 1	5	2	41	472
Bailey, Henry C., New York, N. Y., assignor to T. Porter, Montclair, N. J. Safety-pin	357,890	Feb. 15	1673	435	38	751
Bailey, Henry C., New York, N. Y., assignor to D. W. Ordiorne, Elizabeth, N. J. Umbrella-tie	363,943	May 31	2666	692	39	1005
Bailey, Henry C., New York, N. Y., and T. Porter, Montclair, N. J.; said Bailey assignor to said Porter. Safety-pin	357,891	Feb. 15	1674	436	38	751
Bailey, Henry E., assignor to J. Cox, Albany, N. Y. Apparatus for forcing beer, &c., from barrels, casks, &c.	364,885	June 14	982	259	39	1279
Bailey, Hiram M., Fairwater, Minn. Land-roller	365,773	July 5	6	2	40	4
Bailey, Howard S. (See Hall and Bailey.)						
Bailey, Hugh Q., Nashville, Tenn. Show-case	372,352	Nov. 1	101	29	41	490
Bailey, James G., Richmond Hill, Ontario, Canada. Harrow and cultivator	358,321	Feb. 22	2278	601	38	869
Bailey, James G., Richmond Hill, Ontario, Canada. Making plow-colters	358,828	Mar. 8	605	149	38	1021
Bailey, John, assignor to Illinois Iron and Bolt Company, Carpentersville, Ill. Drilling-machine	366,366	July 12	839	226	40	166
Bailey, John, assignor to Illinois Iron and Bolt Company, Carpentersville, Ill. Hydraulic press	366,367	July 12	843	{ 226 227 }	{ 40 40 }	167
Bailey, John J., New York, N. Y. Instrument for curing meat	365,895	July 5	193	49	40	38
Bailey, John M., Lee's Summit, Mo. Combined pulverizer	362,241	May 3	249	71	39	521
Bailey, Mark, and J. Warner, London, England. Device for preventing the escape of noxious fumes from batteries	363,880	May 31	2571	668	39	988
Bailey, Mark, and J. Warner, London, England. Primary battery	371,244	Oct. 11	722	185	41	150
Bailey, Michael B. (See Powers, Jesse, assignor.)						
Bailey, Pryce W., Seneca Falls, N. Y. Extension-ladder	375,250	Dec. 20	1556	408	41	1365
Bailey, Reade W., assignor to Robinson-Rea Manufacturing Company, Pittsburg, Pa. Shifting device for feed-tables of rolling-mills	364,392	June 7	251	70, 71	39	1136
Bailey, Samuel R., Amesbury, Mass. Sleigh	355,855	Jan. 11	785	206	38	159
Bailey, Selden A., New London, Conn. Vehicle-spring	357,753	Feb. 15	1487	390	38	716
Bailey, Thomas, New York, N. Y. Fire-proof partition	369,680	Sept. 13	512	142	40	1142
Bailey, William H., assignor of one-half to R. Morgan, Pittsburg, Pa. Reheating-furnace for sheet iron or steel	357,447	Feb. 8	1009	267	38	618
Bailey, Wilnot G., Burgettstown, Pa. Mechanical glass-blower	360,552	Apr. 5	236	59	39	46
Baily, Mifflin W., Pottstown, Pa. Heat-regulator	359,002	Mar. 8	864	219	38	1068
Bain, Forée, Chicago, Ill. Controlling valves by electricity	356,024	Jan. 11	1036	272	38	209
Bain, Forée, Chicago, Ill. Lubricator	360,405	Apr. 5	5	2	39	3
Bain, Robert E. M., assignor of one-half to E. W. Pike, St. Louis, Mo. Shutter for photographic cameras	370,673	Sept. 27	1983	527	40	1429
Bainbridge, John, Trenton, N. J. Boiler-feeding and water-forcing device	366,912	July 19	1586	425	40	317
Baines, John, Piqua, Ohio. Shelf-bracket	361,111	Apr. 12	1028	260	39	196
Baird, George W., Hendersonville, N. C. Harness	363,881	May 31	2573	668	39	988
Baird, George W., U. S. Navy. Interchangeable boiler-feed and steam-trap	368,641	Aug. 23	1874	500	40	833
Baird, George W., U. S. Navy. Steam-generator	368,642	Aug. 23	1876	500	40	834
Baird, William C., Scarborough, assignor of one-half to J. W. Williams, Brooklyn, N. Y. Lamp	355,908	Jan. 11	874	229	38	177
Baird, William R. (See Crawford, Middleton, assignor.)						
Baisch, Fred, <i>et al.</i> (See Kees, Herman, assignor.)						
Baittinger, Charles L. (See Leiby and Baittinger.)						
Baker Adjustable Bearing Company. (See Baker, Jackson R., assignor.)						
Baker, Allen S., Evansville, Wis. Windmill	370,756	Oct. 4	3	1, 2	41	3
Baker, Archibald M., Bangor, Dak. Ter. Power-lifter for grain-drill hoes	361,040	Apr. 12	935	236	39	177
Baker, Charles F., Boston, Mass. Shank-stiffener	362,923	May 17	1220	325	39	713
Baker, Chauncey D., Chicago, Ill. Electrical resistance-coil	368,804	Aug. 23	2112	559	40	878
Baker, Chauncey D., Chicago, Ill. Governor for incandescent lights on arc circuits	371,915	Oct. 25	1692	{ 438 439 }	{ 41 41 }	360
Baker, Chauncey D., Chicago, Ill. Commutator or electric circuit-breaker	375,328	Dec. 27	1665	437	41	1395
Baker, Clayton W., Jamestown, N. Y. Card-holder	372,445	Nov. 1	238	66	41	515
Baker, Delos R., Cincinnati, Ohio. Motor	366,551	July 12	1080	293	40	215

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Baker, E. Freeman, Orchard Park, N. Y. Combined plow and pulverizer	355,292	Jan. 4	3	1	38	3
Baker, Elijah E., Cambridgeport, Mass. Drawing mechanism for spinning and twisting machines, &c	372,056	Oct. 25	1904	491	41	398
Baker, Ellis L. (See Baker, William H. and E. L.)						
Baker, Francis R., Birmingham, county of Warwick, assignor to Evered & Company, (limited,) London, England. Lamp-burner	359,122	Mar. 8	1016	262	38	1098
Baker, Francis R., Birmingham, county of Warwick, assignor to Evered & Company, (limited,) London, England. Lamp-extinguisher	359,123	Mar. 8	1017	262	38	1098
Baker, George A. (See Pershing, Henry A., assignor.)						
Baker, George B. (See Burk, Marshall B., assignor.)						
Baker, George C., Des Moines, Iowa. Mechanism for propelling vessels	358,425	Mar. 1	3	1	38	903
Baker, George E. and W. H., Elkhart, Ind. Fire-kindler	375,309	Dec. 20	1638	429	41	1381
Baker, George W., Wilmington, Del. Leather-staking machine	372,507	Nov. 1	325	89	41	532
Baker, Harry C., Salt Lake City, Utah Ter. Stove-hole cover	369,040	Aug. 30	2450	650	40	953
Baker Heater Company. (See Baker, William C., assignor.)						
Baker, Horace Z., Pawtucket, R. I. Adjustable runner for vehicles	362,242	May 3	251	71	39	522
Baker, Jackson R., Jersey City, N. J., assignor to Baker Adjustable Bearing Company, New York, N. Y. Car-axle box	370,034	Sept. 20	1049	278	40	1248
Baker, Jackson R., J. Craig, and G. Singleton, Jersey City, N. J.; said Singleton assignor to said Baker and Craig. Pencil-sharpener	370,001	Sept. 13	988	260	40	1228
Baker, Jacob M., Boston, Mass. Stair-pad	363,353	May 24	1810	475	39	837
Baker, Jacob M., Boston, Mass., assignor, by mesne assignments, to American Decorative Company, of Maine. Machine for embossing leather, paper, &c	366,755	July 19	1388	371	40	279
Baker, Jacob S. (See Ritchel, Charles F., assignor.)						
Baker, Jacob W., and G. A. Prescott, Dover, N. J. Car-coupling	355,909	Jan. 11	875	229	38	177
Baker, Jacob W., and G. A. Prescott, Dover, N. J. Car-coupling	367,948	Aug. 9	892	242	40	629
Baker, James E., Homer, La. Plow	372,103	Oct. 25	1977	508	41	411
Baker, James H., and G. F. Shevlin, Saratoga Springs, N. Y. Steam-heater	355,807	Jan. 11	711	186	38	147
Baker, James H., and G. F. Shevlin, Saratoga Springs, N. Y. Steam-heater	355,808	Jan. 11	712	186	38	147
Baker, James H., and G. F. Shevlin, Saratoga Springs, N. Y. Pipe-vise	363,041	May 17	1392	367	39	747
Baker, James M., assignor to J. Clough, Providence, R. I. Barber's chair	355,854	Jan. 11	783	206	38	159
Baker, James S., et al. (See Byam, Eber C., assignor.)						
Baker, John, Chicago, Ill. Nut-lock	367,084	July 26	1823	491	40	369
Baker, John, Muscatine, Iowa. Apparatus for heating and canning food	369,424	Sept. 6	157	46	40	1062
Baker, John A., et al. (See Evans, W. Warrington, assignor.)						
Baker, John C., Mechanicsburg, Ohio. Syringe	356,185	Jan. 18	1274	336	38	258
Baker, John E., New York, N. Y. Signal apparatus	367,019	July 26	1727	465	40	351
Baker, John M., Paola, Kans. Signal for telephone-instruments	373,043	Nov. 15	1155	309	41	701
Baker, John M., Allentown, Pa. Rolling bars for angle-iron	374,770	Dec. 13	858	{ 225 226 }	{ 41 39 }	1224
Baker, Oscar H., Farmington, Minn. Bed-bottom	361,665	Apr. 26	1835	475	39	367
Baker, Richard C., London, England. Nursing-bottle	358,008	Feb. 22	1835	485	38	787
Baker, Samuel, Buffalo, N. Y. Whip-button	364,886	June 14	984	259	39	1280
Baker, Scipio E., Springfield, Ohio. Burial-casket	358,009	Feb. 22	1836	{ 485 486 }	{ 38 38 }	787
Baker, Seth, Colorado Springs, Colo. Coffin-platform	356,237	Jan. 18	1347	356	38	273
Baker, Stewart E., Binghamton, N. Y. Paper box	362,481	May 10	583	{ 163 164 }	{ 39 39 }	591
Baker, Theodore, assignor to H. P. Mosher, Stillwater, N. Y. Paper-bag machine	373,876	Nov. 29	2403	{ 645 646 }	{ 41 41 }	956
Baker, William C., New York, N. Y. Gage-cock for boilers	368,441	Aug. 16	1597	426	40	772
Baker, William C., assignor to Baker Heater Company, New York, N. Y. Safety-vent for steam-boilers	372,289	Nov. 1	7	3	41	472
Baker, William C., assignor to Baker Heater Company, New York, N. Y. Railway-car heater	374,336	Dec. 6	236	63	41	1091
Baker, William H. (See Baker, George E. and W. H.)						
Baker, William H., Oxford, assignor of one-half to S. W. Smith, Pontiac, Mich. Draft-equalizer	367,739	Aug. 2	586	159	40	561
Baker, William H., Oxford, assignor of one-half to S. W. Smith, Pontiac, Mich. Draft-equalizer	367,740	Aug. 2	587	160	40	562
Baker, William H., Ithaca, and E. L. Baker, Syracuse, N. Y. Making fifth-wheel blocks	373,263	Nov. 15	1485	392	41	762
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Grain-binder	357,140	Feb. 1	591	152	38	529
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Butt-adjuster for grain-binders	357,141	Feb. 1	593	{ 152 153 }	{ 38 38 }	530
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Mower	361,607	Apr. 19	1733	{ 447 448 }	{ 39 39 }	339
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Bundle-carrier for automatic grain-binders	361,976	Apr. 26	2284	{ 594 595 }	{ 39 39 }	447
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Bundle-carrier for grain-binders	361,977	Apr. 26	2286	595	39	447
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Bundle-carrier for grain-binders	361,978	Apr. 26	2289	596	39	448
Baker, William R., and H. E. Pridmore, assignors to McCormick Harvesting Machine Company, Chicago, Ill. Grain-binder	370,304	Sept. 20	1420	382	40	1318
Baker, William S. G., Baltimore, Md. Dust-guard for car-axle boxes	361,255	Apr. 19	1254	320	39	249
Bakewell, Paul. (See Furrell, Edward W., assignor.)						
Bakewell, Paul. (See Ramel and Dean, assignors.)						
Balch, Samuel W. (See Smith and Balch.)						
Balcom, Timothy, Worcester, and W. H. Allen, Jr., West Brookfield, Mass. Seamless upper for boots or shoes	361,478	Apr. 19	1552	402	39	305
Balcom, Timothy, Worcester, and W. H. Allen, Jr., West Brookfield, Mass. Machine for making seamless shoe-uppers	362,699	May 10	901	{ 245 246 }	{ 39 39 }	648
Balcom, Timothy, Worcester, and W. H. Allen, Jr., assignors of one-third to A. N. Makepeace, West Brookfield, Mass. Shoe	374,515	Dec. 6	490	128	41	1141
Baldrige, Herman, Los Angeles, Cal. Bridle-bit	365,958	July 5	289	76.77	40	55
Baldrige, George W., St. Louis, Mo. Type-writing machine	375,251	Dec. 20	1558	{ 408 409 }	{ 41 41 }	1365
Baldt, Frederick. (See Goettel, John, assignor.)						
Baldwin, Albert O., deceased, L. J. Baldwin, administratrix and assignor of three-fourths to J. S. C. Sowar and J. Bogle, Brazil, Ind. Freight-car	370,720	Sept. 27	2062	{ 546 547 }	{ 40 40 }	1443
Baldwin, Byron, assignor to Thomson, Langdon & Co., New York, N. Y. Corset and making the same	358,249	Feb. 22	2179	574	38	850
Baldwin, Chester M., assignor of one-half to J. Nichols, Bronson, Mich. Whip-lock	373,713	Nov. 22	2170	580	41	905

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Name, residence and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Baldwin, Cyrus W., Yonkers, N. Y., assignor to Hydraulic Elevator Company, Chicago, Ill. Brake apparatus for elevators	358,322	Feb. 22	2279	602	38	869
Baldwin, Cyrus W., Yonkers, N. Y., assignor to Hydraulic Elevator Company, Chicago, Ill. Pumping-engine	368,442	Aug. 16	1597	{ 426 427 }	{ 40 }	772
Baldwin, Cyrus W., Yonkers, N. Y., assignor to W. E. Hale, Chicago, Ill. Speed-regulating device for engines	368,443	Aug. 16	1599	{ 427 428 }	{ 40 }	773
Baldwin, Cyrus W., Yonkers, N. Y., assignor to W. E. Hale, Chicago, Ill. Gas-engine	368,444	Aug. 16	1601	{ 428 429 }	{ 40 }	773
Baldwin, Cyrus W., Yonkers, N. Y., assignor to W. E. Hale, Chicago, Ill. Gas-engine	368,445	Aug. 16	1605	{ 429 430 }	{ 40 }	774
Baldwin, Cyrus W., Yonkers, N. Y., assignor to W. E. Hale, Chicago, Ill. Governor	368,446	Aug. 16	1611	{ 430 431 }	{ 40 }	775
Baldwin, Frank, New York, N. Y. Seam-dampener	359,003	Mar. 8	865	219	38	1068
Baldwin, Frank S., Detroit, Mich. Lumber-measure	367,261	July 26	2080	562	40	417
Baldwin, Franklin T., Baldwinsville, N. Y. Tin-roofing machine	373,215	Nov. 15	1424	376	41	751
Baldwin, Frederick P., Elmira, N. Y. Burnishing-machine for boots or shoes	361,805	Apr. 26	2029	527	39	401
Baldwin, James H. (See Oehrle, Emanuel, assignor.)						
Baldwin, James S., Newark, N. J., and B. W. Bradford, New York, N. Y., assignors to themselves and S. A. Farrand, Newark, N. J. Hot-air engine	355,633	Jan. 4	442	122	38	87
Baldwin, James S., Newark, N. J., and B. W. Bradford, New York, N. Y., assignors to themselves and S. A. Farrand, Newark, N. J. Engine deriving its power from the expansion of air or gas	355,634	Jan. 4	450	{ 122 123 }	{ 38 }	89
Baldwin, John A. (See Clay, Moses W., assignor.)						
Baldwin, Lizzie J., administratrix. (See Baldwin, Albert O.)						
Baldwin, Luther C., Manchester, N. H. Spinning-bobbin, &c	366,196	July 12	607	165	40	123
Baldwin, Ozro J., North Clarendon, Pa. Oil-well pump and scraper	355,675	Jan. 11	521	137	38	111
Baldwin, Richard D., F. Doyle, and A. A. Thomas, Chicago, Ill., assignors to J. W. Traer, Cedar Rapids, Iowa, and said Baldwin. Furnace	374,285	Dec. 6	156	41	41	1077
Baldwin, Stephen G., Marion, Ind. Creaming-can	362,812	May 10	1060	288	39	678
Baldwin, William J. (See Smith and Baldwin.)						
Baldwin, Winfield H., Norwalk, Conn. Dental plugger	356,221	Jan. 18	1324	350	38	268
Balé, Jean. (See Worms and Balé.)						
Bales, Alanson H. and E. C., Washington, Kans. Machine for weaving thatching	365,424	June 28	1781	{ 463 464 }	{ 39 }	1449
Bales, Edward C. (See Bales, Alanson H. and E. C.)						
Bales, Joel F., assignor of one-half to J. S. Hiatt, Winchester, Ind. Whiffletree	373,328	Nov. 15	1583	419	41	781
Bales, Thomas M., Dublin, assignor of one-half to W. F. Medsker, Cambridge City, and J. F. Hatfield, Dublin, Ind. Door-bell	372,590	Nov. 1	450	121	41	555
Balestier, John A., trustee. (See Fogarty, Thomas B., assignor.)						
Baley, Amos. (See Dunlop and Baley.)						
Balkwill, Percy S., assignor of one-half to W. J. Rattle, Cleveland, Ohio. Crusher for ores	370,002	Sept. 13	990	{ 260 261 }	{ 40 }	1229
Ball, Albert. (See Essex and Ball.)						
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Core-breaker for annular rock-drills	366,913	July 19	1589	425	40	317
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Core-breaker for annular rock-drills	366,914	July 19	1590	425	40	317
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Cop-building mechanism for ring-spinning frames	374,816	Dec. 13	924	241	41	1236
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Prospecting or boring tube	374,817	Dec. 13	926	242	41	1237
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Drill channeling-machine	374,818	Dec. 13	927	242	41	1237
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Core catcher and breaker	374,819	Dec. 13	929	242	41	1237
Ball, Alonzo C., Gallatin, Mo. Wagon-tongue support	357,892	Feb. 15	1675	436	38	751
Ball and Socket Fastener Company. (See Carpenter, Daniel A., assignor.)						
Ball, Artemas E., Rushford, Minn. Seeding-machine	356,438	Jan. 25	1637	429	38	335
Ball, Calvin S., Jr., Syracuse, N. Y. Shutter-fastener	360,406	Apr. 5	6	2	39	3
Ball, Charles E., Philadelphia, Pa., assignor to C. A. Cheever, trustee, New York, N. Y. Electric rock-drill	362,053	May 3	3	1	39	473
Ball, Clinton M., Boston, Mass., and T. J. McTighe, New York, N. Y. Mail-box indicator	363,574	May 24	2134	553	39	900
Ball, Frank H., Erie, Pa. Engine-governing device	358,829	Mar. 8	605	{ 149 150 }	{ 38 }	1021
Ball, Harry M. (See McArthur, Robert X., assignor.)						
Ball, Hiram W., et al. (See Syverson, Carl, assignor.)						
Ball, Joseph W. (See Plank, David C., assignor.)						
Ball, Madison H., et al. (See Syverson, Carl, assignor.)						
Ball, Phinehas. (See Ball, Sawyer, assignor.)						
Ball, Robert, Stanton, Mich. Road-cart	361,112	Apr. 12	1029	260	39	196
Ball, Sawyer, Coloma, Mich., assignor to P. Ball, Worcester, Mass. Weaver's combined comb and reed-hook	362,700	May 10	903	246	39	649
Ball, Thomas H. (See Florsheim, Simon, assignor.)						
Ball, Thomas W., Jersey City, N. J. Toaster	359,417	Mar. 15	1438	367	38	1182
Ballantine, Alexander T., Cleveland, Ohio. Dope-cup	360,755	Apr. 5	505	130	39	95
Ballantine, Alexander T., Cleveland, Ohio. Dope-cup	361,916	Apr. 26	2193	568	39	432
Ballantine, Alexander T., Cleveland, Ohio. Lubricator	371,916	Oct. 25	1695	439	41	360
Ballantine, Alexander T., Cleveland, Ohio. Tobacco-package	372,104	Oct. 25	1978	508	41	411
Ballard, Frank W., Richburg, N. Y. Cattle-stanchion	368,180	Aug. 16	1221	327	40	699
Ballard, James, Wausau, assignor of two-thirds to F. Fellows and T. Best, Mosinee, Wis. Ax	370,596	Sept. 27	1870	{ 496 497 }	{ 40 }	1407
Ballard, James W., and H. L. Fisher, Toledo, Iowa, assignors to Howe Manufacturing Company. Ditching-machine	370,518	Sept. 27	1751	{ 466 467 }	{ 40 }	1385
Ballard, John H., Jr., Cohoes, N. Y. Apparatus for heating railway-cars	366,445	July 12	931	254	40	185
Ballard, John J., Terrell, Tex. Cotton-chopper	372,008	Oct. 25	1821	472	41	383
Ballard, John J., Terrell, Tex. Cotton-seed dropper	372,009	Oct. 25	1822	472	41	384
Ballard, John T. (See Yous, John W., assignor.)						
Ballard, Luther W., Alliance, Ohio. Dental-engine brush	361,806	Apr. 26	2031	527	39	401
Ballew, John C., Evansville, Ind. Apparatus for removing gum from saws	358,323	Feb. 22	2280	602	38	869
Ballew, John C., Evansville, Ind. Guide for machines for sawing hoops	361,979	Apr. 26	2292	596	39	448
Ballew, John C., Evansville, Ind. Machine for sawing barrel-hoops	372,446	Nov. 1	239	67	41	515
Ballew, John C., Evansville, Ind. Machine for setting saws	374,032	Nov. 29	2621	{ 703 704 }	{ 41 }	999
Ballinger, Levi G., East Liberty, Ohio. Vehicle-tire coupler	367,581	Aug. 2	330	94	40	515

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Ballantine, Charles L., <i>et al.</i> (See Livengood, Winfield S., assignor.)						
Ballmann, John. (See Ping, Robert G., assignor.)						
Balloch, Charles, New York, N. Y. Telephone-cabinet	359,492	Mar. 15	1545	395	38	1203
Balloch, Edward A., Washington, D. C. Resonant attachment for telephones	370,847	Oct. 4	143	39	41	29
Ballou, Daniel R., <i>et al.</i> (See Powell, Edwin R., assignor.)						
Ballou, George F., Waltham, Mass. Drilling-fixture for lathes	359,375	Mar. 15	1360	352	38	1169
Ballou, George F., Waltham, Mass. Work-clamp for slide-lathes	359,376	Mar. 15	1363	352	38	1169
Ballou, George F., Waltham, Mass. Gear-cutting device for lathes	359,377	Mar. 15	1366	{ 352 } { 353 }	{ 38 } { 38 }	1170
Ballou, George F., Waltham, Mass. Graduating-machine	359,378	Mar. 15	1374	{ 353 } { 354 }	{ 38 } { 38 }	1171
Ballou, George F., Waltham, Mass. Work-holder for lathes	359,379	Mar. 15	1382	354	38	1172
Ballou, George F., Waltham, Mass. Lathe for turning balls, wheels, &c	359,380	Mar. 15	1384	354	38	1172
Ballou, George F., Waltham, Mass. Slide-lathe	359,381	Mar. 15	1387	355	38	1172
Baloun, Joseph. (See Lichtenberg and Baloun.)						
Balsar, David M., Duluth, Minn. System of blind-nailing	356,238	Jan. 18	1349	356	38	273
Baltimore and Ohio Telegraph Company. (See Gardanier, George W., assignor.)						
Baltimore and Ohio Telegraph Company. (See Larish, Joseph W., assignor.)						
Baltimore and Ohio Telegraph Company. (See Larish and Maver, assignors.)						
Baltimore Can Manufacturing Company. (See Stevenson, William H. H., assignor.)						
Baltzley, Henry H., Assumption, Ill. Backwater and animal gate	364,206	June 7	13	4	39	1091
Baltzly, Stephen, Livingston, Cal. Whiffletree	372,353	Nov. 1	102	30	41	490
Bancroft, John S. (See Sellers and Bancroft.)						
Bancroft, John S., and W. Lewis, assignors to W. Sellers & Company, Philadelphia, Pa. Tumbler-bearing	373,765	Nov. 22	2237	{ 599 } { 600 } { 601 }	{ 41 } { 41 }	917
Bancroft, William, assignor of one-half to Hopedale Machine Company, Hopedale, Mass. Lifting-wire for stop-motions of warping-machines	368,050	Aug. 9	1039	279	40	657
Bane, William H., Gallipolis, Ohio. Crushing and grinding mill	359,659	Mar. 22	1821	463	38	1270
Banfield, Julia D., Boston, Mass. Garment-supporter	355,369	Jan. 4	103	28	38	22
Banfill, William C., Ipswich, Mass. Axle-lubricator	357,565	Feb. 15	1204	317	38	665
Bang, Ivar A. F., and M. C. A. Ruffin, Paris, France. Apparatus for purifying crude spirit and regenerating the purifying agent	370,674	Sept. 27	1984	528	40	1429
Bang, Ivar A. F., and M. C. A. Ruffin, Paris, France. Purifying crude spirit	370,675	Sept. 27	1986	528	40	1430
Banger, George S., <i>et al.</i> (See Parker and Gunning, assignors.)						
Banghart, Andrew B. (See Treat and Banghart.)						
Bangley, Joseph L., Petersburg, Va. Car-heater	367,693	Aug. 2	507	139	40	546
Bangs, David E., Medford, Mass. Grate	371,917	Oct. 25	1696	439	41	361
Banker, George W., Brooklyn, N. Y. Faucet for oil-cans	359,704	Mar. 22	1890	480	38	1283
Banker, George W., Brooklyn, N. Y. Faucet and nozzle for cans	365,563	June 28	2001	521	39	1493
Banker, George W., Brooklyn, N. Y. Paint and paint compound	369,385	Sept. 6	105	.....	40	1053
Banks, Charles M., deceased; E. J. Banks, Philadelphia, Pa., administratrix. Baby-carriage	357,566	Feb. 15	1204	{ 317 } { 318 }	{ 38 } { 38 }	665
Banks, Charles W., assignor to G. G. Thomson, Philadelphia, Pa. Spool-cradle for sewing-machines	359,198	Mar. 8	1110	289	38	1115
Banks, Ella J., administratrix. (See Banks, Charles M.)						
Banks, George, Oakfield, Mich. Seat for agricultural machines	357,059	Feb. 1	445	118	38	504
Banks, Henry F., Flagg, Ill. Buckle	370,757	Oct. 4	6	2	41	4
Banks, Lyman, Muscatine, Iowa. Convertible cot	358,528	Mar. 1	176	41	38	935
Bannatyne, Archibald, Waterbury, Conn. Clock-case	374,516	Dec. 6	492	128	41	1141
Bannatyne, Archibald, assignor to Waterbury Clock Company, Waterbury, Conn. Bearing	356,521	Jan. 25	1752	456	38	357
Banner, John W., Banner's Elk, N. C. Animal-shears	374,233	Dec. 6	89	22	41	1064
Bannigan, Christopher J. (See Ricke and Bannigan.)						
Bannih, Caesar R., West Cheshire, Conn. Button ornamenting and engraving machine	357,264	Feb. 8	764	199	38	571
Bannih, Caesar R., West Cheshire, Conn. Velocipede-handle-bar fastening	363,354	May 24	1811	475	39	837
Bannih, Caesar R., West Cheshire, Conn. Luggage-carrier for bicycles	363,355	May 24	1811	476	39	837
Bannister, Lemuel. (See Barclay, William C., assignor.)						
Bannister, Oscar B., Sandusky, Ohio. Wheel-hub	362,701	May 10	904	246	39	649
Banta, George W., New Haven, Conn. Printer's copy-holder	357,893	Feb. 15	1676	436	38	751
Banta, Henry J., Logansport, Ind. Brake for vehicles	360,195	Mar. 29	2694	680	38	1435
Bantley, Constantine. (See Northup, Benjamin, assignor.)						
Barager, Winfield S., and A. L. Long, Dalton, N. Y. Buckboard-buggy	358,010	Feb. 22	1838	486	38	787
Barbanson, John B. C., San Francisco, Cal. Lubricant	359,418	Mar. 15	1438	.....	38	1183
Barber, Anna E., Brodhead, Wis. Fruit-preserver	370,035	Sept. 20	1051	278	40	1248
Barber, Arthur J., Auburn, assignor of one-half to C. D. Gaylord, Sodus, N. Y. Reversible seat	368,270	Aug. 16	1361	{ 358 } { 359 }	{ 40 } { 40 }	725
Barber, Arthur J., assignor of one-half to C. D. Gaylord, Auburn, N. Y. Wrench	370,848	Oct. 4	145	39	41	29
Barber, Arthur J., Auburn, assignor of one-half to C. D. Gaylord, Sodus, N. Y. Car-window	371,245	Oct. 11	723	{ 185 } { 186 }	{ 41 } { 41 }	150
Barber Asphalt Paving Company. (See Franke, Henry, assignor.)						
Barber, Charles E., Plattsburg, N. Y. Sofa-bed	373,329	Nov. 15	1585	419	41	781
Barber, Edward F., Ionia, Mich. Boiler attachment	357,894	Feb. 15	1677	436	38	751
Barber, Edwin J. (See White, Thomas F., assignor.)						
Barber, James F., Broken Arrow, Ala. Harness	361,917	Apr. 26	2194	569	39	432
Barber, James T., Hannibal, Mo. Device for binding together lumber, &c. (Reissue)	10,817	Mar. 15	1724	438	38	1235
Barber, Jerome M., and A. W. Lickly, Wright, Mich. Roofing-paint	364,887	June 14	985	.....	39	1280
Barber, John C., St. Paul, Minn. Car-truck	370,758	Oct. 4	7	2	41	4
Barber, John D., Cleveland, Ohio. Feed-trough	371,918	Oct. 25	1697	440	41	361
Barber, John W., Newton, and A. Anderson, Boston, Mass.; said Anderson assignor to said Barber. Paper-file	368,566	Aug. 23	1779	473	40	815
Barber, Joseph G., Brodhead, Wis. Gate	355,293	Jan. 4	3	1	38	3
Barber, Joshua W., Lachland, Ill. Check-row attachment	362,924	May 17	1920	325	39	713
Barber, Orson F., Burr Oak, Kans. Harrow	361,853	Apr. 26	2104	546	39	415
Barber, Orson F., assignor of two-thirds to L. E. Carpenter and G. B. Longstreet, Auburn, N. Y. Fire-escape	370,759	Oct. 4	8	3	41	4
Barber, Thomas, Flatbush, N. Y. Pulley-block hook	364,079	May 31	2855	741	39	1043
Barber, Thomas, Flatbush, N. Y. Tool-holder	364,080	May 31	2856	741	39	1043
Barbier, Henry. (See Wheeler and Barbier.)						
Barbour, Edwin S. (See Wood, Alfred, assignor.)						
Barclay, James A., assignor of one-half to G. B. Woodward, St. Paul, Minn. Automatic hatchway-guard	372,057	Oct. 25	1906	491	41	398
Barclay, Peter, Winthrop, Mass. Safety water-gage	369,904	Sept. 13	832	220	40	1201
Barclay, Peter, East Boston, Mass. Safety water-gage valve	375,409	Dec. 27	1769	463	41	1414

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Barclay, William C., Wellsburg, W. Va., assignor to L. Bannister, Chicago, Ill. Pipe-joint.	365,425	June 28	1783	464	39	1449
Bard, Cephas L., San Buenaventura, Cal. Whip-socket, oil-can, and wrench	367,497	Aug. 2	210	60	40	492
Bard, Cephas L., San Buenaventura, Cal. Checkrein attachment.	368,447	Aug. 16	1613	431	40	776
Bard, Edmund F., New York, N. Y. Electric synchronizing attachment for clocks.	369,386	Sept. 6	106	32	40	1053
Bard, James H., assignor to American Wire Hoop Company, Jackson, Tenn. Machine for splicing wire hoops for barrels, &c	359,004	Mar. 8	866	220	38	1068
Bardell, Alfred, Brooklyn, N. Y. Pan, dish, or other utensil.	356,343	Jan. 18	1503	395	38	303
Bardell, Alfred, Brooklyn, N. Y. Trowel or scoop.	356,344	Jan. 18	1504	395	38	303
Bardell, Alfred, Brooklyn, N. Y. Pan	369,832	Sept. 13	714	192	40	1178
Bardell, Alfred, Brooklyn, N. Y. Reed-organ	373,714	Nov. 22	2171	581	41	905
Bardill, Maggie, Groton, Dak. Ter. Wash-boiler.	357,895	Feb. 15	1678	437	38	751
Bardin, John B., Fredericksburg, Ohio. Wagon-box	358,588	Mar. 1	264	61	38	952
Bardo, Peter N., and T. Ford, Newport, Ky., assignors to Bourbon Copper and Brass Works, Cincinnati, Ohio. Hydrant.	365,896	July 5	194	49	40	38
Bardonnaut, Paul E., Toulouse, France. Preventing noise occasioned by vibrations of telegraph-wires	355,753	Jan. 11	635	165	38	134
Bardsley, James, and W. Phillips, Eagleville, Conn. Shuttle-guard for looms.	372,508	Nov. 1	326	90	41	532
Bardsley, Joseph, Brooklyn, N. Y. Door spring and check	366,711	July 19	1326	356	40	268
Bardsley, Joseph, Brooklyn, N. Y. Door-knob	373,632	Nov. 22	2057	548	41	881
Bardsley, William. (See Crofford, Warren K., assignor.)						
Barger, Jacob, Laceyville, and J. S. Hilton, Deersville, Ohio. Machine-brake	360,080	Mar. 29	2506	637	38	1401
Bario, John H. (See Wuterich, William F., assignor.)						
Barker, Alliston E., assignor to J. S. Taylor and L. T. Barker, Minneapolis, Minn. Word-counter for type-writers	362,596	May 10	745	206	39	619
Barker, Elbridge K., Milwaukee, Wis. Alarm-tag for druggists' bottles.	311,661	Oct. 18	1304	338	41	273
Barker, Erastus B., New York, N. Y. Adjustable plate-holder for photographic cameras.	356,567	Jan. 25	1821	476	38	370
Barker, Erastus B., assignor to E. & H. T. Anthony & Company, New York, N. Y. Photographic-paper-roll holder.	367,176	July 26	1946	525	40	391
Barker, Francis C., Dublin, Ireland. Chromatic-printing machine	373,426	Nov. 22	1742	{ 461 462 }	{ 41 41 }	821
Barker, Howard E., et al. (See Beauséjour, Urgel, assignor.)						
Barker, Irving, Braidwood, Ill. Self-lubricating car-wheel.	372,290	Nov. 1	9	3	41	472
Barker, Jedutheun P., Kalamazoo, Mich. Two-wheeled vehicle	366,063	July 5	429	117	40	81
Barker, Joseph H., New York, N. Y. Manufacture of rock-candy in bars or sticks.	363,195	May 17	1600	420	39	788
Barker, Lester T., et al. (See Barker, Alliston E., assignor.)						
Barker, William C., Clarksville, Mo. Cultivator	373,427	Nov. 22	1744	462	41	821
Barley, James H., et al. (See Neff, Joseph B., assignor.)						
Barley, James H., Sedalia, Mo. Harrow	360,407	Apr. 5	7	2	39	4
Barley, James H., Sedalia, Mo. Harrow	364,331	June 7	166	47	39	1120
Barley, Thomas K., et al. (See Neff, Joseph B., assignor.)						
Barlow, John H., New Haven, Conn. Cartridge implement.	364,747	June 14	762	202	39	1240
Barlow, John H., New Haven, Conn. Cartridge implement.	369,833	Sept. 13	714	192	40	1178
Barlow, John T., Jacksonville, Fla. Harness	368,747	Aug. 23	2034	539	40	864
Barlow, Joseph C., Quincy, Ill. Anchor for check-row planters	367,582	Aug. 2	330	94, 95	40	515
Barlow, Joseph C., Quincy, Ill. Anchor for check-row corn-planters	373,170	Nov. 15	1344	357	41	736
Barlow, Thomas L., Boston, assignor of one-half to F. McIntyre, Quincy, Mass. Window-awning	355,370	Jan. 4	104	28	38	22
Barlow, Warren S., Paterson, N. J. Door-check	365,224	June 21	1474	389	39	1380
Barlow, Warren S., Paterson, N. J. Door-spring	367,020	July 26	1728	465	40	351
Barnaby, Charles W., assignor of one-half to Buckeye Engine Company, Salem, Ohio. Steam-engine valve	364,207	June 7	14	4	39	1091
Barnaby, Charles W., assignor of one-half to Buckeye Engine Company, Salem, Ohio. Steam-engine governor	367,330	July 26	2178	586	40	436
Barnard, Ambrose E., Allegheny, Pa. Anvil for steam-hammers	357,546	Feb. 8	1163	305	38	647
Barnard, Charles S., Ansonia, Conn. Suspension device for lamps and other articles.	357,142	Feb. 1	596	153	38	530
Barnard, David C., and E. L. Wallace, Lockport, N. Y. Washing-machine	371,730	Oct. 18	1416	366	41	297
Barnard, Edward. (See De Nisi, Don A., assignor.)						
Barnard, Edward, Rome, N. Y. Harness-loop	368,271	Aug. 16	1364	359	40	726
Barnard, George A., Hartford, Conn. Heating apparatus	375,593	Dec. 27	2024	526	41	1463
Barnard, George D. (See Knapp, Edward, assignor.)						
Barnard, Heman A., Moline, Ill., assignor to Barnard & Leas Manufacturing Company. Roller-mill	364,984	June 14	1130	295	39	1306
Barnard, Heman A., and J. B. Cornwall, assignors to Barnard & Leas Manufacturing Company, Moline, Ill. Middlings-purifier	374,388	Dec. 6	306	81, 82	41	1105
Barnard & Leas Manufacturing Company. (See Barnard, Heman A., assignor.)						
Barnard & Leas Manufacturing Company. (See Barnard and Cornwall, assignors.)						
Barnard & Leas Manufacturing Company. (See Cornwall, John B., assignor.)						
Barnard, William T., et al. (See Selden, Charles, assignor.)						
Barnard, William T., Baltimore, Md., assignor to himself, F. Van Rysselberghe, Brussels, Belgium, and C. Selden, Baltimore, Md. Telegraphy	360,844	Apr. 12	633	168	39	126
Barnert, Nathan, et al. (See Fyfe, Alexander, assignor.)						
Barnes, Albert A. (See Meigs, Edmund H., assignor.)						
Barnes, Asa, Dover, N. C. Guano-distributing cart.	367,915	July 19	1592	426	40	318
Barnes, Charles A., Liverpool, N. Y. Pipe-cutter	365,564	June 28	2002	522	39	1493
Barnes, Charles E., assignor to W. Meehan, Boston, Mass. Machine for making cordage.	366,064	July 5	430	117	40	82
Barnes, Charles J. (See Sampson, John H., assignor.)						
Barnes, Charles M., and W. S. Hill, Boston, Mass. Picture-hanging device	365,426	June 28	1784	464	39	1449
Barnes, Charles T., Chicago, Ill. Fire-box lining for stoves, furnaces, &c	371,165	Oct. 11	617	158	41	130
Barnes Company, W. F. & John. (See Barnes, William F., assignor.)						
Barnes, Cortez E., Reed City, Mich. Device for aligning steam-engines	374,168	Dec. 6	12	3	41	1048
Barnes, David, Chicago, Ill. Fire-ladder apparatus	356,088	Jan. 18	1142	{ 303 304 }	{ 38 38 }	235
Barnes, David J., Fort Atkinson, Wis. Stanchion	360,265	Mar. 29	2797	712	38	1455
Barnes, George B., assignor to Lantern Globe Company, Bellaire, Ohio. Globe, chimney, &c	372,509	Nov. 1	327	90	41	533
Barnes, George L., North Haven, Conn. Sash-fastener	366,756	July 19	1389	372	40	279
Barnes, Henry D., New Haven, Conn. Screw-plate	369,158	Aug. 30	2608	692	40	985
Barnes, John C. (See Chestnut, John W., assignor.)						
Barnes, John E. (See Slater, George L., assignor.)						
Barnes, John L., Columbia City, Ind. Cider-press	357,448	Feb. 8	1010	268	38	618
Barnes, John W., Union City, Ohio. Window-shade fixture	363,791	May 31	2448	636	39	965
Barnes, Jonathan. (See Kenyon, Barnes, and Kenyon.)						
Barnes, Joshua, Brooklyn, N. Y. Confectionery	364,332	June 7	170	47	39	1121
Barnes, Monroe, Bloomington, Ill. Road-cart	373,633	Nov. 22	2058	548	41	881

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Barnes, Wesley W., New York, assignor to B. C. Kirk, T. T. Taber, Glen Cove, and W. A. Miller, Oyster Bay, N. Y. Plastic composition for insulating electric wires, &c.	371,406	Oct. 11	953		41	193
Barnes, William F., Rockford, Ill. Metal-turning lathe	357,567	Feb. 15	1207	318	38	666
Barnes, William F., assignor to W. F. & John Barnes Company, Rockford, Ill. Grind-stone-frame	367,331	July 26	2182	{ 586 } { 587 }	{ 40 }	436
Barnet, Henry C., Easton, Pa. Fence	369,627	Sept. 6	438	122	40	1118
Barnett, Charles C. (See Hall and Barnett.)						
Barnett, G. & H. (See Gleadall, Edwin, assignor.)						
Barnett, James, Louisville, Ky. Core-stand	359,660	Mar. 22	1823	463	38	1270
Barnett, William S., <i>et al.</i> (See Randall, Joseph S., assignor.)						
Barney, Everett H., Springfield, Mass. Fastening device for skates	358,716	Mar. 1	443	107	38	986
Barney, Everett H., Springfield, Mass. Skate-fastening	359,493	Mar. 15	1546	395	38	1203
Barney, Everett H., Springfield, Mass. Skate-fastening	361,113	Apr. 12	1030	260	39	197
Barney, Everett H., Springfield, Mass. Center-board fitting for boats	362,702	May 10	905	246	39	649
Barney, James E., Hyde Park, Mass. Compound ventilating wheel or fan	356,439	Jan. 25	1639	430	38	336
Barney, Martin V., assignor of one-half to D. M. Hynds, Chicago, Ill. Rubber shoe	369,766	Sept. 13	620	167	40	1160
Barney, R. Lester, Swanton, Vt. Buckle	374,033	Nov. 29	2624	704	41	1000
Barney, William C., assignor to J. C. Reiff, New York, N. Y. Telephone-transmitter	357,359	Feb. 8	883	232	38	594
Barney, William C., assignor to J. C. Reiff, New York, N. Y. Telephone-receiver	357,360	Feb. 8	885	233	38	594
Barnhard, Rubin, New York, N. Y. Neckscarf	357,754	Feb. 15	1488	390	38	716
Barnhart Brothers & Spindler. (See Rettig, George, assignor.)						
Barnhart, Daniel K., Gaines, Pa. Honey-section for bee-hives	356,817	Feb. 1	101	29	38	442
Barnhart, Frank, Warren, Pa. Composite burner for fuel-gas	365,959	July 5	290	77	40	55
Barnhart, Henry M. (See Huber, Barnhart, and King.)						
Barnsback, Ninian E., and G. A. Bush, Valley Falls, Kans. Feed-rack	375,329	Dec. 27	1666	437	41	1395
Barnsdale, Elijah K., Stratford, Ontario, Canada. Wire-fence advertiser	363,792	May 31	2449	636	39	966
Barnum, Virgil E. (See Howe and Fry, assignors.)						
Barnum, William W., Indianapolis, Ind. Mosquito-canopy	358,639	Mar. 1	325	78	38	964
Barnwell, Valentine T., Atlanta, Ga. Musical instrument	357,168	Feb. 8	635	165	38	547
Baron, Bamber. (See Kenyon and Baron.)						
Baron, Charles S. S., Bellaire, Ohio. Dinner-pail	364,567	June 7	515	139	39	1185
Barr, George, La Center, Wash. Ter. Rotary engine	367,177	July 26	1948	525	40	392
Barr, Samuel, McCausland, Iowa. Device for converting motion	358,529	Mar. 1	177	41	38	935
Barr, Samuel W., Mansfield, Ohio. Cash-carrier apparatus	357,449	Feb. 8	1012	{ 268 } { 269 }	{ 38 }	618
Barr, Samuel W., assignor of one-fourth to W. H. Albach, Mansfield, Ohio. Package-carrier	358,717	Mar. 1	444	108	38	986
Barr, William, Windsor, Ontario, Canada. Addressing-machine	362,143	May 3	123	37	39	497
Barr, William M., Brooklyn, N. Y. Piston	372,058	Oct. 25	1908	491	41	398
Barrath, Edward, assignor of one-half to V. E. Knecht, Cincinnati, Ohio. Coal-hod	371,023	Oct. 4	424	106	41	84
Barrell, William L. (See Adams and Barrell.)						
Barrett, Charles E., Brattleborough, Vt., assignor to R. F. Hawkins, trustee, Springfield, Mass. Speed-regulator	369,272	Aug. 30	2753	{ 734 } { 735 }	{ 40 }	1014
Barrett, Charles F. (See Barrett, Robert M. and C. F.)						
Barrett, Daniel P., Oakland, Cal. Windmill	357,652	Feb. 15	1333	351	38	687
Barrett, Edward L. (See Barrett, Edwin L. and E. L.)						
Barrett, Edwin L. and E. L., assignors to E. L. Barrett & Sons, Springfield, Ohio. Election-book	369,312	Sept. 6	8	2, 3	40	1036
Barrett, Frank W., assignor of one-half to F. L. Darrow & Co., Minneapolis, Minn. Thill-coupling	365,722	June 28	2231	581	39	1534
Barrett, John A., Brooklyn, N. Y. Telephone-annunciator	358,250	Feb. 22	2181	575	38	850
Barrett, John A., Brooklyn, N. Y. Annunciator and shunt-circuit therefor	360,266	Mar. 29	2798	712	38	1455
Barrett, John A., Brooklyn, N. Y. Electric battery	374,862	Dec. 13	990	259	41	1248
Barrett, John A., New York, N. Y. Galvanic battery	374,863	Dec. 13	991	259	41	1248
Barrett, John A., Brooklyn, N. Y., assignor to Western Electric Company, Chicago, Ill. Cable-hanger	358,140	Feb. 22	2034	535	38	822
Barrett, John A., assignor to Railway Telegraph Company, New York, N. Y. Railway-car telegraphy	359,990	Mar. 29	2345	591	38	1371
Barrett, Robert M. and C. F., Wooster, Ohio. Axle-box	374,234	Dec. 6	90	22	41	1064
Barrett, Sidney H., assignor to R. F. Hawkins, trustee, Springfield, Mass. Pipe-coupling	374,169	Dec. 6	15	3	41	1049
Barrett & Sons, E. L. (See Barrett, Edwin L. and E. L., assignors.)						
Barri, Martin, Cambridge, Mass. Pneumatic cash-carrier	367,741	Aug. 2	588	160	40	562
Barrie, Samuel S., Brooklyn, N. Y. Automatic reversing-gear	363,501	May 24	2030	529	39	880
Barrie, Samuel S., Brooklyn, N. Y. Centrifugal machine	373,577	Nov. 22	1979	525	41	865
Barron, Ernest R., assignor to J. Densmore, New York, N. Y. Type-writing machine	360,133	Mar. 29	2602	660	38	1418
Barron, Walter J., New York, N. Y., assignor to A. Densmore, Meadville, Pa. Type-writing machine	361,114	Apr. 12	1031	260	39	197
Barrow, Marion J., New Bloomfield, Mo. Motor	375,410	Dec. 27	1770	464	41	1415
Barrow, Thomas E., Mansfield, Ohio. Cuff-fastener	372,887	Nov. 8	915	247	41	648
Barrows, Frederick, Haverhill, Mass. Wall-protecting attachment for furniture	365,225	June 21	1476	389	39	1380
Barrows, Julius L., Port Huron, Mich. Ash-sifter	366,065	July 5	432	118	40	82
Barrows, William H., Brooklyn, N. Y. Sand-car	370,232	Sept. 20	1326	354	40	1299
Barrows, William H., Norwich, Conn., assignor to Brooklyn Railway Supply Company, Brooklyn, N. Y. Snow-sweeper	370,231	Sept. 20	1326	354	40	1299
Barry, John, New York, N. Y. Clinical thermometer	358,141	Feb. 22	2035	535	38	822
Barry, John C., Cortland, N. Y. Spring-vehicle	358,530	Mar. 1	178	42	38	935
Barry, Thomas D., Randolph, Mass. Boot or shoe	360,756	Apr. 5	507	131	39	95
Bartel, Louis. (See Vierheller, Louis, assignor.)						
Barth, John H., Terre Haute, Ind. Lamp for decorating and illuminating purposes	373,958	Nov. 29	2518	677	41	978
Barthelemy, A., <i>et al.</i> (See Malançon, Egisippe D., assignor.)						
Bartholomew, Albert L., <i>et al.</i> (See Neal, Andrew J., assignor.)						
Bartholomew, Alson B., Wallingford, Conn. Spool-holder	366,552	July 12	1086	293	40	216
Bartholomew, Cassius M., Newark, Ohio. Mechanical toy	370,305	Sept. 20	1421	382	40	1318
Bartholomew, William, assignor of two-thirds to R. W. Flack and J. M. Smith, Springfield, Ohio. Clothes-sprinkler	356,440	Jan. 25	1640	430	38	336
Bartl, Edmund, and F. Nichter, Scranton, Pa. Machine for recording the revolutions of ventilating-fans	374,820	Dec. 13	931	{ 242 } { 243 }	{ 41 }	1238
Bartlett, Amasa M., and J. L. Touhy, East Marshfield, Mass. Dinner-pail	365,457	June 28	1831	476	39	1458
Bartlett, Charles H., South Bend, Ind. Book holder and cover	362,925	May 17	1222	326	39	714
Bartlett, Fred B. (See Bartlett, Persons and F. B.)						
Bartlett, Frederick. (See Chapman and Eustice, assignors.)						
Bartlett, George C., Oil Creek, assignor of two-thirds to B. F. and W. H. Edwards, Titusville, Pa. Potato-digger	366,553	July 12	1087	294	40	216

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Bartlett, George H., and J. A. Johnson, Madison, Wis. Mowing-machine.....	372,354	Nov. 1	103	30	41	491
Bartlett, George W., Clifton Forge, Va. Lubricator.....	375,310	Dec. 20	1639	430	41	1381
Bartlett, Henry A., Philadelphia, Pa. Bottle for blacking, mucilage, &c.....	372,737	Nov. 8	670	183	41	606
Bartlett, Henry F., assignor to J. B. Carson, S. A. and S. C. Haseltine, E. B. Lloyd, and M. J. Bartlett, Springfield, Mo. Casing for burners.....	367,583	Aug. 2	334	95	40	515
Bartlett, Henry F., assignor to J. B. Corson, S. A. & S. C. Haseltine, E. B. Lloyd, and M. J. Bartlett, Springfield, Mo. Oven.....	373,428	Nov. 22	1745	462	41	822
Bartlett, James F., Cleveland, Ohio. Brush.....	362,351	May 3	386	107	39	549
Bartlett, James F., Cleveland, Ohio. Buckle.....	365,226	June 21	1477	389	39	1380
Bartlett, James F., assignor of one-half to J. D. Palmer, Cleveland, Ohio. Fastening device for shipping-cases.....	355,497	Jan. 4	262	70	38	53
Bartlett, Jesse H., Scott City, Kans. Apparatus for drawing water from wells.....	362,352	May 3	388	107	39	550
Bartlett, Joel A., <i>et al.</i> (See Teed, Eamor A., assignor.)						
Bartlett, John W., assignor to Moline Plow Company, Moline, Ill. Cotton-planter.....	365,041	June 21	1213	320	39	1332
Bartlett, M. J., <i>et al.</i> (See Bartlett, Henry F., assignor.)						
Bartlett, Marcus M., assignor to North Wayne Tool Company, Hallowell, Me. Hay-knife.....	359,124	Mar. 8	1018	263	38	1098
Bartlett, Persons and F. B., Laconia, N. H. Stocking and manufacturing the same.....	355,910	Jan. 11	876	229	38	178
Bartlett, William A., and S. Childs, Medway, Mass. Coal-sieve.....	369,223	Aug. 30	2689	714	40	1001
Bartlett, William D., Amesbury, Mass. Furnace.....	363,977	May 31	2728	707	39	1017
Bartley, George, Cleveland, Ohio. Mail-tag.....	359,049	Mar. 8	922	235	38	1079
Bartliff, Charles A., Memphis, Tenn. Joint for extension-handles.....	367,584	Aug. 2	335	95	40	515
Barton, Abner W. (See Brainard and Barton.)						
Barton Bell Company. (See Brainard and Barton, assignors.)						
Barton, Charles C., New York, N. Y., assignor of one-half to C. A. Kenney, London, England. Apparatus for maintaining a proportional flow of liquids.....	371,166	Oct. 11	618	158	41	130
Barton, Charles C., New York, N. Y., assignor of one-half to C. A. Kenney, London, England. Apparatus for maintaining a proportional flow of liquids.....	371,167	Oct. 11	620	158	41	130
Barton, Elijah C., East Hampton, Conn. Gong-bell.....	361,807	Apr. 26	2031	528	39	401
Barton, George A., Walton, N. Y. Wheel.....	369,579	Sept. 6	366	101	40	1104
Barton, John W., Blue Rapids, Kans. Combined domestic boiler and heating-drum.....	356,345	Jan. 18	1505	395	38	303
Barton, William H. H., Brockton, assignor to E. W. Upton, H. G. Rice, Peabody, and H. Torrey, Hancock, Mass. Furnace-damper.....	364,888	June 14	986	259	39	1280
Barton, William H. H., Brockton, assignor to E. W. Upton, H. G. Rice, Peabody, and H. Torrey, Hanover, Mass. Thermostat.....	371,121	Oct. 4	554	141	41	110
Bartow, Samuel B., Jr., Fitchburg, Mass. Tray attachment for bedsteads.....	355,911	Jan. 11	877	230	38	178
Barwick, Thomas J., near Thomasville, Ga. Shovel-plow.....	369,905	Sept. 13	833	221	40	1201
Basch, David, New York, N. Y. Ear-muff.....	358,718	Mar. 1	445	108	38	986
Basch, David, New York, N. Y. Bustle.....	367,585	Aug. 2	335	95	40	516
Basch, David, New York, N. Y. Cough remedy.....	372,952	Nov. 8	1007	.....	41	664
Basch, David, assignor to I. B. Kleinert, New York, N. Y. Ear-muff.....	360,985	Apr. 12	845	216	39	162
Basch, David, assignor to I. B. Kleinert, New York, N. Y. Ear-muff.....	375,594	Dec. 27	2027	526	41	1463
Basch, Henry L., Passaic, assignor to G. Feder, Paterson, N. J. Combined coat and vest.....	375,595	Dec. 27	2027	526	41	1463
Bascom, Austin T., assignor of one-half to J. W. Skillen, Sidney, Ohio. Newspaper-folding machine.....	368,805	Aug. 23	2112	{ 559 } { 560 }	{ 40 }	879
Basim, Henry T., Decaturville, Ohio. Feed mechanism for saw-mills.....	360,267	Mar. 29	2801	712	38	1455
Basim, Henry T., Decaturville, Ohio. Saw-mill dog.....	360,268	Mar. 29	2803	713	38	1456
Basinger, James M., assignor of one-half to H. D. Blakeslee, Buffalo, N. Y. Pad check-hook.....	367,587	Aug. 2	337	96	40	516
Basinger, James M., assignor of one-fourth to W. L. White, Buffalo, N. Y. Snap-hook.....	356,268	Jan. 18	1382	366	38	280
Basinger, James M., assignor of one-fourth to W. L. White, Buffalo, N. Y. Clamp.....	359,833	Mar. 22	2090	528	38	1318
Basinger, James M., assignor of one-fourth to W. L. White, Buffalo, N. Y. Buckle.....	361,980	Apr. 26	2293	597	39	448
Basinger, James M., assignor of one-half to W. L. White, Buffalo, N. Y. Whiffletree-hook.....	368,051	Aug. 9	1040	279	40	657
Basket, James M. (See Alston and Basket.)						
Basnett, Philip S., Basnett, W. Va. Gate.....	362,703	May 10	906	247	39	649
Bason, Thomas, Englewood, Ill. Door-latch.....	366,808	July 19	1453	{ 388 } { 389 }	{ 40 }	291
Bass, Charles A., Cicero, Ill. Automatic regulator for air-brakes.....	358,142	Feb. 22	2035	535	38	822
Bassett, Charles F., Hillsdale, Ind. End-gate.....	361,854	Apr. 26	2105	546	39	415
Bassett, Edgar S., Cadillac, Mich. Apparatus for heating dwelling-rooms, public buildings, &c.....	374,235	Dec. 6	91	23	41	1064
Bassett, Francis P., <i>et al.</i> (See Campbell, William, assignor.)						
Bassett, George, Chicago, Ill. Ornamental transparency.....	363,356	May 24	1812	476	39	838
Bassett, George B., Watertown, N. Y. Electric valve mechanism for water-mains.....	365,040	June 21	1210	{ 319 } { 320 }	{ 39 }	1331
Bassett, Norman C., assignor to Hydraulic Elevator Company, Chicago, Ill. Operating mechanism for hydraulic elevator valves.....	359,551	Mar. 15	1642	420	38	1221
Bassett, Norman C., assignor to W. E. Hale, Chicago, Ill. Electric igniter for gas-engines.....	359,552	Mar. 15	1643	420	38	1221
Bassett, R. M., <i>et al.</i> (See Wheeler, Mary E., assignor.)						
Bassett, Royal M., Birmingham, Conn., and T. F. Stevenson, Brooklyn, N. Y. Vulcanizing rubber belts, packing, &c.....	362,597	May 10	747	206	39	619
Bassett, T. S., <i>et al.</i> (See Wheeler, Mary E., assignor.)						
Bassford, Isaac. (See Fisher, Otis G., assignor.)						
Bastet, Louis, South Orange, N. J., assignor to W. Roberts, Waltham, Mass. Composition for waterproofing paper.....	361,041	Apr. 12	936	.....	39	178
Bastian, Albert D., Lyons, assignor of one-half to W. Fogley, Ovid, N. Y. Storm-apron for carriages.....	366,993	July 19	1693	455	40	336
Bastian, Gottlob. (See Bastian, Jacob, assignor.)						
Bastian, Jacob, assignor to G. Bastian, Dansville, N. Y. Sash-balance.....	375,252	Dec. 20	1561	409	41	1366
Bataille, Achille, New York, N. Y. Folding gate or door.....	358,956	Mar. 8	798	202	38	1056
Batavia Wheel Company. (See Sweet, John M., assignor.)						
Batchelder, Edwin F., Concord, N. H. Ice-velocipede.....	369,224	Aug. 30	2690	714	40	1001
Batchelder, Hazen J., Norwich, Vt., assignor to Victor Horse Shoe Company, Concord, N. H. Machine for rolling horseshoe-bars.....	358,426	Mar. 1	4	2	38	904
Batchelder, Hazen J., Waterbury, Vt., and T. S. Very, Boston, Mass., assignors to said Very. Horseshoe-machine.....	355,635	Jan. 4	459	123	38	91
Batchelder, James H., St. Louis, Mo. Feeding mechanism for egg-case machines.....	362,482	May 10	584	164	39	591
Batchelder, John M., Cambridge, Mass. Submarine signal.....	368,272	Aug. 16	1365	359	40	726
Batchelder, John P. (See Leonard, Franklin, assignor.)						
Batchelder, John S. (See Lawrence and Batchelder.)						
Batchelder, William W., New York, N. Y. Oil-heater for stoves.....	358,185	Feb. 22	2102	555	38	835
Batchelder, William W., Jr., Boston, Mass. Oil-vapor heater.....	373,429	Nov. 22	1745	{ 462 } { 463 }	{ 41 }	822
Batchelor, Charles. (See Walter, Henry E., assignor.)						
Batchelor, Charles. (See Walter and Batchelor.)						
Batchelor, Charles, New York, N. Y. Dynamo-electric machine.....	372,447	Nov. 1	242	67	41	516

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Batdorf, J. C. (See Lee, Samuel D., assignor.)						
Bate, James, Newark, N. J. Tricycle	364,466	June 7	370	101	39	1158
Bate, Wallace H., Malden, Mass. Water-supply-regulating apparatus for water-closets	361,203	Apr. 12	1183	299	39	224
Bate, William T., Conshohocken, Pa. Valve for gas apparatus	357,896	Feb. 15	1679	437	38	752
Bateman, Charles E., Chicago, Ill. Minnow-bucket	359,311	Mar. 15	1270	329	38	1152
Bateman, E. S. & F. (See Ellwood and Bateman, assignors.)						
Bateman, Frank. (See Ellwood and Bateman.)						
Bateman, Omer C., Taylor Ridge, Ill. Sulky-plow	355,676	Jan. 11	522	{ 137 138 }	{ 38 }	111
Bates, Albert J., Joliet, Ill. Wire-barbing machine	357,653	Feb. 15	1334	{ 351 352 }	{ 38 }	688
Bates, Albert J., Joliet, Ill. Pneumatic drilling-tool	364,081	May 31	2857	{ 741 742 }	{ 39 }	1043
Bates, Albert J., Joliet, Ill. Wire-barbing machine	367,085	July 26	1824	{ 491 492 }	{ 40 }	369
Bates, Albert J., assignor of one-half to W. O. Bates, Joliet, Ill. Wire-barbing machine	365,723	June 28	2232	{ 581 582 }	{ 39 }	1534
Bates, Andrew J., assignor of one-half to W. L. Yeargin, Carlinville, Ill. Trace-carrier	371,485	Oct. 11	1052	274	41	214
Bates, Caleb, Kingston, Mass. Sulky-cultivator	365,458	June 28	1832	476	39	1458
Bates, Chester S. (See Marshall and Bates.)						
Bates, Chester S., Saratoga Springs, N. Y. Car-axle	361,391	Apr. 19	1439	372	39	283
Bates, F. W. (See Mell, James A., assignor.)						
Bates, Francis G. (See Kellogg, Charles H., assignor.)						
Bates, Frank P., Syracuse, N. Y. Manufacture of shackle-clips	357,450	Feb. 8	1014	269	38	619
Bates, Joseph C., Chicago, Ill. Grain-drier	358,830	Mar. 8	608	151	38	1022
Bates, Madison F., Butler, Mich. Land-roller	368,926	Aug. 30	2294	609	40	923
Bates, Orren, assignor to himself and L. J. Rote, Wetmore, Kans. Kitchen-cabinet	362,704	May 10	907	247	39	649
Bates, Solomon W., et al. (See Eastman, Fred B., assignor.)						
Bates, Solomon W., Portland, assignor to E. C. Allen, Augusta, Me. Portfolio	357,808	Feb. 15	1560	406	38	730
Bates, Thomas H., Pasadena, Cal. Combined scale-measure and spirit-level	373,715	Nov. 22	2172	581	41	905
Bates, William O. (See Bates, Albert J., assignor.)						
Bathrick, Lewis E., Brooklyn, N. Y. Means for dissipating electricity for printing-machines	368,315	Aug. 16	1420	376	40	738
Batig, Joseph, Jr. (See Sherek and Batig.)						
Batt, John B., Williamsville, N. Y. Car-coupling	363,944	May 31	2667	692	39	1005
Batt, John B., Williamsville, assignor of one-half to L. Gebhard, Buffalo, N. Y. Freight-car door	372,105	Oct. 25	1979	508	41	411
Battard, Augustin, Santa Rosalie, Lower California, Mexico. Life-boat	359,762	Mar. 22	1985	502	38	1298
Battcher, John H., New York, assignor to W. J. Gambell, Brooklyn, N. Y. Spring bed	368,905	Aug. 23	2254	599	40	907
Battelle, Annie M. (See Battelle, John G., assignor.)						
Battelle, John G., assignor to A. M. Battelle, Covington, Ky. Joint for sheet metal	365,042	June 21	1214	320	39	1332
Batter, Frank, Slide, Cal. Concentrator	368,316	Aug. 16	1423	376	40	738
Batters, William F., Click, Tex. Wire-splicer	374,650	Dec. 13	689	181	41	1190
Battes, Adam, Mankota, Minn. Piano-action	374,389	Dec. 6	308	82	41	1105
Battin, Lambert B., Elizabeth, N. J. Hydraulic pipe	367,262	July 26	2082	562	40	417
Battis, John, Salem, Mass. Broiler	362,483	May 10	586	165	39	592
Battles, Rush S. (See Gilbert, George D., assignor.)						
Batts, James N., Coal Valley, W. Va. Scrubbing-machine	368,052	Aug. 9	1041	279	40	657
Bauder, Charles C., assignor of two-thirds to G. E. Bauder and A. B. Gorden, Burnside, Ill. Hame-tug	356,612	Jan. 25	1889	496	38	383
Bauder, George E., et al. (See Bauder, Charles C., assignor.)						
Bauder, Silas E. (See Twiggs, William R., assignor.)						
Bauer, Jacob, Peoria, Ill. Brace for carriage-tops	363,357	May 24	1814	476	39	838
Bauerfeind, Henry, Shawano, Wis. Washing-machine	369,495	Sept. 6	245	69	40	1080
Baugh, John B., Detroit, Mich. Die for welding links	363,978	May 31	2729	707	39	1017
Baugh, John E. (See Nichols, John H., assignor.)						
Baugh, William A., Melbourne, Fla. Subdividing and designating land	367,178	July 26	1950	{ 525 526 }	{ 40 }	392
Banghen, Benjamin R., Burlington, Iowa. Stem winding and setting watch	359,834	Mar. 22	2091	529	38	1318
Baum, Heinrich, Mannheim, Germany. Making pyrosulphates	373,264	Nov. 15	1486		41	762
Baum, Jacob, assignor to Victor Safe and Lock Company, Cincinnati, Ohio. Permutation-lock	364,467	June 7	371	102	39	1158
Baum, Theodor, Berlin, Germany. Machine for dressing the surfaces of metal articles	362,054	May 3	4	2, 3	39	474
Baumann, Julius P., New York, N. Y. Loop for shirts	373,918	Nov. 29	2463	661	41	968
Baumgardner, William G. (See Guthrie and Baumgardner.)						
Baumgardner, William G., Filer City, Mich. Saw-swaging machine	355,912	Jan. 11	878	230	38	178
Baumgarten, Ferdinand. (See Lilly, William H., assignor.)						
Baumgartner, John. (See Brose and Baumgartner.)						
Baumwart, Arthur C., Ossian, Iowa. Farm-gate	363,108	May 17	1481	391	39	763
Baur, Wilhelm, Brooklyn, N. Y. Filter-press	365,565	June 28	2003	522	39	1493
Bausch, Edward, Rochester, N. Y. Invertible microscope	373,634	Nov. 22	2059	549	41	881
Bausch, Christian H. (See West, David B., assignor.)						
Bausch, Christian H., Holyoke, Mass. Shuttle-support	358,324	Feb. 22	2281	602	38	870
Bausch, Christian H., Holyoke, Mass. Hydrant	358,719	Mar. 1	446	108	38	987
Bausman, David H., Lancaster, Pa. Wire-stretcher	358,831	Mar. 8	610	151	38	1022
Baute, Henry, Benton Harbor, Mich. Split pulley	360,645	Apr. 5	359	90	39	68
Baville, Edmond P., Brussels, Belgium. Grooved pulley	361,573	Apr. 19	1686	435	39	330
Baville, Edmond P., assignor to J. Ponty, Brussels, Belgium, and H. Howard, Coventry, R. I. Punching-machine	361,570	Apr. 19	1679	433	39	328
Baville, Edmond P., assignor to J. Ponty, Brussels, Belgium, and H. Howard, Coventry, R. I. Machine for turning bolts	361,571	Apr. 19	1681	434	39	329
Baville, Edmond P., assignor to J. Ponty, Brussels, Belgium, and H. Howard, Coventry, R. I. Screw-cutting machine	361,572	Apr. 19	1683	{ 434 435 }	{ 39 }	329
Baxter, Berry A., Mansfield, Ohio. Stove	361,666	Apr. 26	1835	475	39	367
Baxter, Berry A., Mansfield, Ohio. Stove-door	370,849	Oct. 4	146	39	41	29
Baxter, Channing, Brooklyn, N. Y. Means for individually controlling a number of devices by electricity	367,332	July 26	2183	587	40	436
Baxter, Daniel N., assignor of one-half to W. Short, Roodhouse, Ill. Dropper-actuating mechanism for planters	366,144	July 5	535	144	40	101
Baxter, Daniel N., assignor of one-half to D. F. King, Roodhouse, Ill. Boiler-cleaner	370,306	Sept. 20	1424	382	40	1318
Baxter Electric Manufacturing and Motor Company. (See Baxter, William, Jr., assignor.)						
Baxter, Emerson W. (See McFalls and Baxter.)						
Baxter, Emery W., Burr Oak, Mich. Two-wheeled vehicle	357,809	Feb. 15	1561	406	38	730
Baxter, William, Jr., Baltimore County, Md., assignor to Baxter Electric Manufacturing and Motor Company. Electric motor	361,115	Apr. 12	1032	261	39	197

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Baxter, William, Jr., Baltimore County, Md., assignor to Baxter Electric Manufacturing and Motor Company. Horizontal governor for electric motors	361,116	Apr. 12	1035	262	39	197
Baxter, William, Jr., Baltimore County, Md., assignor to Baxter Electric Manufacturing and Motor Company. Journal-bearing for electric motors	361,117	Apr. 12	1038	262	39	198
Bay, David N., and W. H. Fowler, Cambridge, Ohio. Nut-lock	363,196	May 17	1601	420	39	788
Bayaud & Stevens. (See Merritt, Henry W., assignor.)						
Bayer, Alexander S., Halifax, Nova Scotia, Canada. Floor-cramp	366,446	July 12	932	254	40	185
Bayer, Frank J., assignor to E. Lease, Du Bois, Pa. Tricycle	372,106	Oct. 25	1980	509	41	411
Bayer, Friedrich, assignor to Farbenfabriken, vormals Friedr. Bayer & Co., Elberfeld, Germany. Yellow-red dye-stuff from tetrazo-diphenyl	362,813	May 10	1061	.....	39	678
Bayer, Friedrich, assignor to Farbenfabriken, vormals Friedr. Bayer & Cie., Elberfeld, Germany. Manufacture of dye-stuffs and coloring-matter	363,502	May 24	2032	.....	39	880
Bayer, Martin, Chambersburg, N. J. Christmas-tree holder	355,856	Jan. 11	786	{ 206 } 207	{ 38 } 41	160 1445
Bayet, John, O'Fallon, Ill. Ratchet-and-lever mechanism	375,527	Dec. 27	1923	504	41	1445
Bayles, E. O. (See Donnelly, James L., assignor.)						
Bayley, Alfred, Newark, N. J., assignor to Central Stamping Company, of New York. Handle for tea-kettles, &c	367,263	July 26	2083	563	40	418
Bayley, Charles H., Boston, Mass. Sewing-machine	364,791	June 14	849	223	39	1253
Bayley, Edward H., 42 Newington Causeway, county of Surrey, England. Telescopic fire-escape	367,779	Aug. 9	650	{ 174 } 175	{ 40 } 41	582
Bayley, William. (See Whiteley and Bayley.)						
Bayley, William. (See Whiteley, Bayley, and Dyer.)						
Bayley, William. (See Whiteley, Bayley, and Dyer.) (Reissue.)						
Bayliss, Benjamin, Jr., Beltzhoover, Pa. Apparatus for manufacturing steel	361,256	Apr. 19	1255	{ 320 } 321	{ 39 } 41	250
Bayly, William. (See Weddington, William H., assignor.)						
Baynard, William H., Jr., assignor to E. Pels, Baltimore, Md. Pegging-jack	362,869	May 10	1132	305	39	690
Bayne, Henry F., and J. Dwyer, Ruston, La.; said Bayne assignor to said Dwyer. Fire-back and andiron for fire-places	365,360	June 28	1683	439	39	1431
Baynes, James B., Buffalo, N. Y. Vehicle-spring	368,371	Aug. 16	1493	398	40	753
Baynes, John, Unionport, N. Y. Tile	369,090	Aug. 30	2528	.....	40	968
Baynes, John, Westchester, N. Y. Manufacture of imitation mosaics	372,291	Nov. 1	10	3	41	472
Baynes, John, Westchester, N. Y. Manufacturing inlaid articles	372,355	Nov. 1	104	30	41	491
Baynes, John, Bronxdale, assignor of one-fourth to L. De Forest, Oyster Bay, N. Y. Photographic apparatus	365,897	July 5	195	50	40	38
Baynes, William. (See Clark, A. Ralph, assignor.)						
Baynes, William, assignor of one-half to A. R. Clark, Buffalo, N. Y. Lumber-binder	357,810	Feb. 15	1562	407	38	730
Baynes, William, and A. R. Clark, Buffalo, N. Y. Ash and garbage receptacle	360,646	Apr. 5	360	91	39	69
Bayrer, William J., assignor to Peck, Stow & Wilcox Company, Southington, Conn. Shears for metal	372,784	Nov. 8	752	203	41	619
Bayrer, William J., assignor to Peck, Stow & Wilcox Company, Southington, Conn. Shears for metal	372,785	Nov. 8	753	203	41	620
Beach, Burton W., Cornwall, N. Y. Wear-plate for vehicles	365,960	July 5	291	77	40	55
Beach, Clifton B. (See McIlvried, John, assignor.)						
Beach, Clifton B., Cleveland, Ohio. Rolling-mill	370,519	Sept. 27	1752	467	40	1385
Beach, Clifton B., Cleveland, Ohio. Rolling-mill	370,520	Sept. 27	1753	468	40	1386
Beach, Clifton B., Cleveland, Ohio. Rolling-mill plant	370,521	Sept. 27	1757	468	40	1386
Beach, Clifton B., Cleveland, Ohio. Continuous rolling-mill	370,522	Sept. 27	1759	469	40	1386
Beach, Clifton B., Cleveland, Ohio. Rolling-mill plant	370,523	Sept. 27	1760	469	40	1387
Beach, Clifton B., Cleveland, Ohio. Rolling-mill	370,524	Sept. 27	1760	469	40	1387
Beach, Edward P., assignor to H. and E. Unger, Newark, N. J. Catch for bracelets	358,720	Mar. 1	447	109	38	987
Beach, Elias W., Buffalo, N. Y. Automatic chemical fire-extinguisher	373,919	Nov. 29	2463	661	41	968
Beach, George A., Chicago, Ill. Carriage speaking-tube	356,740	Feb. 1	2	1	38	423
Beach, George A., assignor of one-half to J. F. Somes, Chicago, Ill. Carriage speaking-tube	363,979	May 31	2730	707	39	1017
Beach, Henry B., and S. W. Babbitt, Meriden, Conn. Tea or coffee pot	365,227	June 21	1478	389	39	1380
Beach, Henry L., Montrose, Pa. Scroll-sawing machine	356,186	Jan. 18	1276	337	38	259
Beach, Oliver B., Stony Creek, Conn. Cyclometer	360,269	Mar. 29	2804	713	38	1456
Beach, Oliver B., Stony Creek, Conn. Cyclometer	366,447	July 12	934	255	40	186
Beadle, Francis J. (See Box and Beadle.)						
Beal, Jesse C. (See Beal, John, W. J., and J. C.)						
Beal, John, assignor of one-half to C. W. Bush, Fenton, Mich. Detachable harness-rosette	375,691	Dec. 27	2172	565	41	1489
Beal, John, W. J., and J. C., Bruce, Iowa. Draft-equalizer	359,661	Mar. 22	1824	464	38	1270
Beal, Seth, Manchester, Iowa. Planter	359,005	Mar. 8	868	220	38	1069
Beal, William J. (See Beal, John, W. J., and J. C.)						
Beale, Alfred M. A., New York, N. Y. Telephone system	356,300	Jan. 18	1437	378	38	290
Beale, Alfred M. A., New York, N. Y. Telegraphy	360,986	Apr. 12	846	217	39	162
Beale, Alfred M. A., New York, N. Y. Telegraphy	360,987	Apr. 12	850	217	39	162
Beale, Alfred M. A., New York, N. Y. Multiple telegraph system	360,988	Apr. 12	855	218	39	163
Beale, Joseph G., Leechburg, Pa. Manufacture of planished steel sheets	364,568	June 7	517	140	39	1185
Beale, Stephen T., Jr. (See Splane, John, assignor.)						
Beale, Stephen T., Jr., Philadelphia, Pa. Artificial tooth	374,572	Dec. 13	585	153	41	1169
Beales, Emanuel D., Guyandotte, assignor to himself and R. T. Oney, Charlestown, W. Va. Door-spring	361,981	Apr. 26	2294	597	39	449
Beall, Frank, Decatur, Ill. Grinding-mill	364,628	June 14	595	160	39	1208
Beall, Sylvester W., Columbus, Ohio. Combined atomizer and syringe	369,767	Sept. 13	621	167	40	1160
Beals, Ebenezer, Norwich, N. Y. Automatic car-brake	366,448	July 12	937	255	40	186
Beals, Ebenezer, Norwich, N. Y. Ratchet-drill	371,407	Oct. 11	954	{ 246 } 247	{ 41 } 41	193
Beam, George W. (See Beam, Jacob B. and G. W.)						
Beam, Jacob B., Clouser, Pa. Cutter-bar for harvesting-machines	366,197	July 12	608	{ 165 } 166	{ 40 } 40	123
Beam, Jacob B. and G. W., Big Run, Pa. Door-sill	365,774	July 5	7	2	40	4
Beaman, Charles F., Brooklyn, N. Y. Hand-truck	373,795	Nov. 22	2286	612	41	925
Beaman, Timothy L., Knoxville, Tenn. Fare-box	357,755	Feb. 15	1489	{ 390 } 391	{ 38 } 38	716
Beaman, Timothy L., Knoxville, Tenn. Fare-box	357,756	Feb. 15	1493	391	38	717
Bean, Benjamin F., assignor to M. J. Bean, Pawling, Pa. Dumping-car	366,295	July 12	743	202	40	148
Bean, Edward D., Arlington, Mass. Policeman's club and making the same	365,228	June 21	1479	390	39	1381
Bean, Edward D., Arlington, assignor to J. P. Lovell Arms Company, Boston, Mass. Handcuffs	372,510	Nov. 1	328	90	41	533
Bean, Frank. (See Holman and Bean.)						
Bean, Frank, Medford, assignor of one-half to F. D. March, Cambridge, Mass. Metallic fastening	365,898	July 5	196	50	40	38

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Bean, Frank, Medford, assignor of one-half to F. D. March, Cambridge, Mass. Machine for uniting sheet material.	367,498	Aug. 2	213	60, 61	40	492
Bean, Fred S., Manchester, N. H. Device for lighting lamps	368,448	Aug. 16	1614	431	40	776
Bean, Lewis U., Philadelphia, Pa. Composition of matter for tempering, toughening, and improving the qualities of steel and other metals	373,430	Nov. 22	1748	.....	41	822
Bean, Martha J. (See Bean, Benjamin F., assignor.)						
Bean, Roscoe, Springfield, Ohio. Force-pump	359,419	Mar. 15	1439	367	38	1183
Bean, Roscoe, assignor to Mast, Foos & Company, Springfield, Ohio. Force-pump	372,888	Nov. 8	916	247	41	648
Bean, Samuel L., Washington, D. C. Boot-cleaner	367,129	July 26	1888	511	40	381
Bean, Theodore W., Norristown, Pa. Machine for rolling car-wheels	361,479	Apr. 19	1554	{ 402 403 }	{ 39 }	305
Bean, Theron W. (See Scarff, Mark T., assignor.)						
Beans, Elroy A., Randolph, Ohio. Clothes-pounder	363,358	May 24	1815	476	39	838
Bearce, Herbert W., New York, N. Y. Hand-rest	371,814	Oct. 18	1535	396	41	320
Beard, Charles. (See Higgins, Patrick J., assignor.)						
Beard, George M., Auburn, Ind. Windmill. (Reissue)	10,834	May 10	1212	324	39	706
Beard, George M., assignor of one-half to W. H. Rakestraw, Auburn, Ind. Windmill	362,870	May 10	1133	{ 305 306 }	{ 39 }	691
Bearden, Jonathan L., Springfield, Mo. Kitchen-cabinet	361,667	Apr. 26	1837	476	39	368
Beardsley, William, Beacon, Iowa. Bottle-stopper	365,961	July 5	291	77	40	56
Bearly, David. (See Hamilton and Bearly.)						
Beasley, Joseph, Handsworth, county of Stafford, England, assignor to J. H. Mitchell, Philadelphia, Pa. Purifying iron	374,651	Dec. 13	689	.....	41	1190
Beattie, James H., Conway, Kans. Device for lowering caskets	362,243	May 3	252	71	39	522
Beattie, John, Jr., Westport, Mass. Battery-zinc	359,835	Mar. 22	2094	.....	38	1319
Beattie, William, Cohoes, N. Y. Machine for sewing knit fabrics	370,446	Sept. 27	1639	437	40	1365
Beatty, Irvine C., et al. (See Carroll, Thomas H., assignor.)						
Beatty, Irvine C. (See Taylor, Thomas, assignor.)						
Beatty, James E., Nevada, Iowa. Reclining attachment for bedsteads	374,922	Dec. 20	1092	285	41	1277
Beatty, Laura A., Galesburg, Ill. Heating attachment for lamp-chimneys	362,705	May 10	908	247	39	650
Beatty, Raymond M., Hackensack, N. J. Elevated railway	367,887	Aug. 9	801	216	40	612
Beatty, Samuel, assignor to T. S. Vanderhoef, Norwalk, Conn. Machine for pressing straw hats	366,066	July 5	433	118	40	82
Beatty, Samuel, assignor to T. S. Vanderhoef, Norwalk, Conn. Pressing straw hats	366,067	July 5	434	118	40	82
Beaty, David B., Moore's Hill, Ind., assignor of one-half to O. M. Hubbard, Cincinnati, Ohio. Automatic gate	374,138	Nov. 29	2777	747	41	1029
Beaty, William, Finchford, Iowa. Device for feeding stock	373,877	Nov. 29	2405	646	41	956
Beauchemin, Jean B. (See Savaria and Beauchemin.)						
Beaudry, Alexander, Boston, Mass. Press for the punching, shearing, &c., of metals	362,566	May 10	697	195	39	611
Beaudry, Deunbord, Montreal, Quebec, Canada. Wash-bench	357,304	Feb. 8	822	{ 213 214 }	{ 38 }	582
Beaudry Edge Setting and Heel Burnishing Machine Company. (See Beaudry, Zotique, assignor.)						
Beaudry, Henri, Montreal, Quebec, Canada. Suspenders	359,836	Mar. 22	2094	529	38	1319
Beaudry, Zotique, Lynn, Mass., assignor to Beaudry Edge Setting and Heel Burnishing Company, Manchester, N. H. Tool for burnishing the heels of boots or shoes	367,355	Aug. 2	2	1	40	451
Beaulieu, John, assignor of one-half to J. Harpst, Arcata, Cal. Saw level and set gage	365,163	June 21	1400	369	39	1364
Beaumont, Harry A., Milwaukee, Wis. Fountain-brush	368,748	Aug. 23	2036	539	40	864
Beaupre, Manus C., Charlotteville, Ontario, Canada. Straw-cutting machine	373,431	Nov. 22	1748	463	41	822
Beauregard, Victor, St. Hyacinthe, Quebec, Canada. Sole-edge-trimming machine for boots or shoes	367,264	July 26	2084	563	40	418
Beauséjour, Urgel, assignor of one-half to S. Keeler and H. E. Barker, East Saginaw, Mich. Car-step	356,346	Jan. 18	1505	395	38	303
Bebb, George, assignor to G. and W. Merritt, Indianapolis, Ind. Carding-machine	356,089	Jan. 18	1145	304	38	236
Bebb, George, assignor to G. and W. Merritt, Indianapolis, Ind. Carding-machine	356,090	Jan. 18	1147	304	38	236
Bechmann, George F., et al. (See Bacon, Alfred, assignor.)						
Bechtold, Christian, Larue, Ohio. Fence-post base	370,850	Oct. 4	147	40	41	29
Beck, Frederick, New York, N. Y. Felt paper and manufacture thereof	359,531	Mar. 15	1608	.....	38	1215
Beck & Hopkins Manufacturing Company. (See Beck, Marshall, assignor.)						
Beck, James P., Moline, Ill. Poker	355,754	Jan. 11	635	165	38	134
Beck, Marshall, assignor to Beck & Hopkins Manufacturing Company, Chicago, Ill. Hay-loader	361,118	Apr. 12	1039	263	39	198
Beck, Robert M., Chambersburg, Pa. Steam-engine governor	359,006	Mar. 8	870	{ 220 221 }	{ 38 }	1069
Beck, Traugott, Newark, N. J., assignor to O. Fuhlrott, J. G. H. Lehmann, and F. J. Tinkham, New York, N. Y. Measuring-faucet	363,575	May 24	2136	553	39	900
Becker, Alphonzo, Waterford, Pa., assignor of one-half to P. E. Wilcox, Geneva, Ohio. Animal-trap	372,292	Nov. 1	11	3	41	472
Becker, August J., Mount Carmel, Pa. Hand rock-drill	371,297	Oct. 11	797	203	41	164
Becker, Charles G., Westfield, Mass. Whip-button and method of manufacture	356,092	Jan. 18	1150	305	38	237
Becker, Charles J., Knoxville, Pa. Wash-board appliance	371,408	Oct. 11	955	247	41	194
Becker, Chauncey L. (See Edwards and Becker.)						
Becker, Eduard, Solingen, Germany. Corkscrew	373,512	Nov. 22	1891	501	41	849
Becker, Elias, Pittsburg, Pa. Speaking-tube	356,091	Jan. 18	1149	304	38	236
Becker, Francis L., New York, N. Y. Combined chin and shoulder rest for violins	360,408	Apr. 5	10	3	39	4
Becker, Francis L., New York, N. Y. Door-check	374,337	Dec. 6	238	63	41	1091
Becker, Henry, assignor of one-half to J. G. Wickser, Buffalo, N. Y. Harness-saddle	363,882	May 31	2573	668	39	989
Becker, Lothar, Galveston, Tex. Machine for cutting off the soiled butts of grain-stalks	362,244	May 3	253	72	39	522
Becker, Philipp W. A., Anderson, Tex. Planter	370,036	Sept. 20	1051	278	40	1248
Becker, William, Navarre, Ohio. Fence	371,409	Oct. 11	956	247	41	194
Becker, Wolfgang, Chicago, Ill. Guide-pin for piano-keys	366,615	July 12	1187	318	40	234
Beckert, Charles, Allegheny, Pa. Cigar-bunching machine	364,700	June 14	691	{ 184 185 }	{ 39 }	1226
Beckert, Charles, Allegheny, Pa. Cigar-bunching machine	364,701	June 14	694	{ 185 186 }	{ 39 }	1227
Beckfeld, J. Charles. (See Schmid and Beckfeld.)						
Beckfeld, J. Charles. (See Schmid and Beckfeld.) (Reissue.)						
Beckford, Frank M., Laconia, N. H. Cord or rope	373,959	Nov. 29	2519	678	41	978
Beckhardt, Louis. (See Kohn and Beckhardt.)						
Beckler, Ashlin J., Rogers Park, Ill. Delivery mechanism for printing-machines	363,883	May 31	2574	669	39	989
Beckley, Hezekiah M., Rich Hill, Mo. Wire-stretcher	359,312	Mar. 15	1270	329	38	1152
Beckman, Charles J., Council Bluffs, Iowa. Bracket for curtain-rods	356,741	Feb. 1	3	1	38	423
Beckwith, Capitola P. (See Beckwith, Nelson, assignor.)						
Beckwith, George H., Charlestown, W. Va. Remedy for hog-cholera	361,741	Apr. 26	1933		39	384

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Beckwith, Ira W., assignor of one-half to O. M. Whitcomb, Humboldt, Nebr. Sulky-plow	361,257	Apr. 19	1256	321	39	250
Beckwith, James S., Belleville, Kans. Kitchen-cabinet	360,845	Apr. 12	635	{ 168 169 }	{ 39 }	126
Beckwith, Nelson, assignor, by mesne assignments, to C. P. Beckwith, Cambridge, Mass. Elevator	372,107	Oct. 25	1981	509	41	411
Beckwith, Philo D., Dowagiac, Mich. Flask-hinge	368,317	Aug. 16	1424	{ 376 377 }	{ 40 }	738
Beckwith, W. (See Moats, Harlan G., assignor.)						
Bedell, Byron C., Port Huron, Mich. Tension device for sewing-machines	359,420	Mar. 15	1440	368	38	1183
Bedford, Milton T., Van Wert, Ohio. Flood-gate	363,793	May 31	2450	636	39	966
Beebe, Charles F., Orion, Mich. Fence	361,480	Apr. 19	1555	403	39	305
Beebe, Charles S., Racine, Wis. Two-wheeled vehicle	365,566	June 28	2005	523	39	1493
Beebe, Charles V., Dunnsville, N. Y. Seat for agricultural machines	361,918	Apr. 26	2195	569	39	432
Beebe, George W. (See Spencer and Beebe.)						
Beebe, James H., St. Paul, Minn. Applying power	359,591	Mar. 22	1733	441	38	1253
Beecher, Edwin N., and L. D. Whiting, Southington, Conn. Machine for cutting off and pointing or threading blanks	356,818	Feb. 1	101	29	38	442
Beecher, Evelyn, New Haven, Conn. Rotary cutter	364,792	June 14	850	223	39	1254
Beecher, Frank. (See Wines, Edward, assignor.)						
Beecher, Frank, et al. (See Yarrington, Charles H., assignor.)						
Beecher, Thomas, assignor to C. S. Mersick, New Haven, Conn. Sash-fastener	375,528	Dec. 27	1924	504	41	1445
Beedle, Augustus D., Kansas City, Mo. Folding vehicle-awning	372,448	Nov. 1	243	68	41	516
Beehler, Charles W., assignor of one-half to C. Sueme, St. Louis, Mo. Box-fastener	361,574	Apr. 19	1687	436	39	330
Beekman, Edwin, Middletown, N. J. Asparagus-bunching machine	360,946	Apr. 12	790	205	39	152
Beeler, Charles H., Fremont, Ohio. Fodder-binder	356,976	Feb. 1	327	88	38	483
Beeman, George M., et al. (See McLeod, Angus, assignor.)						
Beers, Benjamin B., assignor of one-half to N. Couch, Branchville, Conn. Butter-worker	359,954	Mar. 22	2285	574	38	1353
Beers, Wheeler, Bridgeport, Conn. Lathe-chuck	361,668	Apr. 26	1838	476	39	368
Beerstecher, Charles A., Centreville, Mich. Corn-planter	365,229	June 21	1480	390	39	1381
Beeson, Volney W., Perry, Iowa. Submerged force-pump	372,953	Nov. 8	1007	271	41	664
Beeson, William, Dillon, Mont. Ter. Aerial navigation	361,855	Apr. 26	2106	{ 546 547 }	{ 39 }	415
Beffrey, Arseneaus, Watertown, N. Y. Overflow and stopper for basins	371,541	Oct. 18	1139	296	41	241
Begemann, Charles F. W., El Paso, Tex. Filter	357,897	Feb. 15	1680	437	38	752
Beggs, Eben J., New York, N. Y. Apparatus for manufacturing finings from fish-sounds and isinglass	372,591	Nov. 1	451	121	41	555
Beghtel, Eli, Huntington, Ind. Portable sawing-machine	374,573	Dec. 13	587	153	41	1169
Begole, Gordon W., Ypsilanti, Mich. Slat-and-wire-fence machine	367,588	Aug. 2	338	96	40	516
Behan, William, and P. Friensehner, Texarkana, Tex. Gin-saw-sharpening machine	365,567	June 28	2006	523	39	1493
Behlmer, John F., New York, N. Y. Carbonic-acid-gas generator	357,696	Feb. 15	1394	367	38	699
Behnke, Charles R., Bridgeport, Conn. Valve for radiators	363,884	May 31	2575	669	39	989
Behr, Herman. (See Lorenz, William A., assignor.)						
Behrens, Friedrich D., Enon, Ohio. Rein-holder	373,716	Nov. 22	2173	581	41	905
Behringer, Charles, Defiance, Ohio. Vehicle-wheel	358,531	Mar. 1	178	42	38	935
Behrns, Gustav, Lubeck, Germany. Dust-collector	357,060	Feb. 1	446	119	38	504
Beidler, Henry M., Washington, D. C. Medicine-package	364,623	June 7	580	155	39	1197
Beiger, Martin V., Mishawaka, Ind. Fabric boot	370,307	Sept. 20	1425	383	40	1319
Beiger, Martin V., Mishawaka, Ind. Fabric boot and manufacture of same	374,338	Dec. 6	240	64	41	1091
Beiger, Martin V., and A. Eberhart, Mishawaka, Ind. Seamless knitted boot or shoe	367,333	July 26	2186	588	40	437
Beilby, George T. (See Young and Beilby.)						
Beimling, Henry F., assignor of one-half to C. S. Weierman, Philadelphia, Pa. Centrifugal liquid-separator	357,547	Feb. 8	1164	305	38	647
Beindorf, Frederick, Litchfield, Ill. Traction-wheel	358,532	Mar. 1	179	42	38	935
Beisel, Benjamin. (See Gordon, Strobel, and Beisel.)						
Bekofsky, Vladimir S., Jenchuan, Corea. Balanced cooking-stove	355,498	Jan. 4	264	70	38	53
Bekofsky, Vladimir S., New York, N. Y. Stove	358,640	Mar. 1	326	78, 79	38	964
Bekofsky, Vladimir S., New York, N. Y. Car-coupling	358,641	Mar. 1	328	79	38	964
Bekofsky, Vladimir S., New York, N. Y. Music-recorder	366,068	July 5	435	118	40	83
Belcher, Fred. C., Canton, Mass. Machine for making paper bags	356,441	Jan. 25	1641	{ 430 431 }	{ 38 }	336
Belches, Richard, Haymarket, Va. Fire-escape	365,230	June 21	1481	390	39	1381
Belden, Ann M., Bloomington, Ill. Magazine-stove	372,109	Oct. 25	1986	510	41	412
Belden, Eugene H., Horton, Mich. Lubricator	355,499	Jan. 4	266	70	38	54
Belden, Eugene H., Horton, Mich. Thill-coupling	371,410	Oct. 11	957	247	41	194
Belden, Leslie, New York, N. Y. Hydraulic jack	371,919	Oct. 25	1698	440	41	361
Belding, Thomas C., assignor of one-half to T. C. Snyder, Canton, Ohio. Track for hay-elevators	362,567	May 10	700	195	39	612
Beldsmeier, Henry W., St. Louis, Mo. Belt-pulley	355,294	Jan. 4	4	1	38	3
Belgum, Sever N., Mount Vernon, Wis. Vehicle running-gear	374,923	Dec. 20	1095	286	41	1277
Belisle, Robert S., assignor of three-fourths to E. Z. Collings, W. H. McGrath, and L. H. Taylor, Jr., Philadelphia, Pa. Grip for cable railways	361,608	Apr. 19	1735	448	39	339
Belisle, Robert S., assignor of three-fourths to E. Z. Collings, W. H. McGrath, and L. H. Taylor, Jr., Philadelphia, Pa. Transmitting power in cable railways	363,576	May 24	2137	554	39	900
Belknap, Lydia E., et al. (See Simmonds, William, assignor.)						
Belknap, William H., et al. (See Simmonds, William, assignor.)						
Belknap, Willis H., New York, N. Y. Basket	356,301	Jan. 18	1438	378	38	290
Belknap, Willis H., New York, N. Y. Retention device for umbrellas, &c	369,387	Sept. 6	109	33	40	1053
Belknap, Willis H., New York, N. Y. Parasol	375,470	Dec. 27	1853	484	41	1431
Bell, B. Frank T., Washington, D. C. Center-marking device	364,082	May 31	2860	742	39	1044
Bell, Charles, Old Tacoma, Wash. Ter. Curtain-fixture	362,706	May 10	909	248	39	650
Bell, Charles E., Greenfield, Ohio. Regenerative gas-lamp	367,949	Aug. 9	894	242	40	629
Bell, Charles S., Columbus, Ohio. Telephone	361,481	Apr. 19	1556	403	39	306
Bell, Daniel, St. Paul, Minn. Railway construction	372,108	Oct. 25	1984	509	41	412
Bell, Edwin, Jr., et al. (See Kennedy, Frank M., assignor.)						
Bell, Frank H., and E. J. Marsh, Du Bois, Pa. Hand-piece for dental engines	374,286	Dec. 6	157	41	41	1077
Bell, George W., and J. W. Trickett, St. Joseph, Mo. Pilot for railway-cars	365,664	June 28	2145	560	39	1519
Bell, Harold J., Lincoln, Nebr. Gas-meter	373,003	Nov. 8	1087	{ 290 291 }	{ 41 }	679
Bell, Harry W. (See Robbins and Bell.)						
Bell, J. Snowden. (See Wootten and Bell.)						
Bell, James W. (See Voden, Sidney J., assignor.)						
Bell, John T., and S. Ritty, assignors to Ohio Rake Company, Dayton, Ohio. Harrow	370,037	Sept. 20	1052	279	40	1248
Bell, Lucius, Brooklyn, N. Y. Filter	356,819	Feb. 1	104	29	38	443
Bell, Samuel, Alliston, Ontario, Canada. Device for operating train-switches	358,325	Feb. 22	2283	602	38	870

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Bell, Thomas J., Harrisburg, Pa. Swing	363,503	May 24	2032	529	39	880
Bell, William G., Newton, Mass. Meat cutting and mixing machine	359,837	Mar. 22	2095	{ 529 530 }	{ 38 }	1319
Bellaire, Thomas, and J. Bousha, Belle River, Ontario, Canada. Grain-tally	361,392	Apr. 19	1440	372	39	283
Belleville, Julien F., Paris, France. Feed-water apparatus	373,216	Nov. 15	1427	377	41	751
Bellis, David C., assignor of one-half to S. H. Weiheimayer, Philadelphia, Pa. Knitting-machine	372,195	Oct. 25	2115	543	41	436
Bellis, William. (See Bellis, William K., assignor.)						
Bellis, William K., assignor of one-half to W. Bellis, Indianapolis, Ind. Coin-pocket	359,955	Mar. 22	2286	574	38	1353
Belton, Taylor. (See Johnson and Belton.)						
Bemis, Sumner A., Springfield, Mass. Car-truck	372,293	Nov. 1	12	4	41	473
Bemis, Sumner A., Springfield, Mass. Car-truck	373,578	Nov. 22	1980	526	41	865
Bemis, Sumner A., Springfield, Mass. Car-truck	373,635	Nov. 22	2060	{ 549 550 }	{ 41 }	881
Bemish, Richard, Rochester, N. Y. Fire-escape	369,681	Sept. 13	513	142	40	1142
Benckendorff, Franz U. (See Jüngst, Carl, assignor.)						
Bender, Edouard. (See Francken and Bender.)						
Bender, Frederick W. (See Scheidemann and Bender.)						
Bender, Fritz, assignor to A. Leonhardt & Co., Mühlheim-on-the-Main, Germany. Production of disulpho-acid of diamidostilbene	360,553	Apr. 5	238	.....	39	46
Bender, Fritz, Mühlheim, and G. Schultz, Berlin, assignors to A. Leonhardt & Co., Mühlheim, and Actiengesellschaft für Anilin Fabrikation, Berlin, Germany. Obtaining diazo colors by means of diamidostilbene and diamido-fluorene	360,792	Apr. 5	554	.....	39	104
Benedict & Burnham Manufacturing Company. (See Blackham, Eli J., assignor.)						
Benedict, Daniel M. (See Griffing and Ashborn, assignors.)						
Benedict, Emory J., Dell Rapids, Dak. Ter. Truck	366,554	July 12	1088	294	40	216
Benedict, George W., College Corner, Ind. Tellurian	362,871	May 10	1137	306	39	691
Benedict, Henry W. (See Fry and Benedict.)						
Benedict, Jewett, Dundee, N. Y. Pan or tray for berry-harvesters	370,368	Sept. 27	1523	409	40	1345
Benedict, Jewett, Dundee, N. Y. Gathering-tray	375,596	Dec. 27	2028	527	41	1464
Benedict, Milton E., Perry, N. Y. Elevator for harvesters	372,889	Nov. 8	918	248	41	649
Benedict, Theodore H. (See Fry and Benedict, assignors.)						
Benedict, William F., New York, N. Y. Metallic tree-box	374,170	Dec. 6	16	4	41	1049
Benfield, Thomas, Newark, N. J. Bicycle-step	374,287	Dec. 6	158	42	41	1077
Benham, Louis M., et al. (See McCall, James R., assignor.)						
Benham, Luther, Marianna, Ark. Account-register or coin-counter	357,361	Feb. 8	886	233	38	595
Benjamin, Alfred, assignor of one-half to E. Benjamin, Newark, N. J. Dress-supporting device	358,372	Feb. 22	2345	623	38	882
Benjamin, Alfred, assignor of one-half to E. Benjamin, Newark, N. J. Spring or reed for supporting garments	361,982	Apr. 26	2296	597	39	449
Benjamin, Edward. (See Benjamin, Alfred, assignor.)						
Benjamin, Edwin P., Minetto, assignor of one-half to Minetto Shade Cloth Company, Oswego, N. Y. Ornamenting window-shades	366,449	July 12	938	256	40	186
Benjamin, George H., New York, N. Y. Pipe-coupling	368,906	Aug. 23	2255	600	40	907
Benjamin, George H., New York, N. Y. Heating apparatus	369,425	Sept. 6	160	46, 47	40	1062
Benjamin, George H., New York, N. Y. Expansion-joint	373,432	Nov. 22	1749	463	41	822
Benjamin, George W. (See Ware and Benjamin.)						
Benjamin, Joseph E., near Reynolds, Nebr. Spring bed-bottom	373,513	Nov. 22	1892	501	41	850
Bennet, Charles, Manchester, assignor of one-half to C. Arkenberg, Milan, Ind. Churn ..	369,426	Sept. 6	161	47	40	1062
Bennett, Walter A., et al. (See Thompson, John L., assignor.)						
Bennett, Bazel M., Caskey, Ky. Car-coupling	370,115	Sept. 20	1165	308	40	1267
Bennett, Bellop S. (See Weber, Theodore A., assignor.)						
Bennett, Charles A. (See Degnan and Bennett.)						
Bennett, Charles F., Chicago, Ill. Elastic stocking	361,042	Apr. 12	937	236	39	178
Bennett, Cyrus D., assignor of one-half to F. North, Vassar, Mich. Machine for cutting paving-blocks	358,373	Feb. 22	2345	623	38	882
Bennett, Delbert F. (See Dewing and Bennett.)						
Bennett, Dennis H., Allendale, Mich. Mechanical movement	371,024	Oct. 4	425	106	41	85
Bennett, Edward A., Weston, W. Va. Arm-rest	364,083	May 31	2861	742	39	1044
Bennett, Edward O. (See Christy and Bennett.)						
Bennett, Florence L. (See Bennett, Frederick, assignor.)						
Bennett, Frederick, London, assignor to F. L. Bennett, Glenwood, England. Appliance for holding articles in position for carving meat, &c	361,742	Apr. 26	1934	501	39	384
Bennett, George M., Burlington, Iowa. Folding ironing-board and stand	372,356	Nov. 1	106	31	41	491
Bennett, George M., and J. Johnson, Burlington, Iowa. Fire-escape ladder	366,916	July 19	1593	426	40	318
Bennett, George S., Denver, Colo. Electric belt	373,044	Nov. 15	1157	310	41	701
Bennett, George W., and L. Gompper, New York, N. Y. Sirup-pump	366,368	July 12	845	227	40	167
Bennett, Henry M., Bournemouth, county of Hants, England. Electric torpedo-boat	359,313	Mar. 15	1271	{ 329 330 }	{ 38 }	1152
Bennett, James T., et al. (See Kasey, Willem M., assignor.)						
Bennett, John B., and F. W. Samuels, Indianapolis, Ind. Target-trap	360,647	Apr. 5	361	91	39	69
Bennett, Julian J., Jackson, Mich. Fastening for knob-spindles	365,775	July 5	8	3	40	4
Bennett, Lewis, Litchfield, N. Y. Mop-wringer	356,913	Feb. 1	237	65	38	465
Bennett, Mark, et al. (See Davis, Daniel, assignor.)						
Bennett, O. W., et al. (See Gray and Chastain, assignors.)						
Bennett, Orson W., assignor to Standard Gas Machine and Portable Gas Lamp Company, Washington, D. C. Carbureting apparatus	362,197	May 3	188	56	39	510
Bennett, Phineas A., assignor of one-half to T. Bennett, Chicago, Ill. Lubricator	369,388	Sept. 6	110	33	40	1054
Bennett, Richard S. (See Nolen, George W., assignor.)						
Bennett, Thomas. (See Bennett, Phineas A., assignor.)						
Bennett, Truman P. M. (See Phillips, Isaac B., assignor.)						
Bennett, W. H. (See Winkler, Alois, assignor.)						
Bennett, Walter E. (See Merwin and Bennett.)						
Bennett, Walter E., assignor to Morley Button Sewing Machine Company, Boston, Mass. Attaching buttons	367,334	July 26	2188	588	40	437
Bennett, Walter E., assignor to Morley Button Sewing Machine Company, Boston, Mass. Button-feeding device for button-sewing machines	373,330	Nov. 15	1587	420	41	781
Bennett, Walter E., assignor of one-half to E. P. Merwin, Boston, Mass. Securing buttons to materials	368,124	Aug. 9	1131	301	40	674
Bennett, Walter E., and E. P. Merwin, assignors to Morley Sewing Machine Company, Boston, Mass. Machine for sewing buttons to fabrics	359,956	Mar. 22	2287	{ 576 577 }	{ 38 }	1354
Bennett, William A., et al. (See Hayes, Miles T., assignor.)						
Bennetts, Thomas, Brooklyn, N. Y. Oil-press cloth	372,110	Oct. 25	1987	510	41	412
Benninghaus, Chauncey M., Baltimore, Md. Reversible label for packing-cases	362,926	May 17	1224	326	39	714

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Benninghoff, George E. (See McDermott, John, assignor.)						
Bennitt, Joel, Denance, Ohio. Sad-iron	360,506	Apr. 5	160	40	39	31
Benoit, Frederick, Chicago, Ill. Sweat-pad fastening for horse-collars	369,496	Sept. 6	246	69	40	1081
Benoit, Fredrick, Chicago, Ill. Pad-fastener	372,294	Nov. 1	13	4	41	473
Benso, Charles, and J. Merkel, Minneapolis, Minn. Bowling-alley	367,130	July 26	1889	511	40	381
Benson, Christopher, assignor to J. W. Renwick, New York, N. Y. Spring-vehicle	370,721	Sept. 27	2063	547	40	1444
Benson, Ernest S. (See Kirby, James A., assignor.)						
Benson, Joseph. (See Tisdale, Charles D., assignor.)						
Benson, Lyman L., and W. T. Stilwell, Kalamazoo, Mich. Sewer-ventilating furnace	355,295	Jan. 4	5	2	38	3
Benson, Oliver, East Hinsdale, N. Y. Sun-dial	358,957	Mar. 8	799	202	38	1057
Benson, Samuel, Allegheny City, Pa. Spokeshave	357,898	Feb. 15	1681	437	38	752
Benson, Samuel J., Washington, D. C. Pipe-wrench	361,258	Apr. 19	1257	321	39	250
Bent, George W., Hyde Park, Mass. Folding bedstead	373,121	Nov. 15	1267	336	41	723
Bent, William H., et al. (See Nordyke, Charles E., assignor.)						
Bentayoux, Louis A. F., Paris, France. Musical chart	362,333	May 3	364	{ 100 101 }	{ 39 }	544
Bentley, Edward M., Brooklyn, N. Y. Electric railway	359,050	Mar. 8	923	{ 235 236 }	{ 38 }	1079
Bentley, Edward M., New York, N. Y. Electric railway	374,236	Dec. 6	92	23	41	1064
Bentley, John. (See Bentley, Matthew and J.)						
Bentley, Marshall G., assignor of one-half to J. E. Swarts, Freeport, Ill. Vehicle-spring	364,569	June 7	518	140	39	1185
Bentley, Matthew and J., Dudswell, Quebec, Canada. Quarrying plug or wedge	374,574	Dec. 13	590	154	41	1170
Benton, Charles H., Cleveland, Ohio. Steam-engine	370,919	Oct. 4	273	67	41	54
Benton, Francis E., Boston, Mass. Whip-socket	374,771	Dec. 13	860	226	41	1224
Benton, Francis E., Boston, Mass., assignor to M. Benton, West Windham, N. H. Whip-socket	367,179	July 26	1951	526	40	393
Benton, Mehala. (See Benton, Francis E., assignor.)						
Benton, Nathaniel H., and H. L. Godding, Madison, Wis. Sulky-harrow	365,962	July 5	292	78	40	56
Benton, Nathaniel H., and H. L. Godding, Madison, Wis. Sulky-harrow	372,357	Nov. 1	106	31	41	491
Benton, Russell O., Chicago, Ill. Furnace	370,597	Sept. 27	1871	497	40	1407
Benton, Walter L., St. Louis, Mo. Freight-car-door fastener	355,963	Jan. 11	960	251	38	194
Benway, Eli W., assignor of one-half to H. D. Grant, Independence, Kans. Riding harrow and roller	360,554	Apr. 5	239	59, 60	39	46
Benway, Peter D., Jr., Southbridge, Mass. Necktie-fastener	358,721	Mar. 1	448	109	38	987
Benzino, John J. (See Hazeltine, Benzino, and Weld.)						
Berbecker & Co., Julius. (See Morris, Thomas, assignor.)						
Berbecker, Julius, New York, N. Y. Lambrequin-pin	360,555	Apr. 5	240	60	39	47
Berchtold, Rudolf, assignor to W. P. Townsend & Co., New Brighton, Pa. Cutting-die for wire-nail machines	368,125	Aug. 9	1132	301	40	674
Berdan, Addison, Saline, Mich. Washing-machine	369,906	Sept. 13	834	221	40	1201
Berg, Fredrich. (See Miller and Berg.)						
Berg, Hart O., Brick Church, N. J., and A. Decortis, Charatte, Liege, Belgium. Concealed-hammer gun	363,577	May 24	2139	{ 554 555 }	{ 39 }	901
Berg, John A., Ashburton, New Zealand. Horse-detacher	359,763	Mar. 22	1986	503	38	1299
Berge, Henry, Baltimore, Md. Stone clamp and dowel	365,427	June 28	1785	{ 464 465 }	{ 39 }	1449
Bergen, Adolf. (See Schaffstädt and Bergen.)						
Bergen, George B., Milwaukee, Wis. Elevator	360,270	Mar. 29	2807	{ 713 714 }	{ 38 }	1457
Bergener, Charles, Rochester, N. Y. Tubular lantern	356,442	Jan. 25	1644	431	38	337
Bergenheim, Gottfrid, San Francisco, Cal. Wash boiler	358,589	Mar. 1	265	61	38	952
Berger, Benjamin F., and I. Sousley, South Bend, Ind. Wheel-cultivator	369,497	Sept. 6	247	70	40	1081
Berger, Ludwig, New York, N. Y., and J. Müller, Jersey City, N. J. Clamp	368,273	Aug. 16	1366	360	40	726
Berger, William H., Philadelphia, Pa. Damper for stove-pipes	366,809	July 19	1454	389	40	291
Berger, William H., Philadelphia, Pa. Handle	368,053	Aug. 9	1042	279	40	657
Bergeron, Jules, Berwick, La. Cultivator-plow	372,396	Nov. 1	167	47	41	501
Bergeron, Louis N. (See Hospes and Bergeron.)						
Bergh, Bror F., assignor, by mesne assignments, to Standard Hand Rock Drill Company, New York, N. Y. Rock-drilling machine	364,702	June 14	698	186	39	1228
Bergh, Douglas H. (See Mullins, Daniel P., assignor.)						
Berghausen, August, Elberfeld, Germany. Fire-damp annunciator	370,851	Oct. 4	148	40	41	30
Bergman, Henry J. (See Dougherty, Tiberias, assignor.)						
Bergman, Isaac, Baltimore, Md. Riding-saddle	362,707	May 10	910	248	39	650
Bergman, Isaac, Baltimore, Md. Harness-strap	362,708	May 10	911	248	39	650
Bergman, Martin L., and M. L. Miller, Buena Vista, Oreg. Spring-shackle	357,169	Feb. 8	636	165	38	547
Bergmann, Carl, Guben, Prussia, Germany. Measuring apparatus for hats	372,295	Nov. 1	15	4	41	473
Bergmann, Sigmund. (See Greenfield, Edwin T., assignor.)						
Bergmann, Sigmund, New York, N. Y. Combined gas and electric-light fixture	375,117	Dec. 20	1384	360	41	1330
Berkey, Julius, Grand Rapids, Mich. Inhaler	368,991	Aug. 30	2383	633	40	940
Berkey, Julius, assignor to Grand Rapids Felt Boot Company, Grand Rapids, Mich. Boot-jack	375,330	Dec. 27	1667	437	41	1395
Berkey, Julius, assignor to Grand Rapids Felt Boot Company, Grand Rapids, Mich. Felt boot	375,331	Dec. 27	1667	438	41	1395
Berkley, Joseph M., and H. F. Shannon, Clarksburg, Ind. Grain-weighing apparatus	367,180	July 26	1951	526	40	393
Berlin, Charles, assignor to American Waltham Watch Company, Waltham, Mass. Metal ornamentation	358,767	Mar. 1	504	124	38	997
Berliner, Emile, Washington, D. C. Radiating-mantel	372,449	Nov. 1	244	68	41	517
Berliner, Emile, Washington, D. C. Radiating-mantel	372,450	Nov. 1	246	68, 69	41	517
Berliner, Emile, Washington, D. C. Gramophone	372,786	Nov. 8	754	204	41	620
Bernard, Moress, New York, N. Y. Combined hood, boa, and collar	370,174	Sept. 20	1254	333	40	1286
Bernard, Philippe, assignor to W. C. De Pauw, New Albany, Ind. Machinery for polish-ing glass, &c	361,482	Apr. 19	1556	{ 403 404 }	{ 39 }	306
Bernardin, Alfred L., Evansville, Ind. Bottle-cap	373,796	Nov. 22	2287	612	41	925
Bernardin, Alfred L., Evansville, Ind. Machine for clinching bottle-caps	374,517	Dec. 6	493	129	41	1141
Bernardin Bottle Cap Company. (See Northall, William H., assignor.)						
Berner, Paul T. B., Berlin, Germany. Piano tuning-pin	360,409	Apr. 5	10	3	39	4
Bernhardt, Siegmund, New York, N. Y. Spring-clasp for gloves	363,578	May 24	2141	555	39	901
Bernheim, Charles H., Conover, assignor to B. Shemwell, Lexington, N. C. Quilting-frame for sewing-machines	360,846	Apr. 12	638	169	39	126
Bernheim, Joseph. (See Weil, Ferdinand, assignor.)						
Berninghaus, Eugene, Cincinnati, Ohio. Barber's chair	358,326	Feb. 22	2284	603	38	870
Bernsee, Alwine F. (See Wittmann, Rudolf C., assignor.)						
Bernstein, Adolph, New York, N. Y. Suspenders	372,196	Oct. 25	2117	544	41	437

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Bernstein, Alexander, London, England. Manufacture of incandescent-electric-lamp filaments.....	369,091	Aug. 30	2529	671	40	968
Bernstein, Richard, Lind, near Cologne, assignor to Deutsche Sprengstoff Actiengesellschaft, Hamburg, Germany. Granular nitro-cellulose.....	363,197	May 17	1602	.....	39	788
Bernstein, William F., Philadelphia, Pa. Bedstead.....	368,701	Aug. 23	1970	522	40	852
Bernstien, Louis, <i>et al.</i> (See Auredenn, John, assignor.)						
Berrenberg, Adolph, Boston, Mass. Registering apparatus.....	369,092	Aug. 30	2530	671	40	968
Berrenberg, Adolph, assignor to L. Post, Boston, Mass. Piston-packing.....	369,093	Aug. 30	2532	671	40	968
Berrenberg, William, Boston, Mass. Rotary valve.....	355,677	Jan. 11	524	138	38	112
Berrenberg, William, Boston, Mass. Portable boiler.....	360,847	Apr. 12	641	{ 169 170 }	{ 39 40 }	127
Berrenberg, William, Boston, Mass. Rotary engine.....	371,662	Oct. 18	1305	{ 338 339 }	{ 41 42 }	273
Berrien, Francis B., Peoria, Ill. Screen.....	368,506	Aug. 16	1697	452	40	791
Berrien, Leonard B. (See Avery and Berrien.)						
Berry, A. Hun, Boston, Mass. Fan-blower.....	370,920	Oct. 4	275	67, 68	41	54
Berry, G. W. (See Palmer, Dennis W., assignor.)						
Berry, George A., Colorado Springs, Colo. Trunk-strap.....	370,921	Oct. 4	277	68	41	55
Berry, George S., Visalia, Cal. Combined steam traction header and thrasher.....	374,339	Dec. 6	241	64, 65	41	1092
Berry, John, assignor to National Needle Company, Springfield, Mass. Mechanical movement.....	358,768	Mar. 1	505	124	38	997
Berry, Marcellus F., Brooklyn, N. Y. Seal-lock.....	365,231	June 21	1483	390	39	1381
Berry, Marcellus F., Brooklyn, N. Y. Paper file or clamp.....	370,116	Sept. 20	1166	309	40	1267
Berry, William F., Massillon, Ohio. Balanced valve.....	374,237	Dec. 6	94	23, 24	41	1065
Berry, William R., Salado, Tex. Cotton or hay press.....	361,743	Apr. 26	1935	502	39	384
Berryman, Henry B. (See Munroe, Thomas W., assignor.)						
Bersch, John, Kingston, Pa. Pipe-coupling.....	375,253	Dec. 20	1563	409	41	1366
Berst, Conrad, Kansas City, Mo. Churn-dasher.....	362,416	May 3	486	137	39	569
Bertels, Charles E., Wilkes-Barre, Pa. Axle-nut.....	371,663	Oct. 18	1306	339	41	274
Bertling, Louis, Penge, county of Surrey, England. Lithographic process, &c.....	373,331	Nov. 15	1589	.....	41	782
Berram, Isaac H., Brock, Ohio. Wood-sawing machine.....	368,181	Aug. 16	1222	327	40	699
Bertram, Leopold B., Colville Mansions, Bayswater, county of Middlesex, assignor to F. H. Judson, Harewood, Streatham, county of Surrey, England. Construction of reservoir-dampeners for press copying-books, labels, &c.....	358,327	Feb. 22	2285	603	38	871
Bertram, Leopold B., Colville Mansions, Bayswater, county of Middlesex, assignor to F. H. Judson, Harewood, Streatham, county of Surrey, England. Stamp or label dampener.....	371,025	Oct. 4	425	106	41	85
Bertsch, Charles A., Cambridge City, Ind. Furniture-caster.....	370,369	Sept. 27	1524	409	40	1345
Beshoar, Michael, Trinidad, Colo. Crossing-guard for railways.....	374,772	Dec. 13	860	226	41	1224
Besly, Charles H., Chicago, Ill. Bracket-support for show-windows.....	361,119	Apr. 12	1042	263	39	199
Besson, Hyppolite, and E. N. Kent, London, county of Middlesex, England. Machinery for grinding glass.....	375,332	Dec. 27	1668	438	41	1395
Best, Charles E., Jordan, N. Y. Anchor.....	363,579	May 24	2142	555	39	902
Best, Daniel. (See Dewey, Henry, assignor.)						
Best, Daniel, San Leandro, Cal. Combined header and thrasher coupling.....	369,498	Sept. 6	248	70	40	1081
Best, Daniel, San Leandro, Cal. Blast-governor for grain-cleaners.....	371,411	Oct. 11	958	248	41	194
Best, Isaac, Lawrence, Mass. Wool-combing machine.....	355,296	Jan. 4	6	2, 3	38	4
Best, Isaac, Lawrence, Mass. Fiber-guide for combing-machines.....	363,794	May 31	2451	636	39	966
Best, Samuel B. (See Murtoff, Harry A., assignor.)						
Best, Theodore, <i>et al.</i> (See Ballard, James, assignor.)						
Best, William C., Seward, Nebr. Sliding-door fastener.....	370,598	Sept. 27	1875	497	40	1408
Best, William N., Los Angeles, Cal. Portable centrifugal fountain.....	370,922	Oct. 4	277	68	41	55
Bethea, Cade, Mobile, Tex. Bed-stay.....	374,443	Dec. 6	388	102	41	1120
Betsinger, Nicholas N., Marcellus, N. Y. Shipping-case for comb-honey.....	358,722	Mar. 1	449	109	38	987
Betteley, Albert, Boston, Mass. Pulley.....	360,989	Apr. 12	860	218	39	164
Betteley, Albert, Boston, Mass. Cargo-discharging apparatus.....	371,731	Oct. 18	1417	366	41	297
Betten, John C., Eureka Springs, Ark. Fire-escape.....	358,104	Feb. 22	1974	521	38	811
Betten, John C., Eureka Springs, Ark. Bustle.....	362,055	May 3	6	3	39	474
Bettendorf, William P., Davenport, Iowa. Metallic wheel.....	374,575	Dec. 13	590	154	41	1170
Bettendorf, William P., Davenport, Iowa. Wheel.....	374,576	Dec. 13	592	154	41	1170
Bettis, James R., Little Rock, Ark. Permutation-lock.....	359,838	Mar. 22	2096	530	38	1319
Betts, Charles H. (See Potter and Betts.)						
Betts, Charles L., assignor to R. E. Dietz Company, New York, N. Y. Globe-lifting device for lanterns.....	364,570	June 7	519	140	39	1185
Betts, Frank, Irwin, Colo. Car-coupling.....	355,913	Jan. 11	880	230	38	179
Betts, Fred K., New York, N. Y. Camera-shutter.....	361,856	Apr. 26	2111	547	39	416
Betts, George F., <i>et al.</i> (See Isbell, Robert H., assignor.)						
Betts, Lewis F., assignor of one-half to R. E. Dietz, New York, N. Y. Lantern.....	355,297	Jan. 4	9	3	38	4
Betts, Lewis F., assignor of one-half to R. E. Dietz, New York, N. Y. Lantern.....	359,341	Mar. 15	1311	{ 340 341 }	{ 38 39 }	1159
Betts, Lewis F., assignor, by mesne assignments, of one-half to R. E. Dietz Company, New York, N. Y. Gas-lamp.....	364,703	June 14	700	187	39	1228
Bettys, Lafayette L., Mountain View, Cal. Pump.....	359,764	Mar. 22	1987	503	38	1299
Betz, John, Jordan, Minn. Animal-catcher.....	365,568	June 28	2008	523	39	1494
Bevans, Dorsey J. (See Searles, Edward B., assignor.)						
Beverly, George W., Thomasville, Ga. Combined cotton and corn planter.....	358,723	Mar. 1	450	{ 109 110 }	{ 38 39 }	987
Beverly, Thomas, Ellis, Kans. Tube-expander.....	363,980	May 31	2732	708	39	1018
Bevington, James H., Bellevue, assignor to Bevington Signal Company, Fostoria, Ohio. Railway-torpedo.....	375,254	Dec. 20	1564	410	41	1367
Bevington Signal Company. (See Bevington, James H., assignor.)						
Bewsher, James, Kansas City, Mo. Steam-boiler safety-plug.....	375,041	Dec. 20	1272	332	41	1308
Beyer, Emil. (See Nicklas and Beyer.)						
Beyer, Ira, and A. E. Rohde, Mishicot, Wis. Cow-milking machine.....	366,810	July 19	1455	{ 389 390 }	{ 40 41 }	291
Beyerle, John F., Reading, Pa. Striking-clock for timing watches.....	370,038	Sept. 20	1053	279	40	1248
Beystum, John, Pittsburg, Pa. Rotary engine.....	358,374	Feb. 22	2347	{ 623 624 }	{ 38 39 }	882
Bibb, Bentley C. (See Klotz, Philip, assignor.)						
Bible, George W., New York, N. Y. Truss.....	373,045	Nov. 15	1157	310	41	701
Bicalky, Charles H., Minneapolis, Minn. Furnace.....	372,738	Nov. 8	670	184	41	606
Bickel, Franklin P., Hill Grove, Ohio. Washing-machine.....	361,919	Apr. 26	2196	{ 569 570 }	{ 39 40 }	432
Bickford, Charles, Boston, Mass. Device for letting down mainsprings.....	360,648	Apr. 5	362	91	39	69

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Bickford, Thomas, Cambridge, Mass. Folding crib	360,556	Apr. 5	241	60	39	47
Bickmore, Albion P., assignor of one-half to E. B. Pendleton, Hyde Park, Mass. Swing- ing or self-leveling berth	358,328	Feb. 22	2286	603	38	871
Bicknell, George J., Melrose, Mass. India matting	366,198	July 12	609	166	40	124
Bicksler, Thomas J., Washington, D. C. Manufacture of printing-plates	369,580	Sept. 6	367	102	40	1104
Biddle, Samuel C. (See Walker, Harry, assignor.)						
Bidwell, Benson, Philadelphia, Pa., assignor of one-half to C. F. Bidwell, Indianapolis, Ind. Electrical railway	373,046	Nov. 15	1159	310	41	702
Bidwell, Charles F. (See Bidwell, Benson, assignor.)						
Bidwell, Walter E. (See Greene, Charles A., assignor.)						
Bieber, Aron, Bieber, Cal. Book attachment	370,525	Sept. 27	1765	470	40	1387
Biedermann, Ernest, <i>et al.</i> (See Bollmann, Louis, assignor.)						
Bielefeld, Frank G., assignor to Adams & Westlake Manufacturing Company of Michigan, Chicago, Ill. Gas-burner	365,899	July 5	197	50	40	28
Bierau, Theodor, Rothau, Lower Alsace, Germany. Velocipede	358,533	Mar. 1	181	42	38	936
Bierau, Theodor, Rothau, Lower Alsace, Germany. Velocipede	358,590	Mar. 1	266	61, 62	38	952
Bierbach, Albert G., Milwaukee, Wis. Device for supporting and operating street-cars	359,662	Mar. 22	1825	464	38	1270
Bierer, Everard. (See Estes, Payton W., assignor.)						
Bierley, Henry A., Washington Court-House, Ohio. Money-till	364,468	June 7	373	102	39	1159
Bierline, Jacob. (See Bierline, Michael and J.)						
Bierline, Michael and J., Chaska, Minn. Clay crusher and temperer	368,643	Aug. 23	1877	501	40	834
Bierman, Charles F., Brooklyn, N. Y. Combined hook and hanger	366,369	July 12	846	227	40	167
Bierwirth, John H., <i>et al.</i> (See Marhoeffer, John, assignor.)						
Bigalow, Frederick. (See Trenholm, Ezra W., assignor.)						
Bigelow, Allen J., Ogdensburg, N. Y. Washing-machine	358,329	Feb. 22	2288	603	38	871
Bigelow, Don J., assignor of one-half to A. W. Webber, Medina, N. Y. Blacking-brush	361,393	Apr. 19	1441	372	39	283
Bigelow, George W., New Haven, Conn. Steam-engine	374,034	Nov. 29	2624	704	41	1000
Bigelow, John, Philadelphia, Pa. Sewing-machine	365,665	June 28	2146	{ 560 561 }	{ 39 39 }	1519
Bigeon, Charles, Cincinnati, Ohio. Spring bed-bottom	364,469	June 7	374	102	39	1159
Biggio, Louie, Sutter Creek, Cal. Water-wheel bucket	356,977	Feb. 1	329	88	38	483
Biggs, Frederick J., London, and S. Pardoe, Kilburn, county of Middlesex, England; said Pardoe assignor to said Biggs. Sash-fastener	370,526	Sept. 27	1765	470	40	1387
Biggs, John M. (See Bloodworth, Willis W., assignor.)						
Bigney, Robert, Copleston, Ontario, Canada. Car-coupling	357,451	Feb. 8	1016	269	38	619
Bigney, Sidney O., Attleborough, Mass. Jewelry-stock	361,857	Apr. 26	2112	547	39	417
Bigney, Sidney O., Attleborough, Mass. Ornamental chain	365,115	June 21	1330	352	39	1352
Bilda, Anna. (See Lichtenberg and Baloun, assignors.)						
Billeter, Heinrich, Jr., Aschersleben, Prussia, Germany. Automatic lubricator	375,597	Dec. 27	2030	527	41	1464
Billingham, Philip, Chambersburg, N. J. Meat-mincing machine	362,484	May 10	587	165	39	592
Billings, Albert M. (See Slayton, Samuel, assignor.)						
Billings, Arthur T., <i>et al.</i> (See Billings, Avery W., assignor.)						
Billings, Avery W., Larned, assignor of two-thirds to A. T. and W. G. Billings, Jetmore, Kans. Rotary engine	363,719	May 24	2348	{ 609 610 }	{ 39 39 }	940
Billings, Charles E., Hartford, Conn. Expansive bit	360,990	Apr. 12	862	218	39	164
Billings, Edward R., New York, N. Y. Pocket-rule	369,499	Sept. 6	249	70	40	1081
Billings, J. Douglas, New York, N. Y. Horseshoe	374,924	Dec. 20	1095	286	41	1278
Billings, Jasper, assignor of one-third to W. Royce, Toledo, Ohio. Hay-press	358,375	Feb. 22	2349	624	38	883
Billings, Louis C., <i>et al.</i> (See Parkhurst, Arthur W., assignor.)						
Billings, Louis C., and A. W. Parkhurst, Milford, N. H.; said Parkhurst assignor to said Billings. Stop-motion mechanism for spooling-machines	375,598	Dec. 27	2031	527	41	1464
Billings & Spencer Company. (See Orcutt, Harry F. L., assignor.)						
Billings, William G., <i>et al.</i> (See Billings, Avery W., assignor.)						
Billingslea, Asa A., assignor of one-half to H. C. Graves and W. V. Bratton, Cherry Grove, Ark. Railway-rail joint	355,500	Jan. 4	267	70	38	54
Billingsley, James J., Minden, La. Car-coupling	372,111	Oct. 25	1988	510	41	413
Billmeyer, Hamlin F., Milton, Pa. Trimming-machine	373,960	Nov. 29	2521	678	41	978
Billon-Haller, Jean, Geneva, Switzerland. Musical box	361,043	Apr. 12	938	237	39	178
Billups, Cealy, Norfolk, Va. Plow	362,598	May 10	748	207	39	619
Billups, Cealy, Norfolk, Va. Plow	363,109	May 17	1482	292	39	764
Binder, Frederick, Alameda, Cal. Chair-back and head-rest	375,471	Dec. 27	1854	485	41	1431
Bindley, Edwin, <i>et al.</i> (See Lackner, Frederick, assignor.)						
Bindley, John, <i>et al.</i> (See Lackner, Frederick, assignor.)						
Binford, Frank W., Grant City, Mo. Machine for weaving fences	372,197	Oct. 25	2117	544	41	437
Bingham, Charles F., Buffalo, N. Y. Stop-cock box	365,232	June 21	1486	391	39	1382
Bingham, Charles F., Buffalo, N. Y. Stop-cock box for water or gas pipes	368,372	Aug. 16	1494	399	40	753
Bingham, Charles H., Utrecht, Holland. Vending apparatus for cigars, cigarettes, &c	368,869	Aug. 23	2201	586	40	897
Bingham & Co., R. M. (See Harrigan, Cornelius, assignor.)						
Bingham, Edward W. (See Bingham, John E. and E. W.)						
Bingham, Edward W., Portland, Oreg. Sectional horseshoe	372,652	Nov. 8	548	150	41	583
Bingham, Edward W., Portland, Oreg. Sectional horseshoe	374,727	Dec. 13	796	209	41	1211
Bingham, John E., Walla Walla, Wash. Ter. Pattern for ascertaining sizes and shapes of horseshoes	355,371	Jan. 4	105	29	38	22
Bingham, John E., Walla Walla, Wash. Ter. Horseshoe	368,507	Aug. 16	1698	452	40	791
Bingham, John E., Walla Walla, Wash. Ter., and E. W. Bingham, Portland, Oreg. Horse- shoe	372,112	Oct. 25	1990	511	41	413
Bingham, Osmore A., Keene, N. H. Frame for doors, windows, &c	369,581	Sept. 6	368	102	40	1104
Bingham, Samuel J., Binghamton, N. Y., assignor of one-half to W. W. Clark, Chicago, Ill. Anti-rattler for thill-couplings	369,427	Sept. 6	162	47	40	1062
Bingham, Samuel J., Binghamton, N. Y., assignor of one-half to W. W. Clark, Chicago, Ill. Anti-rattler for thill-couplings	369,428	Sept. 6	163	47	40	1062
Bingham, Solon, assignor to B. R. Jenkins, agent, Conklingville, N. Y. Wash-board	373,217	Nov. 15	1429	377	41	752
Bini, Antonio, Brooklyn, assignor to A. Pollmann, New York, N. Y. Mandolin	362,417	May 3	487	138	39	569
Binne, Henry. (See Schumpe and Mollenkamp, assignors.)						
Binns, David, Camp Chase, Ohio. Straw-elevator for thrashing-machines	358,251	Feb. 22	2183	575	38	850
Binns, Leedham, Philadelphia, Pa. Thread-guard for cap spinning and twisting ma- chines	359,007	Mar. 8	872	221	38	1069
Birch, George A., East Greenbush, N. Y. Snow-scraper	360,196	Mar. 29	2695	681	38	1435
Birckhead, Lennox, Toledo, Ohio. Crane for excavating-machines	356,742	Feb. 1	4	1	38	423
Bird, Dulany M. W., <i>et al.</i> (See Cheshire, James L., assignor.)						
Bird, Erasmus R., Elgin, Minn. Four-horse evener	363,359	May 24	1815	477	39	838
Bird, Joseph C., Rising Sun, Md. Sulky-cultivator	365,900	July 5	198	50, 51	40	38
Bird, Joseph S., Hadley, Mich. Domestic press	365,292	June 21	1582	411	39	1398

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Bird, Justus L., <i>et al.</i> (See Cheshire, James L., assignor.)						
Bird, Lewis J. (See Smith, Charles M., assignor.)						
Bird, Lewis J., trustee. (See Smith, Charles A. and C. M., assignors.)						
Birdseye, Isaac W., Bridgeport, Conn. Corset.....	357,362	Feb. 8	887	233	38	595
Birge, Elias B., St. Paul, Minn. Steam-boiler.....	356,914	Feb. 1	238	66	38	465
Birge, George K., Buffalo, N. Y. Blank for holding ornamental settings for draperies.....	356,187	Jan. 18	1277	337	38	259
Birge, George K., Buffalo, N. Y. Routing-machine.....	360,081	Mar. 29	2507	638	38	1401
Birge, Henry W., Boonton, N. J., assignor to J. A. Skilton, trustee, New York, N. Y. Protector for postage and other stamps, &c.....	363,795	May 31	2452	637	39	966
Birgé, Isidore, assignor to Transit Apparatus Company, (limited,) Philadelphia, Pa. Store-service apparatus.....	356,978	Feb. 1	330	88	38	483
Birgé, Isidore, assignor to Transit Apparatus Company, (limited,) Philadelphia, Pa. Store-service apparatus.....	366,145	July 5	536	{ 144 } { 145 }	{ 40 }	101
Birkholz, Hans, assignor to E. P. Allis, Milwaukee, Wis. Spiral conveyer.....	368,182	Aug. 16	1223	327	40	700
Birkholz, Hans, assignor to E. P. Allis & Co., Milwaukee, Wis. Spiral conveyer.....	371,542	Oct. 18	1140	297	41	241
Birkin, William A. G., Aspley Hall, county of Nottingham, England. Breech-loading fire-arm.....	355,964	Jan. 11	961	251	38	194
Birmingham, David W., Clifton, N. Y. Separating metals from their ores.....	370,366	Sept. 20	1516	406	40	1336
Birnbaum, Mary E., Santa Barbara, Cal. Stove.....	360,197	Mar. 29	2696	681	38	1435
Birtwistle, Thomas. (See Richmond and Birtwistle.)						
Bisbee, Frederic G. and J. R., Canton, Mass. Brake for stationary engines.....	358,534	Mar. 1	183	43	38	936
Bisbee, George W. (See Hubbell and Bisbee.)						
Bisbee, John R. (See Bisbee, Frederic G. and J. R.)						
Bisbee, Wisner B., assignor to F. Taylor, Lowell, Mass. Coat-hanger.....	374,035	Nov. 29	2627	705	41	1000
Bischoff, Johann G. G. E., Hamburg, Germany. Lubricator.....	368,702	Aug. 23	1971	{ 522 } { 523 }	{ 40 }	852
Biscoe, John E. (See Hancock, Milton T., assignor.)						
Bishop, Alfred. (See Swan, Charles R., assignor.)						
Bishop, Charles R., <i>et al.</i> (See Castleman, Morris N., assignor.)						
Bishop, Clement B., assignor to B. Frishmuth, Philadelphia, Pa. Spectacles.....	372,954	Nov. 8	1009	272	41	665
Bishop, Daniel H. (See Linney, Albert J., assignor.)						
Bishop, Daniel H. (See Warden, William R., assignor.)						
Bishop, George W., Minneapolis, Minn. Window.....	373,636	Nov. 22	2062	550	41	882
Bishop, Goodwin O., Hannibal, Mo., assignor of one-half to W. J. McGavock, Topeka, Kans. Nut-lock.....	355,372	Jan. 4	106	29	38	22
Bishop, Robert H. (See Sim and Bishop.)						
Bishop, Rudolph W. (See Nolen, Bishop, and Waltemeyer.)						
Bishop, William, Brooklyn, N. Y. Plumber's ferrule.....	368,508	Aug. 16	1700	453	40	791
Bishop, William H., New Haven, Conn. Automatic gate for railways-crossings.....	370,117	Sept. 20	1168	309	40	1268
Bisler, Gustav A., Philadelphia, Pa. Frame for trimmings.....	355,501	Jan. 4	268	71	38	54
Bisler, Gustav A., Philadelphia, Pa. Sample or exhibition box.....	355,914	Jan. 11	881	231	38	179
Bissell Carpet Sweeper Company. (See Drew, Walter J., assignor.)						
Bissell, Daniel J., Anamosa, Iowa. Cultivator attachment.....	363,981	May 31	2733	708	39	1018
Bissell, John H. (See Cope, Henry P., assignor.)						
Bissett, Edwin H. (See Evans and Bissett.)						
Bissett, Edwin H., Winnipeg, Manitoba, Canada. Nail-cutting machine.....	361,744	Apr. 26	1937	{ 502 } { 503 }	{ 39 }	384
Bissing, Justus, Catharine, Kans. Harvester.....	364,748	June 14	763	{ 202 } { 203 }	{ 39 }	1240
Bittenbender, Jacob C. (See Smith and Bittenbender.)						
Bittenbender, John K. (See Wirt and Bittenbender.)						
Bittenbender, John K., Bloomsburg, Pa. Ink-fountain for printing-machines.....	355,965	Jan. 11	963	252	38	195
Bittenbender, John K., Bloomsburg, Pa. Fountain-pen.....	370,599	Sept. 27	1876	498	40	1408
Bittner, C. J. P. (See Grammes, Lewis F., assignor.)						
Biven, Frederick, assignor of two-thirds to C. C. and H. H. Moore, Stockton, Cal. Incubator.....	369,682	Sept. 13	515	143	40	1142
Bixby, Arthur, assignor to G. W. Grafflin, Baltimore, Md. Telegraph-transmitter.....	374,390	Dec. 6	310	83	41	1105
Bixby, Arthur, assignor of three-fourths to S. G. B. Cook, Baltimore, Md. Printing-tele-graph.....	374,444	Dec. 6	389	{ 102 } { 103 }	{ 41 }	1120
Bixby, Samuel M., New York, N. Y. Handled blacking-box.....	359,705	Mar. 22	1891	480	38	1283
Bixby, Samuel M., New York, N. Y. Metal bottle for liquid blacking.....	368,318	Aug. 16	1425	377	40	738
Bjerkness, Carl J., Arkdale, Wis. Repeating fire-arm.....	357,170	Feb. 8	637	165	38	547
Black, Charles E., <i>et al.</i> (See Tabony, Joseph H., assignor.)						
Black, Charles S. (See Howard, Hull, and Black.)						
Black, Edward N., <i>et al.</i> (See Peyton, Bernard R., assignor.)						
Black, James E., <i>et al.</i> (See Helms, Jacob H., assignor.)						
Black, John M., London, county of Middlesex, England. Ticket bell-punch.....	374,288	Dec. 6	160	42	41	1078
Black, John S., Summer Hill, Ill. Lifting-jack.....	356,443	Jan. 25	1645	432	38	337
Black, Joseph P., assignor to Hapgood Plow Company, Alton, Ill. Cultivator.....	355,915	Jan. 11	882	231	38	179
Black, Joseph P., assignor to Hapgood Plow Company, Alton, Ill. Cultivator.....	355,916	Jan. 11	883	231	38	179
Black, Joseph P., assignor to Hapgood Plow Company, Alton, Ill. Planting-plow.....	360,271	Mar. 29	2809	714	38	1457
Black, Thomas, <i>et al.</i> (See Rodger, Thomas, assignor.)						
Black, Thomas J., Patoka, Ill. Weighing-faucet.....	363,273	May 17	1699	444	39	807
Black, William F. (See Cox and Black.)						
Blackall, Benton F. (See Ross and McAllister, assignors.)						
Blackall, Robert C., <i>et al.</i> (See Adams, Henry P., assignor.)						
Blackall, Robert C., <i>et al.</i> (See Archer, Samuel B., assignor.)						
Blackburn, Joseph E., Wheeling, and W. I. Mann, Benwood, W. Va. Machine for finish-ing articles of glassware.....	363,580	May 24	2143	{ 555 } { 556 }	{ 39 }	902
Blackburn, Melvin L., Bellaire, Ohio. Glass-mold.....	359,553	Mar. 15	1646	421	38	1221
Blackburn, Robert. (See Brooks, John C., assignor.)						
Blackburn, Samuel. (See Blackburn, William and S.)						
Blackburn, William and S., Cleckheaton, county of York, England. Tightener for spin-dle-bands of spinning-machines.....	356,239	Jan. 18	1350	356	38	273
Blackford, Atwell J., Medina, Ohio. Revolving show-case.....	362,814	May 10	1062	288	39	678
Blackford, William H., assignor to Detroit Casket Company, Detroit, Mich. Casket-handle.....	374,110	Nov. 29	2737	734	41	1022
Blackham, Eli J., Bridgeport, assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Knob.....	369,907	Sept. 13	835	221	40	1201
Blackman, Henry, New York, N. Y. Process of and apparatus for disintegrating fibers and manufacturing paper-pulp.....	369,834	Sept. 13	715	{ 192 } { 193 }	{ 40 }	1179
Blackman, Henry, New York, N. Y. Process of and apparatus for manufacturing paper-pulp.....	369,835	Sept. 13	721	{ 193 } { 194 }	{ 40 }	1180
Blackman, Henry, New York, N. Y. Disintegrating fibers and manufacturing paper-pulp.....	369,836	Sept. 13	726	{ 194 } { 195 }	{ 40 }	1181

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Blackmer, Francis A., Springfield, Mass. Folding and adjustable table.....	366,069	July 5	438	119	40	83
Blackwelder, Manly L., assignor of one-half to D. R. Hoover, Concord, N. C. Attachment for cotton-gins.....	369,977	Sept. 13	952	251	40	1222
Blackwelder, Richard M., Concord, N. C. Attachment for cotton-gins.....	369,978	Sept. 13	954	252	40	1222
Blades, Harry H., Detroit, Mich. Combined electric motor and fan.....	375,255	Dec. 20	1565	410	41	1367
Blaikie, Alexander J., assignor of one-half to J. Hunter, Sterling Valley, N. Y. Automatic hatchway for elevators.....	370,308	Sept. 20	1426	383	40	1319
Blaine, George E., Dayton, Ohio. Dumping-car.....	366,917	July 19	1594	{ 426 427 }	{ 40 }	318
Blair, Andrew M. (See Perry, Isaac A., assignor.)						
Blair, Frank M. (See Blodgett, John W., assignor.)						
Blair, George W., et al. (See James, Charles H., assignor.)						
Blair, J. H. (See Buttler, William, assignor.)						
Blair, James C. (See Ackerman and Blair.)						
Blair, John, New York, N. Y. Fountain-pen.....	362,709	May 10	911	248	39	650
Blair, La Fayette, Painesville, Ohio. Cutting-tool gage.....	369,908	Sept. 13	836	221	40	1202
Blair, Llewellyn P., Baltimore, Md. Gas-governor.....	374,445	Dec. 6	395	103	41	1120
Blair, Thomas H., Boston, Mass. Photographic camera.....	362,599	May 10	750	207	39	619
Blair, Thomas H., Boston, Mass. Tripod-top for photographic cameras.....	364,629	June 14	597	160	39	1208
Blair, Thomas H., Boston, Mass. Camera-plate holder for holding negative-paper.....	370,370	Sept. 27	1526	409	40	1345
Blake, C. M., et al. (See Howe, Patrick, assignor.)						
Blake, Charles J. (See Ehrlich, Leo, assignor.)						
Blake, Edward A., Chicago, Ill. Blackleading matrices for electrotypes.....	362,927	May 17	1224	326	39	714
Blake, Edward A., Chicago, Ill., assignor to Empire Machine Company, Stonington, Conn. Planing-machine.....	361,669	Apr. 26	1839	476	39	368
Blake, Francis, Weston, assignor to American Bell Telephone Company, Boston, Mass. Telephone-transmitter.....	357,452	Feb. 8	1017	270	38	619
Blake, George W., assignor to Rutzler & Blake, New York, N. Y. Water-heating apparatus.....	372,249	Oct. 25	2195	563	41	453
Blake, Hiram, Keene, assignor to Ashuelot Can Company, Winchester, N. H. Faucet-guard.....	361,609	Apr. 19	1737	448	39	340
Blake, Jacob. (See Brown and Blake.)						
Blake, John F., Boston, Mass. Apparatus for boiling or heating liquids or other substances.....	364,470	June 7	375	102	39	1159
Blake, Joseph M., Buffalo, N. Y. Dumping-wagon.....	365,233	June 21	1487	391	39	1382
Blake, Joseph M., Buffalo, N. Y. Lumber-wagon.....	365,569	June 28	2009	524	39	1494
Blake Manufacturing Company, George F. (See Wheeler, Frederick M., assignor.)						
Blake, W. H., 2d, et al. (See Donahue, James H., assignor.)						
Blake, Walter H., et al. (See Cushman, Adoniram J., assignor.)						
Blakeley, Charles C., Albion, Mich. Reversible galley-support.....	372,955	Nov. 8	1010	272	41	665
Blakely, Edward A. (See Spangenberg, Robert F., assignor.)						
Blakeman, George S., Paxton, Ind. Fender.....	357,654	Feb. 15	1337	352	38	688
Blakeslee, Edward C., Brooklyn, assignor to Eagle Pencil Company, New York, N. Y. Rubber-tip attachment for lead-pencils.....	357,949	Feb. 15	1747	456	38	765
Blakeslee, Elson. (See Darby and Blakeslee.)						
Blakeslee, Harry D. (See Basinger, James M., assignor.)						
Blakeslee, Harvey D., et al. (See Latta, Emmitt G., assignor.)						
Blakeslee, John R., Cuyahoga Falls, Ohio. Bolt-heading machine.....	364,208	June 7	16	4, 5	39	1091
Blakeslee, Owen B., Burlingame, Kans. Joint-lock for stove-pipes.....	368,703	Aug. 23	1972	523	40	852
Blakesley, Alpheus M., and D. G. White, Rock Island, Ill.; said White assignor to said Blakesley. Damper for stoves.....	358,330	Feb. 22	2289	604	38	871
Blakney, Joseph C., Benton, Me. Nut-lock.....	372,739	Nov. 8	672	184	41	606
Blanc, Frederic N., New York, N. Y. Subway structure for city streets.....	358,331	Feb. 22	2290	604	38	872
Blanchard, Albert D., Wichita, Kans. Gun.....	369,313	Sept. 6	9	3	40	1036
Blanchard, Milton. (See Wescott, Earl A., assignor.)						
Blanchard, Virgil W., assignor to C. G. Patterson, New York, N. Y. Type-writing machine.....	373,637	Nov. 22	2063	{ 550 551 }	{ 41 }	882
Blanchard, William H., Pownal, Vt. Tension device for grain-binders.....	355,678	Jan. 11	525	138	38	112
Blankley, James A., and C. H. Tallman, Bellaire, Ohio. Lantern.....	363,581	May 24	2145	556	39	902
Blasdale, John, Baltimore, Md., assignor to Tanner & Delaney Engine Company, Richmond, Va. Locomotive.....	367,335	July 26	2189	588	40	437
Blaser, Auguste, Cincinnati, Ohio. Column for buildings.....	360,134	Mar. 29	2603	660	38	1418
Blatchly, Ambrose, San Francisco, Cal. Fruit-drier.....	373,808	Nov. 29	2309	619	41	939
Bláthy, Otto T., Buda-Pesth, Austria-Hungary. Induction-coil.....	360,198	Mar. 29	2697	681	38	1436
Blechschildt, Gustav, assignor to Peru Plow and Wheel Company, Peru, Ill. Implement for stirring the soil.....	368,644	Aug. 23	1879	501	40	834
Blesh, William, Lock Haven, Pa. Toboggan.....	375,042	Dec. 20	1272	332	41	1309
Blessington, Stephen G. (See Connor and Blessington.)						
Blessington, Thomas F. (See Connor and Blessington.)						
Blevins, Beane. (See Stone, Charles M., assignor.)						
Blew, Alfred J., Fawley Lodge, Hythe, near Southampton, England. Fire-escape.....	355,917	Jan. 11	884	231	38	179
Blickensderfer, George C., Erie, Pa., assignor to United States Store Service Company, Albany, N. Y. Conveyer apparatus.....	359,957	Mar. 22	2290	{ 576 577 }	{ 38 }	1354
Blickensderfer, George C., Erie, Pa., assignor to United States Store Service Company, Albany, N. Y. Conveyer apparatus.....	359,991	Mar. 29	2347	{ 591 592 }	{ 38 }	1371
Blinkhorn, Thomas, Boston, county of Lincoln, England. Roundabout.....	372,296	Nov. 1	15	5	41	473
Blinkhorn, Thomas, and W. S. Key, Boston, county of Lincoln, England. Roundabout.....	371,412	Oct. 11	959	248	41	195
Blinn, Marshall K., Toledo, Ohio. Valve for water-gages.....	368,373	Aug. 16	1495	399	40	753
Blish, Henry G., Windsor, N. Y. Whip-rack.....	360,272	Mar. 29	2810	714	38	1457
Bliss Company, E. W. (See Hart, Charles L., assignor.)						
Bliss Company, E. W. (See Leavitt, Frank M., assignor.)						
Bliss, Edward M., Spencer, Mass. Cloth-measuring machine.....	370,175	Sept. 20	1255	{ 333 334 }	{ 40 }	1286
Bliss, Edward N., Newark, N. J. Dynamo-armature.....	374,728	Dec. 13	797	209	41	1211
Bliss, Henry C., West Springfield, Mass. Safety-razor.....	369,909	Sept. 13	837	222	40	1202
Block, David, New York, N. Y. Broom.....	362,056	May 3	8	3	39	474
Block, Joseph. (See Gentry, Oliver H., assignor.)						
Blodget, Henry G., assignor of one-half to W. Kriesel, Harrisburg, Oreg. Gold-washing machine.....	363,198	May 17	1603	420	39	789
Blodgett, Aaron D., Boston, Mass. Annunciator.....	359,051	Mar. 8	927	236	38	1080
Blodgett, Frank M., New York, N. Y. Stethoscope.....	359,382	Mar. 15	1389	355	38	1173
Blodgett, John W., Highwood, assignor of one-half to F. M. Blair, Chicago, Ill. Button-hole attachment for sewing-machines.....	360,649	Apr. 5	363	91, 92	39	69
Blodgett, John W., assignor to Moore Manufacturing Company, Chicago, Ill. Button-hole attachment for sewing-machines.....	366,616	July 12	1188	318	40	234

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Bloeser, Rudolph, Scranton, Pa. Jar-fastener.....	370,676	Sept. 27	1987	528	40	1430
Blok, Charles, Merrill, Wis. Horse-collar.....	358,252	Feb. 22	2184	575	38	851
Blok, Charles, Merrill, Wis. Horse-collar.....	362,353	May 3	388	107	39	550
Blomstrom, John, assignor to H. W. Price, Rockford, Ill. Glove	360,135	Mar. 29	2605	660	38	1418
Blondheim, Michael, Baltimore, Md. Waistband attachment.....	372,511	Nov. 1	329	90	41	533
Blood, Arthur R. (See Blood, Bryant H., A. R., and E. R.)						
Blood, Bryant H., A. R., and E. R., Ludlow, Pa. Boiler-feed regulator	356,676	Jan. 25	1969	517	38	399
Blood, Charles, Dunkirk, N. Y. Cooling-board	362,057	May 3	9	3	39	474
Blood, Daniel H. (See Parker, Blood, and Tower.)						
Blood, Edwin J., Chicago, Ill. Cannon.....	374,577	Dec. 13	592	{ 154 155 }	{ 41 }	1170
Blood, Erastus R. (See Blood, Bryant H., A. R., and E. R.)						
Blood, Ira A., Methuen, Mass. Loom-shuttle spindle	369,683	Sept. 13	516	143	40	1143
Blood, John H., Denver, Colo. Hose-holder.....	375,472	Dec. 27	1855	485	41	1431
Bloodworth, Willis W., assignor to himself and J. M. Biggs, Molino, Fla. Staple-driver ..	373,265	Nov. 15	1487	392	41	762
Bloom, John C., Kalamazoo, Mich., assignor to Emerson, Talcott & Company, Rockford, Ill. Mowing-machine	369,225	Aug. 30	2692	715	40	1001
Bloom, Wieland H., Galt, Ill. Telegraphic transmitter	368,450	Aug. 16	1616	432	40	776
Bloomer, Charles G., Pawtuxet, R. I. Cuff-holder.....	370,039	Sept. 20	1054	279	40	1248
Blossfeld, Emil, San Francisco, Cal. Velocipede.....	363,360	May 24	1816	477	39	838
Blossom, Cyrus H. (See Scott, Heise, and Blossom.)						
Blount, Eugene I., Cambridge, and C. A. Kimpton, Boston, Mass., assignors to Gilman } Cash Railway Company, Saco, Me. Cash and parcel carrier	361,120	Apr. 12	1043	{ 263 264 }	{ 39 }	199
Blount, Harry W. (See Duvall, William T., assignor.)						
Blount, John A. (See Myers, Hiram, assignor.)						
Blount, John A., Springfield, Ohio. Cultivator	360,410	Apr. 5	11	3	39	4
Blount Stave Machine Company. (See Philbrick, Josiah J., assignor.)						
Blowers, George O., assignor to J. Arkell, Canajoharie, N. Y. Paper box	356,093	Jan. 18	1152	305	38	237
Blue, Dennis S., and L. Halter, Fremont, Ohio. Cultivator	356,094	Jan. 18	1154	{ 305 306 }	{ 38 }	237
Bluford, Ignatius, Elizabeth City, N. C. Two-wheeled vehicle	357,972	Feb. 15	1783	468	38	771
Bluhm, Charles A., Michigan City, Ind. Refrigerator	365,901	July 5	201	51, 52	40	39
Blum, Emil. (See Grüneberg and Blum.)						
Blume, William, Scranton, Pa. Spring-gear for vehicles	373,920	Nov. 29	2464	662	41	968
Blume, William, Scranton, Pa. Buggy-top.....	374,925	Dec. 20	1097	286	41	1278
Blumenberg, Julius, Martin's Ferry, Ohio. Machine for crimping glassware	358,724	Mar. 1	451	110	38	987
Blumentahl, Leon, and J. G. Steele, assignors of one-third to M. R. Cohen, Kansas City, Mo. Medical compound.....	363,448	May 24	1941	.....	39	861
Blumrich, Max, assignor of one-half to H. Stockman, Philadelphia, Pa. Operation of motive-power apparatus	374,926	Dec. 20	1098	.....	41	1278
Blunt, Walter F., Galveston, Tex. Mosquito-bar and carriage-umbrella	373,809	Nov. 29	2311	619	41	939
Blust, Charles, assignor to W. Schimper & Co., New York, N. Y. Fastening for bag or pocket-book frames	356,915	Feb. 1	239	66	38	466
Blust, Charles, assignor to W. Schimper & Co., New York, N. Y. Fastening for bag or pocket-book frames	358,958	Mar. 8	801	202	38	1057
Blust, Charles, assignor to W. Schimper & Co., New York, N. Y. Fastening for bag or pocket-book frames	363,042	May 17	1392	368	39	747
Blydenburgh, Charles M. (See Woodhull and Blydenburgh.)						
Blydenburgh, Charles M., Riverhead, N. Y. Vehicle running-gear.....	371,413	Oct. 11	960	249	41	195
Blydenburgh, Charles M., Riverhead, N. Y. Vehicle-spring.....	372,059	Oct. 25	1909	492	41	398
Blydenburgh, Charles M., Riverhead, N. Y. Vehicle-spring.....	375,256	Dec. 20	1566	410	41	1367
Blydenburgh, Levi N. (See Fowler, Herbert E., assignor.)						
Boals, James A., assignor to Pneumatic Machine and Oil Company, McDonald, Pa. Device for raising oil from oil-wells	364,084	May 31	2862	742	39	1044
Board, James L. (See Clapp, James H., assignor.)						
Bobrick, Gabriel A., Boston, Mass. Desk and chair for schools.....	370,923	Oct. 4	278	68	41	55
Bock, Leo, Jr. (See Darling and Bock.)						
Bock, Leo, Jr., New York, N. Y. Telegraphy	364,471	June 7	376	103	39	1159
Bock, Leo, Jr., New York, N. Y. Recording and reproducing sound-waves.....	364,472	June 7	378	103	39	1159
Bockmühl, Ernst, and W. Karthaus, Barmen, Rittershausen, Prussia, Germany. Driving-belt.....	372,297	Nov. 1	16	5	41	474
Boeckstiegel, Louis F. (See Witthoeft, William, Jr., assignor.)						
Bodeman, Henry W., San Francisco, Cal. Adjustable stove-grate	362,919	May 10	1210	323	39	705
Boden, George C. (See Hobert, Heuston H., assignor.)						
Bodenstein, Henry, Staatsburg, N. Y. Inserted tooth fastening for ice-plows.....	365,570	June 28	2011	524	39	1494
Bodey, Howard, Philadelphia, Pa. Kindergarten apparatus for teaching spelling	371,815	Oct. 18	1536	397	41	320
Bodge, John M., assignor of one-half to M. M. Conner, Ada, Ohio. Brooder for rearing young chickens.....	375,692	Dec. 27	2173	565	41	1489
Bodifield, Charles T., Akron, Ohio. Leather belting	375,333	Dec. 27	1670	438	41	1395
Boegler, Gustav, Karlsruhe, Baden, Germany. Bathing-stove.....	360,199	Mar. 29	2698	682	38	1436
Boehm, David I. (See Forbes, William H., assignor.)						
Boehm, David J. (See Cameron, James W., assignor.)						
Boekel, William, Philadelphia, Pa. Gas-burner	358,332	Feb. 22	2292	604	38	872
Boeklen, Reinhold, Brooklyn, N. Y. Apparatus for generating illuminating-gas	363,945	May 31	2667	{ 692 693 }	{ 39 }	1005
Boekler, Robert C., Mankato, Minn. Churn	364,793	June 14	852	223	39	1254
Boekler, Robert C., Mankato, Minn. Barrel-head and fastening	374,446	Dec. 6	396	104	41	1121
Boesch, Emil, San Francisco, Cal. Tubular lantern.....	358,186	Feb. 22	2104	{ 555 556 }	{ 38 }	835
Bogardus, Frank, trustee. (See Smith, Elizabeth W., assignor.)						
Bogardus, Washington A. H., New York, N. Y. Recording-thermometer.....	368,319	Aug. 16	1426	{ 377 378 }	{ 40 }	739
Bogardus, Washington A. H., New York, N. Y. Scale-track section	373,579	Nov. 22	1981	526	41	865
Bogert, John L. (See Kenworthy, John T., assignor.)						
Bogert, John L., Flushing, N. Y. Tool-holder for lathes	368,749	Aug. 23	2036	539	40	864
Bogert, John L., Flushing, N. Y. Friction-clutch.....	370,118	Sept. 20	1170	310	40	1268
Bogert, John L., Flushing, N. Y. Lubricating loose pulleys.....	370,527	Sept. 27	1767	470	40	1388
Bogert, John L., Flushing, N. Y. Tool-holder for lathes.....	373,878	Nov. 29	2406	{ 646 647 }	{ 41 }	956
Bogert, John L., Flushing, N. Y. Manufacture of metallic tubes	375,043	Dec. 20	1273	332	41	1309
Bogress, James S. (See Roth, Charles F., assignor.)						
Bogle, James S. (See Connel, James M., assignor.)						
Bogle, Jerome, et al. (See Baldwin, Albert O., assignor.)						
Bohm, Ernst A., San Francisco, Cal. Ruching for decorative purposes	364,085	May 31	2864	743	39	1045

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Bohn, René, Ludwigshafen, Bavaria, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of soluble naphthazarin.....	368,054	Aug. 9	1043		40	657
Böhni, Albert. (See Maron and Böhni.)						
Boice, Alvin S., New Richland, Minn. Permutation-lock.....	372,512	Nov. 1	330	91	41	533
Boin, George S., Salinas, Cal. Fumigator.....	370,233	Sept. 20	1328	354	40	1299
Boisen, William, Luzerne, Iowa. Glass-cutter's combined frame and square.....	362,354	May 3	389	108	39	550
Boivin, Guillaume, Montreal, Quebec, Canada. Boot or shoe.....	366,757	July 19	1391	372	40	280
Boker, George H. (See Howell, William G., assignor.)						
Boland, John, assignor of one-half to I. F. Lawler, Raymond, Ill. Hay-ricker.....	366,617	July 12	1191	319	40	235
Bole, John, Allegheny County, Pa. Casing-spear for Artesian wells.....	357,899	Feb. 15	1682	438	38	752
Bole, Robert J., Beaver Falls, Pa. Reversible saw-tooth.....	374,821	Dec. 13	934	243	41	1238
Bollen, John C., McConnellsville, Ohio. Coat-sleeve.....	359,052	Mar. 8	928	236	38	1080
Bolen, Lawrence C., assignor to L. L. Davis, Springfield, Mass. Ratchet bit-brace.....	360,650	Apr. 5	366	92	39	70
Boles, Warren H., Syracuse, N. Y. Photograph-burnisher.....	356,399	Jan. 18	1576	{ 414 415 }	{ 38 40 }	316
Boleska, Joseph, St. Louis, Mo. Horse-collar.....	367,950	Aug. 9	895	242	40	629
Bolgiano, Gilbert C. (See Foster, Eldridge M., assignor.)						
Bolgiano, Gilbert C., Baltimore, Md. Combined street-railway rail and conduit.....	366,811	July 19	1458	390	40	292
Bollenbacher, William P., Bloomington, Ind. Cigar-box.....	371,026	Oct. 4	426	107	41	85
Bolling, Beverly D., et al. (See Jenkins, Marion R., assignor.)						
Bollmann, Louis, assignor of one-half to E. Biedermann and D. Monnier, Vienna, Austria-Hungary. Apparatus for transforming electric currents.....	365,116	June 21	1331	353	39	1352
Bolson, William, Oconomowoc, Wis. Revolving signal-light.....	373,047	Nov. 15	1160	{ 310 311 }	{ 41 40 }	702
Bolt, Thomas, Middlesborough, county of York, England. Car-coupling.....	368,320	Aug. 16	1428	378	40	739
Bolton, George, Peterborough, Ontario, Canada. Boiler.....	368,645	Aug. 23	1880	501	40	835
Bolton, George E., et al. (See Knowlton, Charles H., assignor.)						
Bolton, Gideon S., et al. (See Dunn, William, assignor.)						
Bolton, Henry F., assignor of one-half to N. R. Wilder, Dow City, Iowa. Clothes-drier.....	373,004	Nov. 8	1031	291	41	680
Bolton, James, Glen Spey, N. Y. Shuttle-operating mechanism for sewing-machines.....	367,021	July 26	1729	466	40	351
Bolton, James, Glen Spey, N. Y. Stand and cover for sewing-machines.....	374,578	Dec. 13	505	155	41	1171
Bolton, James M., Sioux City, Iowa. Cuff-holder.....	374,579	Dec. 13	597	155	41	1171
Boluss, Clarence W., Norwood, Ohio. Diaphragm-motor.....	360,651	Apr. 5	368	93	39	70
Bolz, Jacob. (See Keenan, Patrick J., assignor.)						
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Box or case.....	356,979	Feb. 1	331	88	38	484
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Holder for pens, &c.....	363,582	May 24	2147	556	39	903
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Rubber-tip attachment for lead-pencils and the like.....	363,583	May 24	2148	557	39	903
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Holder for pens, &c.....	363,584	May 24	2149	557	39	903
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Reversible tip for lead-pencils, &c.....	364,473	June 7	380	103	39	1160
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Rubber-tip attachment for pencils and other articles.....	368,509	Aug. 16	1702	453	40	791
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Lead or crayon holder.....	372,198	Oct. 25	2118	544	41	437
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Compass attachment for pencils.....	375,257	Dec. 20	1567	411	41	1367
Bommer, Emil, Brooklyn, N. Y. Pants-stretcher.....	356,864	Feb. 1	172	46	38	454
Bon, John T., Syracuse, N. Y. Folding table.....	367,589	Aug. 2	339	97	40	516
Bon, John T., Syracuse, N. Y. Folding table.....	368,055	Aug. 9	1043	280	40	657
Bond, Addie, assignor to J. Jenkins, New York, N. Y. Cuff-retainer.....	368,750	Aug. 23	2038	540	40	865
Bond, Edwin H., administrator. (See Cockshutt, James G.)						
Bond, George, administrator. (See Bond, Joseph, Jr.)						
Bond, George S., Charlestown, N. H. Method of and appliance for bending wood.....	360,848	Apr. 12	642	170	39	127
Bond, George S., Charlestown, N. H. Violin-case and making the same.....	361,123	Apr. 12	1048	265	39	200
Bond, Henry W., Jr., and J. A. Dakin, Holyoke, Mass. Sheet-steaming attachment for calendering-machines.....	371,732	Oct. 18	1419	367	41	297
Bond, Joseph, Jr., deceased, Philadelphia, Pa.; G. Bond, administrator. Tension device for sewing-machines.....	361,127	Apr. 12	1056	267	39	201
Bond, Nathan O., Fairfax Court-House, Va. Wash-stand.....	369,684	Sept. 13	517	143	40	1143
Bond, Stephen, Constantinople, Turkey. Smoke-consuming furnace.....	365,571	June 28	2012	{ 524 525 }	{ 39 40 }	1495
Bond, William A., Philadelphia, Pa. Siphon or spigot extension or shank.....	366,070	July 5	439	119	40	83
Bond, William A., Lynn, Mass. Sole-edge-trimming tool.....	375,334	Dec. 27	1670	439	41	1396
Bonehill, Robert, St. Louis, Mo., assignor of five-eighths to W. Vernon, Derbyshire, England; J. M. Frost, J. Henry, and F. D. Hirschberg, St. Louis, Mo. Furnace for smelting and reducing metals from minerals.....	359,199	Mar. 8	1111	{ 289 290 }	{ 38 40 }	1115
Bonham, William P., Marion, Va. Harrow.....	363,274	May 17	1699	445	39	808
Boni, Frank H., Elvaston, Ill. Cart.....	364,474	June 7	381	103	39	1160
Bonker, George, Sedalia, Mo. Slide-valve.....	374,289	Dec. 6	162	42	41	1078
Bonna, Aimé, Paris, France. Piston-meter.....	366,370	July 12	847	228	40	167
Bonneau, Félicien P., assignor of one-fourth to J. F. Sandoz, New York, N. Y. Forming bearings for watches.....	372,113	Oct. 25	1991	511	41	413
Bonnell, John C., and D. Gilson, Burlington, Iowa. Head-rest.....	357,305	Feb. 8	823	214	38	583
Bonnem, Abraham, et al. (See Choinanus, Richard, assignor.)						
Bonner, Andrew J., Jr., Philadelphia, Pa. Awning or roofing.....	366,071	July 5	441	119	40	83
Bonner, Hugh, New York, N. Y. Life-saving net for use at fires.....	360,082	Mar. 29	2509	638	38	1402
Bonner, Joseph C. (See Ames, John, Jr., assignor.)						
Bonnet, Antoine, Voiron, Isère, assignor of one-third to J. Thorrand and V. Nicolet, Grenoble, France. Preparing cement.....	368,449	Aug. 16	1615	.....	40	776
Bonnevaux, Jacques E. (See Verrier and Bonnevaux.)						
Bonney, Charles S., Philadelphia, Pa. Pipe-vise.....	357,306	Feb. 8	824	214	38	583
Bonney, James T., New Bedford, Mass. Tension-regulating device for loom-shuttles.....	366,296	July 12	744	202	40	148
Bonnheim, Albert, et al. (See Lubin, David, assignor.)						
Bonniol, Adolph, Providence, R. I. Engraver's tool or scraper.....	366,297	July 12	745	202	40	148
Bonsack, J. William, Bonsack's, Va. Comb-plate for doffer-combs of carding-engines.....	363,199	May 17	1604	421	39	789
Bonsack, James A., Bonsack's, Va. Cigarette-machine.....	355,968	Jan. 11	969	{ 253 254 }	{ 38 40 }	196
Bonser, Samuel, Dover, N. H. Steam-trap.....	370,600	Sept. 27	1878	498	40	1408
Bonta, James W., Philadelphia, Pa. Telephoning.....	361,124	Apr. 12	1049	265	39	200
Bonta, James W., Philadelphia, Pa., assignor to American National Telephone Company, of New York. Telephone-transmitter.....	364,475	June 7	382	104	39	1160
Bonta, James W., Philadelphia, Pa., assignor to American National Telephone Company, of New York. Telephone-transmitter.....	365,776	July 5	9	3	40	4

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Bonta, James W., Philadelphia, Pa., assignor to American National Telephone Company, of New York. Telephone-transmitter	365,777	July 5	10	3	40	5
Bonta, James W., Philadelphia, Pa., assignor to American National Telephone Company, of New York. Telephone-transmitter	365,778	July 5	12	4	40	5
Bonta, James W., Philadelphia, Pa., assignor to American National Telephone Company, of New York. Telephone-transmitter	365,779	July 5	12	4	40	5
Bonta, James W., Philadelphia, Pa., assignor to American National Telephone Company, of New York. Telephonic transmitter	365,780	July 5	13	4	40	5
Bonta, James W., Philadelphia, Pa., assignor to American National Telephone Company, of New York. Telephone-transmitter	365,781	July 5	14	5	40	5
Bonter, Francis B. H. (See Hammond, Everett C., assignor.)						
Bonwill, William G. A., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental engine	372,397	Nov 1	167	47, 48	41	501
Bonwill, William G. A., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Revolving electric hammer tool	374,580	Dec. 13	597	156	41	1171
Bonzagni, Vincenzo, Boston, Mass. Pipe and flue connection	365,783	July 5	16	5	40	6
Boog, Michael, New York, N. Y. Composition of matter for making imitations of stalactites and grotto-work	371,027	Oct. 4	427		41	85
Booker, John I., Liverpool, county of Lancaster, England. Grain cleaning and washing apparatus	369,768	Sept. 13	622	{ 167 168 }	{ 40 40 }	{ 1161 1161 }
Bookman, Adolph, Brooklyn, N. Y. Overalls	362,710	May 10	912	249	39	650
Boomer & Boschert Press Company. (See Tooley, Samuel E., assignor.)						
Boomer, George B., Mount Pleasant, N. Y. Cotton-bale tie	365,572	June 28	2013	525	39	1495
Boomer, Joseph B., and W. Strowger, Toronto, Ontario, Canada. Marking-pot	365,361	June 28	1684	439	39	1431
Boon, George H. (See King and Boon)						
Booraem, John V. V., Brooklyn, N. Y. Pumping and distributing semi-fluids or liquids holding solid matter in suspension	357,363	Feb. 8	888	234	38	595
Boorn, George H., Bellows Falls, assignor of one-half to C. E. Robertson, Rockingham, Vt. Device for cleaning the shower-pipes used in paper-mills	374,290	Dec. 6	163	43	41	1078
Boos, Arthur M., Buffalo, N. Y. Picture-exhibitor	357,757	Feb. 15	1495	391	38	718
Boot and Shoe Sole Laying Company. (See Hamm, William S., assignor.)						
Boot and Shoe Sole Laying Company. (See Holland, Charles E., assignor.)						
Boot and Shoe Sole Laying Company. (See Seaver and Hamm, assignors.)						
Bootes, Joseph H., Springfield, Ohio. Burial-casket	358,007	Feb. 15	1833	483	38	780
Booth, Constant W., and T. Brabson, Brooklyn, N. Y. Oiler	368,183	Aug. 16	1225	328	40	700
Booth, Irving E., Rochester, N. Y. Machine for stretching and finishing shoes	355,966	Jan. 11	966	252	38	195
Booth, Irving E., Rochester, N. Y. Shoe-stretching machine	364,889	June 14	987	260	39	1280
Booth, Isaac N., and E. Hughes, West Concord, Minn. Trough for feeding salt to live stock	355,967	Jan. 11	968	253	38	196
Booth, Jared. (See Moulton and Booth.)						
Booth, John, Indianapolis, Ind. Balanced slide-valve	355,432	Jan. 4	180	48	38	36
Booth, John, Indianapolis, Ind. Slide-valve	355,433	Jan. 4	181	48	38	37
Booth, John, Central Falls, R. I. Spinning-spindle and support therefor	359,342	Mar. 15	1313	341	38	1160
Booth, John, Central Falls, R. I. Holder for spinning-rings	370,234	Sept. 20	1328	355	40	1300
Booth, John, Central Falls, R. I. Spinning-spindle and support therefor. (Reissue)	10,884	Nov. 29	2808	754	41	1034
Booth, John E., Bangor, Me. Moccasin shoe	355,755	Jan. 11	636	166	38	134
Booth, Stephen C. (See Jones, Calvin M., assignor.)						
Boothroyd, Joseph. (See Walsh and Boothroyd.)						
Boozel, John A., and J. C. Mooney, Emlenton, Pa. Thill-coupling	365,782	July 5	15	5	40	6
Bopp, Christopher, Brooklyn, N. Y. Can-stopper	358,959	Mar. 8	802	203	38	1057
Borchardt, Albert, Hoboken, N. J. Cutting shirts	360,507	Apr. 5	161	40	39	31
Borchardt, Albert, Hoboken, N. J. Cloth-plaiting machine	361,125	Apr. 12	1052	{ 266 267 }	{ 39 39 }	{ 200 200 }
Bord, William, Green Island, and G. H. Ennis, Troy, N. Y. Dinner-pail	373,433	Nov. 22	1750	{ 463 464 }	{ 41 41 }	{ 823 823 }
Borden, William W. (See Harrod and Lamb, assignors.)						
Borel, François, Cortaillod, Switzerland, assignor to Société d'Exploitation des Câbles Électriques Système Berthoud, Borel & Cie. Electric cable	370,528	Sept. 27	1768	471	40	1388
Borer, Felix A. (See Friburk and Borer.)						
Borgersen, John, Chicago, Ill. Hinged cover for books and albums	375,044	Dec. 20	1275	333	41	1309
Borgfeldt, Nicholas H., New York, N. Y. Auxiliary propeller for vessels	367,499	Aug. 2	216	62	40	493
Bork, Friedrich A., Columbus, Ohio. Cuff or collar button	361,044	Apr. 12	939	237	39	178
Borland, Lewis, and T. J. Parsons, San Francisco, Cal. Grain-drier	361,126	Apr. 12	1054	267	39	200
Born, Henry, Cleveland, Ohio. Grate	364,209	June 7	18	5	39	1092
Born, Henry, Cleveland, Ohio. Oven-door	374,391	Dec. 6	312	83	41	1105
Borneman, August, Lancaster, Ohio. Composite pier for bridges	360,273	Mar. 29	2811	714	38	1457
Borst, Theodore L. (See Ganter and Borst.)						
Bortell, Samuel D., Philadelphia, assignor of one-half to W. B. Solliday, South Easton, Pa. Doubletree	374,139	Nov. 29	2778	747	41	1029
Borton, Job, assignor to W. H. Hobbs, Barnesville, Ohio. Fabric-turfing implement	370,309	Sept. 20	1428	383	40	1319
Borton, Stockton. (See Willcox and Borton.)						
Bortree, Lewis S., Toledo, Ohio. Bustle	369,979	Sept. 13	955	252	40	1222
Bosart, Jacob M., Sumner, Ill. Fence	373,638	Nov. 22	2065	551	41	882
Bosch, John A., Maryville, Mo. Car-coupling	367,586	Aug. 2	336	96	40	516
Boschert, Rufus E., Syracuse, N. Y. Rack for wine or cider presses	368,056	Aug. 9	1045	280	40	658
Boschert, Rufus E., Syracuse, N. Y. Screw-press	368,057	Aug. 9	1045	280	40	658
Boss, Robert P., Boston, Mass. Seat for compositors' stands	371,168	Oct. 11	621	159	41	130
Bossard, August, New York, N. Y. Projectile	361,920	Apr. 26	2197	570	39	432
Bosse, Robert, E. Freise, and F. Wolters, Brunswick, Germany. Hydraulic and other cement	375,599	Dec. 27	2033	528	41	1464
Bosson, Henry D., Verviers, Belgium, assignor to L. Clarenbach, Jr., Philadelphia, Pa. Fleece-dividing attachment for carding-machines	363,200	May 17	1605	421	39	789
Bostedo Cash and Package Carrier Company. (See Bostedo and Thomas, assignors.)						
Bostedo Cash and Package Carrier Company. (See Thomas, Horatio, assignor.)						
Bostedo, Louis G., Atlantic, Iowa. Cash and package carrier	372,592	Nov. 1	452	{ 121 122 }	{ 41 41 }	{ 555 555 }
Bostedo, Louis G., assignor to Bostedo Package and Cash Carrier Company, Atlantic, Iowa. Cash and package carrier	369,628	Sept. 6	439	{ 122 123 }	{ 40 40 }	{ 1118 1118 }
Bostedo, Louis G., Atlantic, Iowa, and H. Thomas, Chicago, Ill., assignors to Bostedo Cash and Package Carrier Company, Atlantic, Iowa. Cash and package carrier	367,951	Aug. 9	896	243	40	629
Bostedo Package and Cash Carrier Company. (See Bostedo, Louis G., assignor.)						
Boston Cash Indicator and Recorder Company. (See Webster, Jerome J., assignor.)						
Boston Clock Company. (See Craig, Abraham, assignor.)						
Boston Woven Hose Company. (See Cowen, Robert, assignor.)						
Boston Woven Hose Company. (See Hall, Luther, assignor.)						
Bostrom, August O., Washington, D. C. Hydraulic excavator	363,796	May 31	2454	{ 637 638 }	{ 39 39 }	{ 966 966 }

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Bostwick, Henry H., Auburn, N. Y. Grate for stoves, ranges, furnaces, &c.....	371,246	Oct. 11	726	186	41	151
Boswell, George G. F., assignor of two-fifths to J. E. Boswell, Indianapolis, Ind. Stalk-harvester.....	360,652	Apr. 5	369	93	39	70
Boswell, George G. F. and J. E., Indianapolis, Ind. Corn-harvester.....	361,483	Apr. 19	1558	404	39	306
Boswell, John H. (See Jackson, George, assignor.)						
Boswell, John I., near Chase City, Va. Combined cotton-seed planter and fertilizer-distributor.....	361,484	Apr. 19	1559	405	39	306
Boswell, Joseph E. (See Boswell, George G. F., assignor.)						
Boswell, Joseph E. (See Boswell, George G. F. and J. E.)						
Bosworth, Albert E. (See Carr and Yarwood, assignors.)						
Bosworth, Charles B., Everett, Mass., assignor to Electric Gas Lighting Company, Portland, Me. Electric gas-lighting apparatus.....	359,053	Mar. 8	928	237	38	1081
Bosworth, Charles B., Everett, Mass., assignor to Electric Gas Lighting Company, Portland, Me. Circuit-closer.....	374,036	Nov. 29	2627	705	41	1000
Bosworth, Charles B., Everett, Mass., assignor to Electric Gas Lighting Company, Portland, Me. Circuit-breaker.....	374,652	Dec. 13	691	182	41	1190
Bosworth, Charles B., Everett, Mass., assignor to Electric Gas Lighting Company, of Maine. Electric gas-lighting apparatus.....	375,118	Dec. 20	1385	360	41	1330
Bosworth, Charles F., Milford, Conn. Sewing-machine feeding mechanism.....	371,414	Oct. 11	961	249	41	195
Bosworth, Joab O. (See Case, Francis M., assignor.)						
Bosworth, Joab O., Denver, Colo. Apparatus for granulating lead.....	373,766	Nov. 22	2245	601	41	918
Both, Adolph C., Portland, Me. Letter-scale.....	371,920	Oct. 25	1699	440	41	361
Botsford, Frederick G., Erie, Pa., assignor of one-half to T. D. Van Devort, Dunkirk, N. Y. Universal flexible joint for pipes.....	374,447	Dec. 6	398	104	41	1121
Bott, Harry G., Thomasville, Pa. Pump.....	366,072	July 5	441	120	40	83
Böttiger, Paul, Lodz, Russia, assignor to Actiengesellschaft für Anilin Fabrikation, Berlin, Germany. Manufacture of new red dye-stuffs or coloring-matters.....	365,666	June 28	2149	.....	39	1519
Böttiger, Paul, Gössnitz, Saxe-Altenburg, assignor to Actiengesellschaft für Anilin Fabrikation, Berlin, Germany. Combination of the salts of tetrazo-diphenyl and the naphthylamines.....	365,667	June 28	2151	.....	39	1519
Bottomley, Isaac H. and T., Shelf, near Halifax, county of York, England. Dye-vat.....	361,921	Apr. 26	2198	{ 570 571 }	{ 39 39 }	433
Bottomley, Thomas. (See Bottomley, Isaac H. and T.)						
Bottomley, Thomas H., Capeo, Mich. Tire-tightener.....	358,253	Feb. 22	2185	576	38	851
Boucher, Amos, White House, Ohio. Drain-tile-laying machine.....	365,428	June 28	1786	{ 465 466 }	{ 39 39 }	1449
Boucher, Henry A., Philadelphia, Pa. Oil-cloth-printing machine.....	364,890	June 14	988	{ 260 261 }	{ 39 39 }	1280
Bouck, Charles A., New Carlisle, Ohio. Bicycle.....	356,095	Jan. 18	1155	306	38	237
Boudinot, Jeremiah, Springfield, Ill. Coffee-pot.....	367,780	Aug. 9	653	176	40	582
Boudreaux, Leandre, assignor of one-half to J. J. Gorman, Thibodeaux, La. Valve attachment for steam-cylinders.....	362,418	May 3	487	138	39	569
Boughton, Barton A., Pullman, assignor to H. R. Vandercook, Chicago, and H. H. Seymour, Pullman, Ill. Toy pistol.....	359,200	Mar. 8	1112	290	38	1116
Boughton, Claudius V., assignor to Buffalo Seal and Press Company, Buffalo, N. Y. Seal-lock.....	365,117	June 21	1336	{ 353 354 }	{ 39 39 }	1352
Boughton, Claudius V., assignor to Buffalo Seal and Press Company, Buffalo, N. Y. Seal-lock.....	372,653	Nov. 8	551	151	41	584
Boughton, George E., North Riley, Mich. Attachment for double harness.....	371,921	Oct. 25	1700	441	41	361
Boughton, John W., Philadelphia, Pa. Knockdown screen-door or window-frame.....	355,969	Jan. 11	973	255	38	197
Boughton, John W., Philadelphia, Pa., and J. M. Snidow, Big Stony Creek, Va. Device for sharpening saws.....	361,485	Apr. 19	1560	405	39	307
Boughton, William G., Frostburg, Md. Thill-coupling.....	358,535	Mar. 1	184	43	38	936
Boulanger, Emile, St. Louis, Mo. Tympanum.....	355,970	Jan. 11	974	255	38	197
Boulanger, Emile, St. Louis, Mo. Pitch-indicator for tympanums.....	355,971	Jan. 11	975	{ 255 256 }	{ 38 38 }	197
Boulanger, Emile, St. Louis, Mo. Drum.....	371,415	Oct. 11	963	249	41	196
Boulton, James B. D., Jersey City, N. J. Apparatus for forming steel ingots in a sectional mold.....	365,902	July 5	203	52	40	39
Boulton, Orin T., assignor of one-half to J. E. Hunter, Mechanicsburg, Ohio. Stock-rack for platform-scales.....	374,927	Dec. 20	1098	286	41	1278
Boulton, Samuel B., London, England. Preserving timber.....	360,947	Apr. 12	791	.....	39	152
Bouquet, Maxime, Brooklyn, N. Y. Cuff-button.....	366,644	July 19	1234	330	40	251
Bourbon Copper and Brass Works. (See Bardo and Ford, assignors.)						
Bourgeois, Maxime E. (See Calone and Danton, assignors.)						
Bourke, Martin, Youngstown, Ohio. Window-cleaner.....	355,298	Jan. 4	11	4	38	4
Bourke, Martin, Youngstown, Ohio. Brush or mop holder.....	374,171	Dec. 6	17	4	41	1049
Bourne, Henry H., Manhattan, Kans. Blasting earth.....	371,298	Oct. 11	797	204	41	164
Bourne, James N., Lowell, Mass., assignor to Kitson Machine Company. Machine for opening and preparing fiber.....	365,784	July 5	17	6, 7	40	6
Bousha, John. (See Bellaire and Bousha.)						
Boutcher, Edward, London, England. Furnace-grate.....	366,450	July 12	939	256	40	186
Boutell, Benjamin, Bay City, Mich. Boom.....	359,765	Mar. 22	1988	503	38	1299
Boutet, Henry, Ludlow, Ky. Railway scraper and leveler.....	371,416	Oct. 11	963	250	41	196
Bouton, Arthur A., Brooklyn, assignor to J. Kayser, New York, N. Y. Mitt and glove sewing device.....	367,356	Aug. 2	3	1, 2	40	451
Bouton, Arthur A., Brooklyn, assignor to J. Kayser, New York, N. Y. Feeding device for sewing-machines.....	367,357	Aug. 2	7	2	40	452
Bouton, Charles A. (See Posner, Morris N., assignor.)						
Bouton, Valentine, et al. (See Hamilton, Frederick R., assignor.)						
Bovard, John A. F. (See Farmer, Bovard, and Moon.)						
Bovee, Walter H., Williamsport, Pa. Car-coupling.....	368,184	Aug. 16	1226	328	40	700
Bovy, Victor, New York, N. Y. Breech-loading fire-arm.....	363,043	May 17	1394	368	39	747
Bowdish, Edward R. (See Bowdish, Nelson S. and E. R.)						
Bowdish, Nelson S. and E. R., Skaneateles, N. Y. Compressed seam for boats.....	356,096	Jan. 18	1157	306	38	238
Bowdish, Nelson S. and E. R., Skaneateles, N. Y. Boat.....	368,058	Aug. 9	1046	280	40	658
Bowditch, William E. (See Shattuck, Charles H., assignor.)						
Bowe, Isaac, assignor of one-half to G. A. Gindele, Chicago, Ill. Boiler-furnace.....	371,872	Oct. 18	1625	{ 419 320 }	{ 41 41 }	338
Bowe, Patrick, Jersey City, N. J. Battery-connection for electric conductors.....	368,321	Aug. 16	1429	379	40	739
Bowe, William H., Cincinnati, Ohio. Side-bar vehicle.....	360,200	Mar. 29	2700	682	38	1436
Bowell, Francis M., Rolling Prairie, Ind. Machine for extracting seeds from cucumbers.....	361,344	Apr. 19	1371	352	39	271
Bowen, David, deceased, Topeka, Kans.; M. Bowen, administratrix. Fence-post.....	359,589	Mar. 15	1723	438	38	1234
Bowen, Elijah, Bay View, Wis. Rolling-mill.....	361,858	Apr. 26	2114	548	39	417

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Bowen, Francis C., Brooklyn, N. Y. Hat-ventilator	357,364	Feb. 8	889	234	38	595
Bowen, George A., Medina, N. Y. Machine for making sand cores	365,724	June 28	2236	582	39	1535
Bowen, Mary, administratrix. (See Bowen, David.)						
Bowen, Menard K. (See Price, William G., assignor.)						
Bower, Charles F., Philadelphia, Pa. Boiler-tube cleaner	359,383	Mar. 15	1389	355	38	1173
Bower City Machine Company <i>et al.</i> (See Wallis, Harry E., assignor.)						
Bower, Elijah C., Milwaukee, Wis. Cell-case	362,711	May 10	913	249	39	651
Bowers, Albert M., Newark, N. J. Leather finishing or ironing machine	363,585	May 24	2150	557	39	903
Bowers, Albert M., Newark, N. J. Leather softening or staking machine	365,963	July 5	294	78	40	56
Bowers, Albert M., Newark, N. J. Leather-finishing machine	366,298	July 12	745	{ 202 203 }	{ 40 40 }	148
Bowers, Albert M., Newark, N. J. Steam-generator	367,181	July 26	1953	527	40	393
Bowers, Albert M., Newark, N. J. Leather-finishing machine	367,952	Aug. 9	899	{ 243 244 }	{ 40 40 }	630
Bowers, Alphonzo B., San Francisco, Cal. Dredging apparatus	364,158	May 31	2974	773	39	1065
Bowers, Alphonzo B., San Francisco, Cal. Dredging apparatus	364,571	June 7	520	140	39	1189
Bowers, Alphonzo B., San Francisco, Cal. Excavator	372,956	Nov. 8	1011	272	41	665
Bowers, Edward L. (See Grout and Bowers.)						
Bowers, Enoch, Trenton, N. J. Clutch	370,852	Oct. 4	149	40	41	30
Bowers, James, Newark, N. J. Bustle-spring	360,136	Mar. 29	2606	661	38	1418
Bowers, John W., Franklin, assignor to Douglas Axe Manufacturing Company, Boston, Mass. Die for forming axes, &c.	367,131	July 26	1890	512	40	381
Bowers, La Mont M., assignor to himself, A. Hatten, and L. A. Galpin, Binghamton, N. Y. Eaves-trough angle or miter	363,044	May 17	1395	368	39	747
Bowhall, Henry, Cedar Springs, Mich. Wrench	374,928	Dec. 20	1100	287	41	1278
Bowick, Edward M., Charleston, S. C. Machine for crushing ores	362,198	May 3	191	57	39	510
Bowker, Leo E., assignor to Ashuelot Can Company, Winchester, N. H. Bung	358,536	Mar. 1	184	43	38	936
Bowker, William, West Medford, and R. Williams, Boston, Mass. Loom	375,335	Dec. 27	1671	{ 439 440 }	{ 41 41 }	1396
Bowles, R. E., <i>et al.</i> (See Isbell, Arista H., assignor.)						
Bowling, Donald E., assignor of one-half to W. W. H. Harris, Lynchburg, Va. Car-coupling	375,438	Dec. 27	1809	474	41	1422
Bowling, Enoch C., assignor of one-half to H. P. Glover, Ypsilanti, Mich. Stay for garments	362,568	May 10	701	195	39	612
Bowling, Enoch C., assignor of one-half to H. P. Glover, Ypsilanti, Mich. Stay for garments	372,593	Nov. 1	455	122	41	556
Bowman, Charles A., <i>et al.</i> (See Parker and Gunning, assignors.)						
Bowman, Charles F., New Haven, Conn. Cutting-nippers	355,373	Jan. 4	107	29	38	23
Bowman, Ellsworth, Ankenytown, Ohio. Corn-planter	371,028	Oct. 4	427	107	41	85
Bowman, F. S. (See Zeller, Thomas B., assignor.)						
Bowman, Harry L. (See Bowman, Ira W. and H. L.)						
Bowman, Helen L. (See Lewis and Bowman.)						
Bowman, Ira W. and H. L., Elkton, Ohio. Hame-fastener	359,494	Mar. 15	1548	396	38	1203
Bowman, John. (See Steinle, William M., assignor.)						
Bowman, Selwyn Z., <i>et al.</i> (See Clough, William P., assignor.)						
Bowman, William M., Palo Pinto, assignor of one-half to W. J. Colbow and C. P. Lewis, Windsor, Mo. Device for opening and closing furnace-doors	361,394	Apr. 19	1442	373	39	284
Bowman, Winthrop H., Boston, Mass. Ventilation of pillows, &c.	367,953	Aug. 9	902	244	40	631
Bowne, Charles W., <i>et al.</i> (See Spalding, Orlando D., assignor.)						
Bowser, Augustus. (See Bowser, Sylvanus F. and A.)						
Bowser, Sarah F. (See Bowser, Sylvanus F. and A., assignors.)						
Bowser, Sylvanus F. and A.; said Sylvanus F. Bowser assignor, by mesne assignments, to S. F. Bowser, Fort Wayne, Ind. Storage and measuring tank for volatile liquids	372,250	Oct. 25	2197	563	41	453
Bowsher, Nelson P., South Bend, Ind. Grinding-mill	370,310	Sept. 20	1429	{ 383 384 }	{ 40 40 }	1319
Bowyer, John M., Erie, Pa., assignor of one-half to O. W. Lowry, Detroit, Mich. Distance-instrument	364,630	June 14	598	160	39	1208
Box, William W., Crayford, and F. J. Beadle, Erith, county of Kent, England; said Box assignor to said Beadle. Horseshoe	359,706	Mar. 22	1891	480	38	1283
Boyce, George R., Orange, N. J. Combination-lock	363,110	May 17	1484	392	39	764
Boyd, Edward K., Chicago, Ill. Watch-case	362,712	May 10	914	249	39	651
Boyd, James, St. Paul, Minn. Hoisting-machine	366,299	July 12	748	203	40	149
Boyd, James, and W. F. Goldenburg, Vevay, Ind. Gate	365,573	June 28	2014	{ 525 526 }	{ 39 39 }	1495
Boyd, James W., Aurora, Tex. Wire-tightener	361,745	Apr. 26	1938	503	39	385
Boyd, James W., and G. W. Hurlbutt, Chadron, Nebr., assignors to said Boyd and H. A. Lyon, Sioux City, Iowa. Cartridge implement	358,769	Mar. 1	507	124	38	997
Boyd, John. (See Turner, John, assignor.)						
Boyd, John, Glasgow, county of Lanark, Scotland. Stop-motion and winding mechanism for winding and twisting machines, &c.	359,839	Mar. 22	2098	531	38	1319
Boyd, John S., Baltimore, Md. Buckle	364,210	June 7	19	5	39	1092
Boyd, John S., Baltimore, Md. Buckle	368,274	Aug. 16	1367	360	40	726
Boyd, John S., Baltimore, Md. Bag	374,037	Nov. 29	2628	705	41	1000
Boyd, John W., assignor of one-half to M. C. Walden, Vevay, Ind. Churn	364,476	June 7	383	104	39	1160
Boyd, L. James M., Annapolis, Md. Boat lowering and hoisting device	374,929	Dec. 20	1102	287	41	1278
Boyd, William, Hartford, N. Y. Wire-stretching device	362,600	May 10	752	207	39	620
Boyden, George A., assignor of one-half to C. B. Mann, Baltimore, Md. Fluid-pressure car-brake	356,025	Jan. 11	1038	273	38	210
Boyden, George A., assignor of one-half to C. B. Mann, Baltimore, Md. Fluid-pressure car-brake	356,026	Jan. 11	1040	{ 273 274 }	{ 38 38 }	210
Boyden, George A., assignor of one-half to C. B. Mann, Baltimore, Md. Fluid-pressure car-brake	356,057	Jan. 11	1085	285	38	218
Boyden, George A., Baltimore, Md., assignor to Boyden Power Brake Company of Baltimore City, of Maryland. Car-brake	372,890	Nov. 8	919	{ 248 249 }	{ 41 41 }	649
Boyden, George A., Baltimore, Md., assignor to Boyden Power Brake Company of Baltimore City, of Maryland. Operating car-brakes	373,005	Nov. 8	1092	{ 291 292 }	{ 41 41 }	680
Boyden, John L., Cobham, Va. Tramway-switch adjuster	371,247	Oct. 11	728	186	41	151
Boyden Power Brake Company of Baltimore City. (See Boyden, George A., assignor.)						
Boyer, Joseph, St. Louis, Mo. Recording-velocimeter	356,916	Feb. 1	240	66, 67	38	466
Boyer Manufacturing Company. (See Burroughs, William S., assignor.)						
Boyer, Zaccur P., Philadelphia, Pa. Cable-railway construction	365,964	July 5	296	78	40	56
Boyer, Zaccur P., Philadelphia, Pa. Device for bending metal beams or bars	370,371	Sept. 27	1527	409	40	1345
Boyer, Zaccur P., assignor to United States Cable Motor Construction Company, Philadelphia, Pa. Conduit for traction-rope or endless-cable railways	359,421	Mar. 15	1441	368	38	1183
Boyle Daniel T., assignor of one-half to E. S. McDonald, Chicago, Ill. Automatic hose-reel	357,900	Feb. 15	1683	438	38	753

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Boyle, Homer L., Grand Rapids, assignor to himself and L. Chichester, Allegan, Mich. Thill-coupling	367,265	July 26	2085	563	40	418
Boyle, James E., Brooklyn, N. Y. Flushing apparatus for water-closets. (Reissue).....	10,826	Apr. 19	1823	{ 472 473	{ 39	357
Boyle, James E., Brooklyn, N. Y. Siphon water-closet	372,199	Oct. 25	2119	{ 544 545	{ 41	437
Boyle, Jeffrey C., Brooklyn, assignor to D. H. Craig, agent, New York, N. Y. Electric temperature-indicator	374,581	Dec. 13	599	156	41	1171
Boyle, John. (See Brass, Robert, assignor.)						
Boyle, John, Peabody, Mass. Leather-embossing machine.....	356,677	Jan. 25	1971	518	38	399
Boyle, John, Brooklyn, N. Y. Grommet	367,590	Aug. 2	341	97	40	517
Boyne, Thomas A. (See Dunn, George, assignor.)						
Boynton, Alfred, assignor of two-thirds to C. W. Boynton and H. W. Peace, Brooklyn, N. Y. Saw	373,717	Nov. 22	2174	581	41	905
Boynton Bicycle Railway Company. (See Boynton, Eben M., assignor.)						
Boynton, C. W., et al. (See Boynton, Alfred, assignor.)						
Boynton, Charles W., Brooklyn, N. Y. Saw-handle	356,820	Feb. 1	106	30	38	443
Boynton, Eben M., West Newbury, Mass. Pocket-knife.....	373,580	Nov. 22	1982	526	41	865
Boynton, Eben M., West Newbury, Mass. Saw	373,581	Nov. 22	1983	527	41	865
Boynton, Eben M., West Newbury, Mass., assignor to Boynton Bicycle Railway Company, New York, N. Y. Locomotive	359,008	Mar. 8	873	222	38	1069
Boynton, Edward S., New York, N. Y. Adjustable wrench	364,749	June 14	765	{ 203 204	{ 39	1240
Boynton Furnace Company. (See Boynton, Nathaniel A., assignor.)						
Boynton, Nathaniel A., assignor to Boynton Furnace Company, New York, N. Y. Hot-air furnace	356,980	Feb. 1	332	89	38	484
Boynton, Nelson C., Los Angeles, Cal. Animal-trap.....	355,857	Jan. 11	789	207	38	160
Brabson, Thomas, Newark, N. J. Chimes-frame.....	358,725	Mar. 1	452	110	38	988
Brabson, Thomas, Newark, N. J. Latch for refrigerators, &c.....	361,922	Apr. 26	2199	571	39	433
Brabson, Tom. (See Booth and Brabson.)						
Brace, Charles H., Cumberland, Md. Thill-coupling	368,451	Aug. 16	1618	432	40	776
Bracewell, W. E. (See Alexander, James G., assignor.)						
Bracey, William T. (See Gray, Walter G., assignor.)						
Bracher, George S., et al. (See Saxton, Augustus C., assignor.)						
Bracher, Thomas W., New York, N. Y. Sweat-band for hats	367,266	July 26	2086	563	40	418
Brackett, Marrick C., Holland, Mass., assignor to Standard Optical Company, (limited,) Geneva, N. Y. Eyeglass	363,201	May 17	1606	421	39	789
Bradbroke, Walter, Dysart, Iowa. Hoof trimmer.....	355,756	Jan. 11	637	166	38	134
Braddock, Edward I., Medford, Mass. Coating iron with tin or its alloys or other metals	371,248	Oct. 11	729	.....	41	151
Braddock, Warren L., Boston, Mass. Combined safety-pin and garment-supporter.....	361,121	Apr. 12	1046	264	39	200
Bradeen, Hiram C., McKeesport, Pa., assignor to National Tube Works Company, Boston, Mass. Manufacture of tubing	368,059	Aug. 9	1047	281	40	658
Braden, Isabella, et al. (See Braden, Tom, assignor.)						
Braden, Lincoln, Lawrence, Kans. Cultivator-axe	358,917	Mar. 8	750	186	38	1047
Braden, Tom, assignor to W. H. and I. Braden, Des Moines, Iowa. Hatchway-gate for elevators	361,204	Apr. 12	1183	299	39	224
Braden, William H., et al. (See Braden, Tom, assignor.)						
Bradford, Alden, Fall River, Mass. Rod-packing	362,355	May 3	391	108	39	550
Bradford, Benjamin W. (See Baldwin and Bradford.)						
Bradford, Charles K., Lynnfield, assignor to A. A. Griffing, Boston, Mass. Manufacture of boots or shoes	363,946	May 31	2670	693	39	1005
Bradford, Charles W., Thorndike, assignor of one-half to G. F. Terry, Unity, Me. Cutting apparatus for mowers.....	359,992	Mar. 29	2351	592	38	1372
Bradford, Frank H., and N. E. Kennedy, Providence, R. I. Case for violins.....	373,718	Nov. 22	2174	582	41	906
Bradford, Fred W. R., Claremont, N. H. Chafe and loop for harness	369,910	Sept. 13	839	222	40	1:02
Bradford, Gamaliel, Cambridge, assignor to Ames Sword Company, Chicopee, Mass. Padlock and chain	373,218	Nov. 15	1430	377	41	752
Bradford, Hezekiah, Philadelphia, Pa. Ore and rock crushing and pulverizing machine	359,495	Mar. 15	1549	396	38	1203
Bradford, Purmort, assignor to Sargent & Company, New Haven, Conn. Transom-lifter	368,452	Aug. 16	1619	432	40	777
Bradford, Thomas, Allegheny City, Pa. Air-moistener	365,785	July 5	19	7	40	6
Bradford, Thomas, Salford, county of Lancaster, England. Machine for ironing or calendaring linen or other fabrics	372,513	Nov. 1	331	91, 92	41	533
Bradford, Thomas C. (See Huewe, George A., assignor.)						
Bradford, Thomas C., Cincinnati, Ohio. Attachment for telephones.....	366,994	July 19	1694	455	40	336
Bradford, William, Brockport, N. Y. Potato-digger	365,574	June 28	2016	526	39	1495
Bradford, William, Brockport, N. Y. Hollow auger	374,773	Dec. 13	862	226	41	1225
Bradford, William L., Portland, Me. Trestle-tree.....	357,548	Feb. 8	1165	306	38	648
Bradish, Avery J., Pullman, Ill. Policeman's club	365,904	July 5	207	53	40	40
Bradley, Alfred B. (See Haley, Eugene H., assignor.)						
Bradley, Byron C., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Combined lister and seeder.....	360,793	Apr. 5	555	{ 144 145	{ 39	104
Bradley, Charles J., Westfield, Mass. Machine for laying button-molds on whips	375,473	Dec. 27	1856	485	41	1431
Bradley, Charles T., et al. (See Shaw, Elijah, assignor.)						
Bradley, Christopher C. (See Clinton, Charles M., assignor.)						
Bradley, Christopher C. (See Deering, Michael, assignor.)						
Bradley, Christopher C., Syracuse, N. Y. Vehicle-axle.....	368,992	Aug. 30	2385	634	40	941
Bradley, Christopher C., Syracuse, N. Y. Axle-nut	372,957	Nov. 8	1013	272	41	666
Bradley, Christopher C., Syracuse, N. Y. Shackle for vehicle-springs.....	375,529	Dec. 27	1925	504	41	1445
Bradley, E. T., et al. (See Donahue, James H., assignor.)						
Bradley, Edward H., Layton Station, Pa. Coke-oven front	369,094	Aug. 30	2534	672	40	968
Bradley, Edwin C. (See Freeland, James R., assignor.)						
Bradley, Everal, Trumansburg, N. Y. Snap-hook	364,572	June 7	521	141	39	1186
Bradley, Frank B. (See Parrish, James F., assignor.)						
Bradley & Hubbard Manufacturing Company. (See Comstock and Buxton, assignors.)						
Bradley & Hubbard Manufacturing Company. (See Evarts, Charles A., assignor.)						
Bradley & Hubbard Manufacturing Company. (See Evarts, John A., assignor.)						
Bradley & Hubbard Manufacturing Company. (See Evarts and Fisher, assignors.)						
Bradley & Hubbard Manufacturing Company. (See Fisher, Edwin, assignor.)						
Bradley & Hubbard Manufacturing Company. (See Penfield, William A., assignor.)						
Bradley & Hubbard Manufacturing Company. (See Seidensticker, F. Robert, assignor.)						
Bradley, James R. (See Rosenberg and Bradley.)						
Bradley, John W., Bradford, county of York, England. Circular combing machine.....	357,171	Feb. 8	639	166	38	548
Bradley, Lucien, Chicago, Ill. Hand fire-extinguisher.....	362,485	May 10	589	166	39	592

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Bradley Manufacturing Company, David. (See Bradley, Byron C., assignor.)						
Bradley Manufacturing Company, David. (See Packer, John F., assignor.)						
Bradley Manufacturing Company, David. (See Packer and Gaede, assignors.)						
Bradley, Robert, Jr., assignor to R. Bradley & Sons, Providence, R. I. Spectacle-temple.	373,006	Nov. 8	1094	292	41	680
Bradley & Sons, Robert. (See Bradley, Robert, Jr., assignor.)						
Bradley, Stephen, Reinbeck, Iowa. Device for loading or unloading animals	370,760	Oct. 4	9	3	41	5
Bradley, Voorhees & Day Manufacturing Company. (See Day, Lyman H., assignor.)						
Bradley, William E., Roscoe, N. Y. Floor-jack	364,794	June 14	854	224	39	1254
Bradley, William W., and J. R. Holroyd, Washington, D. C. Electric firing mechanism for guns and shells	372,958	Nov. 8	1014	273	41	666
Bradsby, William B., Greenville, Ill. Baling-press	362,713	May 10	915	{ 249 250 }	{ 39 }	651
Bradsby, William B., and E. W. Hagee, Greenville, Ill. Alarm-lock	370,677	Sept. 27	1988	{ 528 529 }	{ 40 }	1430
Bradsby, William B., and E. W. Hagee, Greenville, Ill. Automatic railway-station indicator	373,961	Nov. 29	2522	{ 678 679 }	{ 41 }	978
Bradshaw, Edward D. (See Broemser and Bradshaw.)						
Bradshaw, John A., and M. Lapoint, Lowell, Mass., assignors of one-third to F. C. Fletcher, New York, N. Y. Machine for making cartridge-shells	370,761	Oct. 4	11	3, 4	41	5
Bradshaw, Silas S., assignor to J. W. Garvy, Chicago, Ill. Window	362,714	May 10	919	251	39	652
Bradshaw, Silas S., assignor to J. W. Garvy, Chicago, Ill. Window	362,715	May 10	921	251	39	652
Bradt, Charles E., et al. (See Stevens, Sidney M., assignor.)						
Bradt, Emenzo, Johnstown, N. Y. Rasping-tool	372,594	Nov. 1	456	122	41	556
Bradt, Samuel E., et al. (See Stevens, Sidney M., assignor.)						
Brady, Bernard B., and A. B. McCanna, Chicago, Ill. Car-starter	358,642	Mar. 1	329	79	38	964
Brady, George K. (See O'Connor, Stephen, assignor.)						
Brady, Gilbert A., Chicago, Ill. Attachment-holder for sewing-machines	358,011	Feb. 22	1839	486	38	787
Brady, James N., et al. (See Adams, Henry P., assignor.)						
Brady, John, Philadelphia, Pa. Sash-fastener	370,235	Sept. 20	1330	355	40	1300
Brady, Nicholas R., New York, N. Y. Valve-gear	359,766	Mar. 22	1989	{ 503 504 }	{ 38 }	1299
Brady, Thomas A., Philadelphia, Pa. Loom for weaving looped or terry fabrics	358,376	Feb. 22	2351	625	38	883
Brady, Thomas H., New Britain, Conn. Electric-lamp frame	359,916	Mar. 22	2225	560	38	1342
Braffett, James L., New Paris, Ohio. Fence-wire tension device	360,083	Mar. 29	2510	638	38	1402
Braffett, James L., New Paris, Ohio. Device for twisting fence-wires	360,084	Mar. 29	2511	639	38	1402
Bragaw, John A., Albany, N. Y., assignor of one-half to A. E. Stanton, Montrose, Pa. Signal-lantern	361,808	Apr. 26	2033	528	39	401
Bragdon, David S., Durham, assignor of one-fourth to Z. K. Harmon, Portland, Me. Combined necktie and shirt-bosom	364,891	June 14	992	261	39	1281
Brager, Guul O., Osage, Iowa. Combined sewing-machine cover and stool	358,643	Mar. 1	331	80	38	965
Bragg, Frederick S., assignor of one-half to A. Lathrop, Corning, N. Y. Spark-arrester	365,234	June 21	1489	392	39	1382
Bragg, Frederick S., assignor of one-half to A. Lathrop, Corning, N. Y. Cinder-escape and draft-regulator	365,235	June 21	1491	392	39	1383
Bragg, Henry W. (See Galbraith, Edward A., assignor.)						
Brahadi, Abraham, Montreal, Quebec, Canada. Hat	372,514	Nov. 1	332	92	41	533
Braham, Lewis, and H. L. K. Jackson, Titusville, Pa. Animal-releasing device	373,434	Nov. 22	1751	464	41	823
Braillard, François F., et al., executors. (See Armbruster, Frederick.)						
Brainard, Amos H., Hyde Park, Mass. Milling-machine	367,954	Aug. 9	904	{ 244 245 }	{ 40 }	631
Brainard, Edwin S., Boston, Mass. Manufacture of shoe-calk stock	372,398	Nov. 1	169	48	41	501
Brainard, Ellison L., and A. W. Barton, assignors to Barton Bell Company, East Hampton, Conn. Sleigh or harness bell	371,249	Oct. 11	730	186	41	151
Brainard, Fred R., Annapolis, Md. Electric push-button	355,858	Jan. 11	790	207	38	160
Brainard, Joseph W., and A. D. Swan, Kent, assignors, by mesne assignments, to Electric Blind Slat Company, Ravenna, Ohio. Window-blind	367,358	Aug. 2	10	3	40	453
Brainard, Morris F., Brooklyn, N. Y. Pump-excavator	363,202	May 17	1608	422	39	790
Brambach, Stephan, New York, N. Y. Upright-piano action	363,947	May 31	2671	693	39	1005
Bramm, Henry, Jersey City, N. J. Machine-belt fastener	374,582	Dec. 13	600	156	41	1172
Branch, Robert H., Martinsville, Ind. Dumping-wagon	356,269	Jan. 18	1382	366	38	280
Brand, John S., assignor to Brand Manufacturing Company, New Britain, Conn. Octave-coupler	373,122	Nov. 15	1269	336	41	723
Brand Manufacturing Company. (See Brand, John S., assignor.)						
Brand Manufacturing Company. (See Wood, Lucius A., assignor.)						
Brandenburg, Fowler A., Vandalia, Ohio. Carriage-curtain	357,265	Feb. 8	766	199	38	571
Brandes, Henry H., assignor of one-half to A. P. Floyd, Corydon, Ky. Hame-fastener	359,422	Mar. 15	1443	368	38	1184
Brandner, Adolphus G., Springfield, Ohio. Grave-monument	361,259	Apr. 19	1258	321	39	250
Brandon, Alexander, New York, N. Y. Car-strap	360,137	Mar. 29	2607	661	38	1419
Brandon, C. Webster. (See Apple and Brandon.)						
Brandon, William. (See Johnson and Brandon.)						
Brandt, Frederick, New York, N. Y. Alarm attachment for overflow-basins	357,307	Feb. 8	824	214	38	583
Brandt, Frederick, New York, N. Y. Wash-tub	360,991	Apr. 12	863	219	39	164
Brandt, James. (See Hansen and Brandt.)						
Brandt, Joseph H., Norristown, Pa. Tablet	361,122	Apr. 12	1048	265	39	200
Branford Lock Works. (See Donahue, Thomas, assignor.)						
Brankston, Ralph T., assignor to W. G. Armstrong, Mitchell & Co., (limited,) Newcastle-upon-Tyne, England. Mounting for quick-firing guns	371,543	Oct. 18	1141	297	41	241
Brann, Oscar B., Portland, Me. Automatic steam-pressure and heat regulator	363,275	May 17	1700	445	39	808
Brannan, John, and W. E. Stone, Denver, Colo. Electric forceps	371,664	Oct. 18	1307	339	41	274
Brantigan, Elias, Indianapolis, Ind. Fire-escape	358,427	Mar. 1	6	2	38	904
Brasch, Henry, Chicago, Ill. Soldering-tool	365,293	June 21	1582	412	39	1398
Brashears Parlor and Sleeping Car Company. (See Brashears, William J., assignor.)						
Brashears, William J., St. Denis, assignor to Brashears Parlor and Sleeping Car Company, Baltimore, Md. Combined parlor and sleeping car	364,750	June 14	766	{ 204 205 }	{ 39 }	1240
Brass, Robert, Brooklyn, N. Y. Curtain-pole bracket	374,340	Dec. 6	246	65	41	1093
Brass, Robert, assignor to J. Boyle, Brooklyn, N. Y. Grommet	370,924	Oct. 4	280	69	41	56
Bratton, William V., et al. (See Billingslea, Asa A., assignor.)						
Branch, Fred J., Belleville, Ill. Putty-knife	364,159	May 31	2977	773	39	1066
Branchler, Henry, Greensburg, Pa. Machine for cutting and bending link-blanks	357,172	Feb. 8	641	167	38	548
Braun, Anton, Jersey City, N. J. Vehicle-axle and box	364,333	June 7	170	47	39	1121
Braun, Jacob, Bismarck, Ohio. Hay or hog rack	362,356	May 3	393	{ 108 109 }	{ 39 }	551
Braun, Martin, Cape Vincent, N. Y. Aerial ship	356,743	Feb. 1	5	2, 3	38	424
Braun, Max, Newark, N. J. Xylo-metallipphone piano	367,955	Aug. 9	906	245	40	631

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Braunfeld, Henry E., Philadelphia, Pa. Wash-stand.....	374,822	Dec. 13	935	243	41	1238
Brauthoffer, Samuel, <i>et al.</i> (See Ferguson, George J., assignor.)						
Brawn, Rufus E., Newburyport, Mass., assignor to N. Wilson, Washington, D. C., and B. A. Osgood, Wakefield, Mass. Spring-motor cash-carrier.....	365,459	June 28	1835	477	39	1458
Brawn, Rufus E., Newburyport, Mass., assignor to N. Wilson, Washington, D. C., and B. A. Osgood, Wakefield, Mass. Cash-carrier track.....	365,668	June 28	2151	561	39	1519
Bray, Mellen. (See Pope, Everett M., assignor.)						
Bray, Mellen, Newton, Mass. Trunk.....	358,012	Feb. 22	1840	487	38	787
Bray, Morris P., Worcester, Mass. Corset.....	374,392	Dec. 6	313	83	41	1106
Bray, Morris P., assignor of one-half to D. H. Fanning, Worcester, Mass. Elastic gore for corsets.....	362,419	May 3	488	138	39	569
Bray, William C., Newton, Mass. Machine for setting lacing studs or hooks.....	356,302	Jan. 18	1439	378	38	291
Brayton, Louise C. (See Monteverde, Florencio E., assignor.)						
Brayton, Richard. (See Howard and Brayton.)						
Brazel, Peter B., Cheboygan, Mich. Snow-plow.....	367,694	Aug. 2	508	140	40	546
Brazelle, Benjamin, St. Louis, Mo. Apparatus for manufacturing gas.....	365,294	June 21	1583	412	39	1398
Brecht, Gustavus V., St. Louis, Mo. Block or chunk pin.....	372,595	Nov. 1	457	122	41	556
Breck, Charles H., Newton, Mass. Sifter.....	371,544	Oct. 18	1142	297	41	241
Breckenridge, John G., Springfield, Ohio. Ironing-board.....	356,568	Jan. 25	1822	476	38	370
Bredow, Frank, Davenport, Iowa. Protector for lamp-globes.....	356,270	Jan. 18	1383	366	38	281
Brehmer, August, Leipsic, Germany. Paper-box machine.....	366,146	July 5	538	145	40	101
Brehmer, George E., Syracuse, N. Y. Lamp-shade.....	373,219	Nov. 15	1431	377	41	752
Breed, Dwight B., <i>et al.</i> (See Wright, William H., assignor.)						
Breen, Thomas, Knowlton, Pa. Cable-railway car.....	364,393	June 7	252	71, 72	39	1137
Breidenbach, William. (See Haines and Breidenbach.)						
Bremaker, Charles, Louisville, Ky. Paper-pulp digester.....	373,810	Nov. 29	2313	620	41	939
Bremer, Godfrey J. (See Sleight and Bremer.)						
Brendon, Ward, Garnerville, N. Y. Car-coupling.....	357,266	Feb. 8	767	199	38	572
Brenerman, James, <i>et al.</i> (See Van Horne and Fisher, assignors.)						
Brennan, Daniel, Jr., Salterville, N. J. Stone and ore crusher.....	357,568	Feb. 15	1209	319	38	666
Brennan, George J., Troy, N. Y. Brush-locker.....	369,911	Sept. 13	839	222	40	1202
Brennan, James J., Morris Plains, N. J. Cuspidor.....	363,982	May 31	2734	708	39	1018
Brennen, Edwin W. (See Huestis, Benjamin N., assignor.)						
Brenner, Charles, Sr. (See Brenner, George, assignor.)						
Brenner, George, assignor of one-half to C. Brenner, Sr., Cleveland, Ohio. Drum for turning-lathes.....	357,453	Feb. 8	1019	270	38	620
Brenner, Joseph. (See Harley and Brenner.)						
Brennicke & Co., Paul. (See Noll, Otto, assignor.)						
Brenowitz, Abraham, New York, N. Y. Safety-pocket for garments.....	363,586	May 24	2151	557	39	903
Brentini, Peter, London, England. Washing compound.....	360,948	Apr. 12	792		39	153
Brereton, David, assignor to W. H. Shelmerdine, Philadelphia, Pa. Stone-cutting machine.....	370,119	Sept. 20	1172	{ 310 311 }	{ 40 40 }	1269
Bressler, George N., <i>et al.</i> (See Quigley, Hugh L., assignor.)						
Bretherton, Martin, Washington, D. C., assignor of one-half to C. Cresson, Philadelphia, Pa. Miter-box.....	359,663	Mar. 22	1827	464	38	1271
Brett, Thomas, Cleveland, Ohio. String-instrument.....	363,720	May 24	2350	610	39	941
Bretzfeld, Samuel, New York, N. Y. Apparel-belt.....	362,601	May 10	753	208	39	620
Breueggemann, John B. (See Witmer, Joseph C., assignor.)						
Breul, Richard A., Bridgeport, Conn. Wire chain.....	359,054	Mar. 8	930	237	38	1081
Breul, Richard A., Bridgeport, Conn. Machine for making sheet-metal chains.....	368,275	Aug. 16	1368	{ 360 361 362 }	{ 40 40 40 }	727
Breul, Richard A., assignor to Bridgeport Chain Company, Bridgeport, Conn. Link for connecting chains.....	375,045	Dec. 20	1276	333	41	1309
Brevoort, Henry L. (See Dawson, Edward, assignor.)						
Brewer, Adolph F., San Francisco, Cal. Supplemental bed-plate, centering device, and work-holder for drilling or slotting machines.....	355,679	Jan. 11	526	138	38	112
Brewer, Charles. (See Green and Brewer.)						
Brewer, Gilbert T., Hoboken, N. J. Vent-plug for beer-kegs.....	359,840	Mar. 22	2101	531	38	1320
Brewer, Gilbert T., Hoboken, N. J. Hot-water attachment for stoves.....	360,411	Apr. 5	12	4	39	5
Brewer, Horatio J., New York, N. Y. Galvanic battery.....	359,055	Mar. 8	930	237	38	1081
Brewer, Horatio J., New York, N. Y. Galvanic battery.....	367,359	Aug. 2	11	3	40	453
Brewer, Horatio J., New York, N. Y. Binding-clamp for battery-electrodes.....	367,956	Aug. 9	908	246	40	632
Brewer, Horatio J., New York, N. Y. Galvanic battery.....	369,769	Sept. 13	623	168	40	1161
Brewer, Horatio J., New York, N. Y. Galvanic battery.....	373,435	Nov. 22	1752	464	41	823
Brewer, James P. (See Smith, William C., assignor.)						
Brewer, Michael S., St. James, Mo. Force-pump.....	363,721	May 24	2352	610	39	941
Brewington, Henry S., Baltimore, Md. Strap for securing packages.....	366,555	July 12	1089	294	40	216
Brewington, Henry S., Baltimore, Md. Flour or meal sifter.....	367,022	July 26	1731	466	40	352
Brewis, John J., Minneapolis, Minn. Lache.....	356,678	Jan. 25	1972	518	38	399
Brewster, James B., <i>et al.</i> (See White, William, assignor.)						
Brewster, James R., and O. E. Williams, Windsor, Vt. Miter-box.....	369,770	Sept. 13	624	169	40	1161
Brewster, Lyman D., <i>et al.</i> (See Sanford, Charles H., assignor.)						
Brewster, William F., East Orange, N. J. High-temperature thermometer.....	365,905	July 5	208	53	40	40
Brewster, William F., East Orange, N. J. Recording-thermometer.....	373,719	Nov. 22	2176	582	41	906
Breymann, George H. (See Thacher and Breymann.)						
Brice, Arthur T., <i>et al.</i> (See Evans, W. Warrington, assignor.)						
Brice, George A., Titusville, Pa. Tongue-support.....	374,583	Dec. 13	601	156	41	1172
Brice, John, Sandy Hill, N. Y. Bench-plane.....	357,454	Feb. 8	1020	270	38	620
Brickenstein, Laurence C., and C. A. Babendreier, Baltimore, Md. Device for decanting liquids.....	360,557	Apr. 5	243	61	39	47
Brickley, Elmer E., Anita, Iowa. Spring-gun.....	370,601	Sept. 27	1879	498	40	1408
Bridewell, Richard F., San Francisco, Cal. Cable propulsion for railways.....	367,086	July 26	1827	{ 492 493 }	{ 40 40 }	370
Bridge, Ephraim. (See Laraway and Bridge.)						
Bridge, Ephraim, Hazardville, Conn. Barrel-cover.....	355,374	Jan. 4	107	29	38	23
Bridgeford, William L., Louisville, Ky. Adjustable blower for stoves.....	361,809	Apr. 26	2033	528	39	402
Bridgeport Brass Company. (See Daniels, William N., assignor.)						
Bridgeport Brass Company. (See Reed, Thomas S., assignor.)						
Bridgeport Brass Company. (See Rhind, Frank, assignor.)						
Bridgeport Brass Company. (See Stoddard, Samuel G., assignor.)						
Bridgeport Chain Company. (See Breul, Richard A., assignor.)						
Bridgeport Spring Perch Company. (See Courter, William W., assignor.)						
Bridges, James T., Hancock, Md. Fork, rake, &c.....	366,371	July 12	849	228	40	167

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Bridgess, Appleton S. (See Eccles, William E., assignor.)						
Bridgham, Frederic C. (See Nutter, Walter B., assignor.)						
Bridgman, David B. (See Farner, Frank J., assignor.)						
Briegel, Fred. G. (See Lewis and Briegel.)						
Brigel, Leo A., Cincinnati, Ohio. Water-elevator	355,582	Jan. 4	372	100	38	75
Brigg, Charles, Bradford, county of York, England. Tube-washer for spinning-machines, &c.	361,859	Apr. 26	2116	548	39	417
Brigg, Charles W., Bristol, Va., assignor to W. W. Brigg and M. B. Hillyard, New Orleans, La. Cotton-gin brush	369,041	Aug. 30	2452	650	40	954
Brigg, William W., et al. (See Brigg, Charles W., assignor.)						
Briggs, Charles E. (See Chandler and Briggs.)						
Briggs, D. W. (See Podgorski, Casimir M., assignor.)						
Briggs, Edwin F., Brooklyn, N. Y., assignor of one-half to B. Albertson, Asbury Park, N. J. Globe or other valve	372,200	Oct. 25	2122	545	41	438
Briggs, Ephraim, Seneca, Kans. Whiffletree-hook	357,569	Feb. 15	1210	319	38	666
Briggs, George C., et al. (See Thomas, Michael C., assignor.)						
Briggs, George H., assignor of one-half to C. H. Nelson, North Grafton, Mass. Counter-stiffener	357,901	Feb. 15	1685	439	38	753
Briggs, George N., Yount, assignor of one-half to J. Bachelder, Napa, Cal. Whiffletree-hook	368,322	Aug. 16	1430	379	40	739
Briggs, Herbert G. (See Hanson, Freeman, assignor.)						
Briggs, James E., Brooklyn, assignor of two-thirds to H. Hildburgh, New York, N. Y. Shutter for skylights	362,602	May 10	754	208	39	620
Briggs, James E., Brooklyn, assignor of two-thirds to H. Hildburgh, New York, N. Y. Skylight-shutter	373,549	Nov. 22	1939	513 514	41	858
Briggs, John A., Philadelphia, Pa. Mail-bag	375,311	Dec. 20	1640	430	41	1381
Briggs, John N., Coeymans, N. Y. Apparatus for planing cakes of ice	367,267	July 26	2087	564	40	418
Briggs, John N., Coeymans, N. Y. Ice and slush melting attachment	369,389	Sept. 6	111	33	40	1054
Briggs, John N., Coeymans, N. Y. Vertical chute	369,390	Sept. 6	112	33	40	1054
Briggs, Melburn S., Oxford, Nebr. Feeder for stoves	364,795	June 14	856	224	39	1255
Briggs, Samuel. (See Norton and Briggs.)						
Briggs, Stephen A., Attleborough, Mass. Locket	367,087	July 26	1829	493	40	370
Briggs, Warren R., Edgerton, Ohio. Wood-working machine	360,138	Mar. 29	2608	661	38	1419
Briggs, William F., Bristol, R. I. Gage	371,417	Oct. 11	964	250	41	196
Brigham, Lvscom, Orangeville Mills, Mich. Soft-ground horseshoe	370,040	Sept. 20	1055	279	40	1249
Brigham, Wilbur F., trustee (See Derick, Myron L., assignor.)						
Bright, J. Luther. (See Chace, John K., assignor.)						
Bright, James H., St. Louis, Mo. Tile for ceilings and floors of buildings	365,295	June 21	1585	412 413	39	1398
Bright, Joseph T., New Castle, Ky. Lint and dust excluder	364,394	June 7	255	72	39	1137
Bright-McNeal Rotary Engine Company. (See Bright, William H., assignor.)						
Bright Platinum Plating Company. (See Thoms, William A., assignor.)						
Bright, William H., assignor to Bright-McNeal Rotary Engine Company, McPherson, Kans. Rotary steam-engine	368,927	Aug. 30	2295	610	40	923
Brightmore, Samuel, Philadelphia, Pa. Machine for manufacturing nuts and washers	365,328	June 21	1634	426	39	1408
Brill, Addison, et al., receivers. (See Diss, Louis P., assignor.)						
Brill, George M., Philadelphia, Pa. Running-gear for railway-cars	357,811	Feb. 15	1563	407	38	730
Brill, George M., Philadelphia, Pa. Car frame and truck	365,669	June 28	2154	561 562	39	1520
Brill, George M., Philadelphia, Pa. Car-axle box	370,732	Sept. 27	2064	547 548	40	1444
Brill, George M. and J. A., Philadelphia, Pa. Motor-car	373,639	Nov. 22	2066	551	41	883
Brill, John A. (See Brill, George M. and J. A.)						
Brill, John A., Philadelphia, Pa. Draw-head for railway-cars	357,812	Feb. 15	1564	407 408	38	730
Brill, John A., Philadelphia, Pa. Gong or bell for street-railway cars	370,602	Sept. 27	1881	498 499	40	1409
Brill, John A., Philadelphia, Pa. Car-seat	370,603	Sept. 27	1882	499	40	1409
Brill, John A., Philadelphia, Pa. Bull's eye or signal for street-cars	372,959	Nov. 8	1016	273	41	666
Brill, John A., Philadelphia, Pa. Railway-car	373,640	Nov. 22	2068	552	41	883
Brin, Arthur. (See Brin, Léon Q. and A.)						
Brin, Arthur, Paris, France. Preserving milk	361,045	Apr. 12	941	238	39	178
Brin, Arthur, Paris, France, assignor to Continental Oxygen Company, (limited,) London, England. Making barium bioxide	359,423	Mar. 15	1443	.....	38	1184
Brin, Arthur, 59 Brompton Crescent, county of Middlesex, England, and L. Q. Brin, Paris, France. Ozone apparatus	361,923	Apr. 26	2200	571	39	433
Brin, Léon Q. (See Brin, Arthur and L. Q.)						
Brin, Léon Q. and A., Paris, France, assignors, by mesne assignments, to Continental Oxygen Company, (limited,) London, England. Apparatus for obtaining oxygen from air	359,424	Mar. 15	1444	369 370	38	1184
Brinell, Johan A., Fagersta by Vestanfors, Sweden. Mold for casting pipes	373,551	Nov. 22	1942	515	41	858
Bringezu, Frederik, New York, N. Y. Extension-table	362,603	May 10	755	208 209	39	621
Bringold, John H., Albany, N. Y. Revolving wire-brush wheel	367,591	Aug. 2	342	97, 98	40	517
Brink, David S. (See Conover and Brink.)						
Brink, John L., Dubuque, Iowa. Street-car heater	362,928	May 17	1226	326	39	715
Brink, John L., Dubuque, Iowa. Heating apparatus	368,185	Aug. 16	1227	328	40	700
Brink, Paul H., and J. B. Ayers, New York, N. Y. Bottle-cap	364,334	June 7	172	48	39	1121
Brinkerhoff, George F., Bucyrus, Ohio. Machine for wrapping strips for use in the manufacture of rugs, &c.	374,448	Dec. 6	399	104	41	1121
Brinkerhoff, John J. (See Hermann, Wilhelm, assignor.)						
Brinkerhoff, Warren M., Auburn, N. Y. Lace-fastener	363,276	May 17	1702	445	39	808
Brinkerhoff, Warren M., Auburn, N. Y. Picture hook or hanger	366,812	July 19	1459	390	40	292
Brinkerhoff, Warren M., Auburn, N. Y. Picture hook or hanger. (Reissue)	10,862	Aug. 30	2812	750	40	1026
Brinkerhoff, Warren M., Auburn, N. Y. Picture hook or hanger	371,665	Oct. 18	1308	339 340	41	274
Brinkley, James W. and M. F., Berthoud, Colo. Ditching-machine	361,670	Apr. 26	1841	477	39	368
Brinkley, Milton F. (See Brinkley, James W. and M. F.)						
Brinkmann, Augustus H. (See Buschmann, Victor H., assignor.)						
Brinkmann, Augustus H., Baltimore, Md. Bustle	358,726	Mar. 1	454	110	38	988
Brinkneeyer, Otto. (See Streif, Henry, assignor.)						
Brinkop, John H., Quincy, Ill. Decoy	364,573	June 7	522	141	39	1186
Brinnall, Thomas M., Maryville, Mo., assignor of one-half to A. H. Peirce, Chicago, Ill. Curtain-fixture	358,377	Feb. 22	2352	625	38	883
Brinton, Caleb, Chicago, Ill. Trousers-stretcher	360,412	Apr. 5	13	4	39	5

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Brinton, George, Harrisburg, Pa. Pantaloon-stretcher	361,260	Apr. 19	1259	322	39	250
Brion, Charles M., Worcester, Mass. Ash and garbage can	362,604	May 10	760	209	39	621
Brisben, William W., Cleveland, Ohio. Dresser for emery-wheels	368,062	Aug. 9	1052	281	40	659
Brisco, Charles N., Chicago, Ill. Time-lock	366,300	July 12	749	203	40	149
Briscoe, John, Custer City, Pa. Device for draining the cylinders of engines	359,767	Mar. 22	1992	504	38	1300
Brisley, William, and W. S. Finch, Toronto, Ontario, Canada. Composition for preserving wood	359,384	Mar. 15	1390	.....	38	1173
Bristol Brass and Clock Company. (See Taplin, Alvin, assignor.)						
Bristol Brass and Clock Company. (See Taplin, Alvin, assignor.) (Reissue.)						
Bristol, David N., Lansingburg, assignor of three-fourths to Wilbur, Krum & Wilbur, Troy, N. Y. Attaching bosoms to shirts	373,550	Nov. 22	1940	514	41	858
Bristol, Joseph M., Olean, N. Y. Post or pile driver	371,733	Oct. 18	1420	367	41	297
Brittin, Frederick W., assignor to Silver Plate Cutlery Company, Birmingham, Conn. Carving-fork	370,236	Sept. 20	1331	355	40	1300
Britton, Andrew L., Philadelphia, Pa. Ear-muff	359,425	Mar. 15	1447	370	38	1184
Britvich, Paul, Los Angeles, Cal. Arched bridge	371,029	Oct. 4	428	107	41	85
Broad, Charles H. (See Kelly and Broad.)						
Broadhurst, William, <i>et al.</i> (See Brown, Jacob, assignor.)						
Broady, Marion T., Bartle, Ind. Corn-planter	367,781	Aug. 9	654	176	40	583
Brobst, Daniel, Monroe, Mich. Composition for coating roofs, &c	360,949	Apr. 12	793	.....	39	153
Brock, Addie M., North Plainfield, N. J. Fence-rail	373,123	Nov. 15	1269	337	41	724
Brock, Alvan D., Washington, D. C. Steam-boiler	370,723	Sept. 27	2068	548	40	1444
Brock, Alvan D. and F. B., Washington, D. C. Steam-boiler	371,030	Oct. 4	429	108	41	85
Brock, Fenelon B. (See Brock, Alvan D. and F. B.)						
Brock, Fenelon B., Washington, D. C. Cigar-cutter	373,436	Nov. 22	1753	465	41	823
Brock, Fenelon B., Washington, D. C., assignor to C. H. Emerson, Burlington, Vt. Toboggan	367,268	July 26	2088	564	40	419
Brock, Fenelon B., Washington, D. C., assignor to C. A. Schieren, Brooklyn, N. Y. Driving-belt	370,237	Sept. 20	1332	{ 355 } { 356 }	{ 40 }	1300
Brock, Fenelon B., Washington, D. C., assignor to C. A. Schieren, Brooklyn, N. Y. Driving-belt	370,238	Sept. 20	1333	356	40	1300
Brock Flexible Fence Company. (See Brock, William E., assignor.)						
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Lasting-machine	371,816	Oct. 18	1537	397	41	320
Brock, Russell, Gladstone, Ohio. Planter and drill	374,653	Dec. 13	692	182	41	1190
Brock, William E., Plainfield, N. J. Veneering	368,567	Aug. 23	1780	474	40	816
Brock, William E., Plainfield, N. J., assignor to Brock Flexible Fence Company, of New York. Machinery for making wire couplings	364,985	June 14	1132	{ 295 } { 296 } { 297 }	{ 39 }	1306
Brock, William H., Brooklyn, N. Y. Chain wrench	366,451	July 12	941	257	40	187
Brock, William H., Brooklyn, N. Y. Chain wrench	375,119	Dec. 20	1388	361	41	1330
Brockett, Frederick G. (See Brockett, William E. and F. G.)						
Brockett, William E. and F. G., Park City, Utah Ter. Metallic packing	375,258	Dec. 20	1568	411	41	1367
Brockway, Richard B. (See Thurber and Brockway.)						
Brodhag, Eduard, assignor to E. & H. T. Anthony & Company, New York, N. Y. Ornamental strip for picture-frames	367,592	Aug. 2	344	98	40	517
Broemser, George J., and E. D. Bradshaw, Little Rock, Ark. Barrel-cover	360,201	Mar. 29	2701	682	38	1436
Brogan, Anthony D., and A. M. Malloch, Firhill, Glasgow, county of Lanark, Scotland. Manufacturing checkered glass	370,176	Sept. 20	1257	334	40	1286
Brogan, Anthony D., and A. M. Malloch, Firhill, Glasgow, county of Lanark, Scotland. Apparatus for rolling glass	370,177	Sept. 20	1257	334	40	1286
Brogan, Anthony D., and A. M. Malloch, Firhill, Glasgow, county of Lanark, Scotland. Apparatus for rolling glass to produce designs thereon	370,178	Sept. 20	1258	334	40	1287
Brogard, Henry A., Philadelphia, Pa. Manufacture of cutlery, &c	368,060	Aug. 9	1050	281	40	659
Brogard, Henry A., Philadelphia, Pa. Manufacture of cutlery or similar articles	368,061	Aug. 9	1051	281	40	659
Broich, Joseph, and A. E. G. Luebke, Brooklyn, N. Y. Electric clock-winding attachment	355,434	Jan. 4	182	49	38	37
Brokate, Charles, assignor to W. Miller Range and Furnace Company, Cincinnati, Ohio. Latch-lifter for stove and range doors	367,360	Aug. 2	11	3	40	453
Brokaw, William B. (See Lawrence, William A., assignor.)						
Brokaw, William B., Newburg, N. Y. Shirt	361,486	Apr. 19	1562	405	39	307
Brolaski, Joseph B., St. Louis, Mo. Folding furniture	364,796	June 14	857	{ 224 } { 225 }	{ 39 }	1255
Brombacher, Emil, Buffalo, N. Y. Bell-cord coupling	370,239	Sept. 20	1333	356	40	1301
Brombacher's Sons, Jacob. (See Koenig, Nicolas, assignor.)						
Bromily, William I. (See Dobson and Bromily.)						
Bromley, Daniel, Carrollton, Ky. Baling-press	369,582	Sept. 6	369	102	40	1105
Bromley, Thomas, <i>et al.</i> (See Fyfe, Alexander, assignor.)						
Bromwell, Charles E., Helena, Ark. Car-starter	371,545	Oct. 18	1143	298	41	241
Bronson, Granville B., assignor to C. Rogers & Bros., Meriden, Conn. Drawer-pull	355,502	Jan. 4	269	71	38	54
Bronson, James M., Kansas City, Mo. Book-cover	366,918	July 19	1596	428	40	319
Bronson, William C., Saratoga Springs, N. Y. Boiler for steam-heaters	365,670	June 28	2157	562	39	1521
Brooder, John D., Kane, Pa. Packer for oil and gas wells	363,111	May 17	1485	392	39	764
Brookbank, James O., Driftwood, Pa. Fence-post	369,500	Sept. 6	250	70	40	1081
Brooke, Emily, Brooklyn, N. Y. Fitting garments	355,583	Jan. 4	373	100	38	75
Brooke, Homer, Jersey City, N. J. Glass-mold	364,211	June 7	20	5, 6	39	1092
Brooke, Homer, Jersey City, N. J., assignor of one-half to J. H. King, Brooklyn, N. Y. Bridge-brow for ferry-boats, &c	369,429	Sept. 6	164	48	40	1063
Brooke, Robert G. (See Holden, Brooke, and White.) (Reissue.)						
Brooklyn Railway Supply Company. (See Barrows, William H., assignor.)						
Brooklyn Railway Supply Company. (See Campbell, Neil, assignor.)						
Brooks, Charles H., Troup County, Ga. Revolving compost-distributer	368,186	Aug. 16	1228	329	40	700
Brooks & Company, E. J. (See Brooks, Edward J., assignor.)						
Brooks, David, Philadelphia, Pa. Insulating underground electric conductors	356,981	Feb. 1	334	89	38	484
Brooks, David, assignor of one-half to H. B. Tatham, Philadelphia, Pa. Insulating the terminals of sheathed electrical conductors	362,872	May 10	1140	306	39	692
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Seal for seal-locks	355,636	Jan. 4	461	124	38	91
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Seal-lock	364,892	June 14	992	261	39	1281
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Metallic seal	368,126	Aug. 9	1133	301	40	674
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal-press	371,873	Oct. 18	1628	420	41	339

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Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal	373,007	Nov. 8	1096	293	41	681
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal	373,008	Nov. 8	1097	293	41	681
Brooks, Franklin W., assignor to New York Lead Seal and Press Company, New York, N. Y. Lead seal	373,332	Nov. 15	1591	420	41	782
Brooks, George, Bloomington, Ill. Car-chain	357,570	Feb. 15	1211	319	38	666
Brooks, George H., assignor of one-half to L. T. Carlisle, West Point, Miss. Car-coupling	369,685	Sept. 13	519	144	40	1143
Brooks, Heman P., assignor of one-half to C. W. Kane, Brooklyn, N. Y. Bottle-stopper	362,245	May 3	254	72	39	522
Brooks, Henry O., Lowell, Mass. Odometer	365,043	June 21	1216	321	39	1332
Brooks, Henry W., Philadelphia, Pa. Apparatus for the manufacture of gas	358,378	Feb. 22	2353	{ 625 626 }	{ 38	883
Brooks, James W., trustee. (See Allen, Edward B., assignor.)						
Brooks, James W., trustee. (See Elliott, Alvin D., assignor.)						
Brooks, James W., trustee. (See Goddu, Louis, assignor.)						
Brooks, James W., trustee. (See Manley, William, assignor.)						
Brooks, James W., trustee. (See McMullett, James F., assignor.)						
Brooks, James W., et al., trustees. (See Murray, Henry F., assignor.)						
Brooks, John, Plainfield, N. J. Sheet-delivery apparatus	374,930	Dec. 20	1103	{ 287 288 }	{ 41	1279
Brooks, John C., assignor of two-fifths to R. Blackburn, Paterson, N. J. Shuttle-supplying mechanism for looms	371,299	Oct. 11	798	204	41	164
Brooks, Joseph W. (See Palmerton, Allen H., assignor.)						
Brooks, Karmell New York, N. Y. Folding bed	359,768	Mar. 22	1993	504	38	1300
Brooks, Karmell, New York, N. Y. Mattress	364,797	June 14	859	225	39	1255
Brooks, Karmell, New York, N. Y. Folding bed	367,615	Aug. 2	510	140	40	547
Brooks, Karmell, New York, N. Y. Folding bed	372,891	Nov. 8	924	249	41	650
Brooks, Lawson L., Knoxville, Tenn., assignor of one-half to J. A. Walkinshaw, Milton, W. Va. Corn-planter	361,924	Apr. 26	2201	571	39	433
Brooks, Luther F., Boston, Mass. Ear-ring	358,832	Mar. 8	611	151	38	1022
Brooks, Reuben, assignor to Russia Cement Company, Gloucester, Mass. Case for liquid glue, &c.	363,983	May 31	2735	708	39	1018
Brooks, Robert L., et al. (See Sanford, Marshal M., assignor.)						
Brooks, Samuel T., San Francisco, Cal. Sealing envelopes, packages, &c.	372,251	Oct. 25	2199	564	41	453
Brooks, Silas S., Windsor, Mo. Corn-planter	358,537	Mar. 1	185	43.44	38	936
Brooks, Stephen H., assignor to himself and J. C. Wyman, Brooklyn, N. Y. Cuff-holder	374,931	Dec. 20	1106	282	41	1279
Brooks, William B., Waterbury, Conn. Making frames for harness-buckles	369,430	Sept. 6	165	48	40	1063
Brooks, William D., assignor to himself and D. D. Mallory, Baltimore, Md. Can-soldering machine. (Reissue)	10,385	May 17	1805	{ 473 474 }	{ 39	828
Brooks, William F., and A. V. Abercrombie, Bridgeport, Conn., and S. W. Houghton, Springfield, Mass.; said Houghton assignor to said Brooks and Abercrombie. Cording attachment for sewing-machines	366,147	July 5	539	146	40	102
Brooks, William H., West Point, N. Y. Circulator and governor for pumps	367,088	July 26	1830	493	40	370
Broomell, Thomas W., Christiana, Pa. Pitman-box	355,435	Jan. 4	183	49	38	37
Brophy, Dennis P., Nokomis, Ill. Label-holder	358,644	Mar. 1	332	80	38	965
Brosch, Jacob, assignor of one-half to A. Aufrichtig, St. Louis, Mo. Fish-trap	373,333	Nov. 15	1593	420	41	782
Brose, Daniel, and J. Baumgartner, New Washington, Ohio. Tile-machine	360,653	Apr. 5	370	94	39	70
Brosious, Peter. (See Guyer and Brosious.)						
Brosius, John M., Atlanta, Ga. Vehicle-axle	362,486	May 10	589	166	39	592
Brosius, John M., Atlanta, Ga. Vehicle-axle	366,452	July 12	942	257	40	187
Brosius, John M., Atlanta, Ga. Railway-rail	367,500	Aug. 2	217	62	40	493
Brosnan, Cornelius J., Springfield, Mass., assignor of one-half to F. A. Smith, Jr., Providence, R. I. Heel or sole plate	372,451	Nov. 1	248	69	41	517
Brostrom, Charles A., Sioux City, Iowa. Tongueless wheel-cultivator	358,254	Feb. 22	2185	576	38	851
Brothers, John. (See Fjord and Brothers.)						
Brothers, Charles, New York, N. Y. Combined mirror and bedstead	356,303	Jan. 18	1441	379	38	291
Brothers, Luther. (See Sprague, James H., assignor.)						
Brough, Thomas R., Gananoque, Ontario, Canada. Center-board for vessels	367,593	Aug. 2	345	98	40	517
Brougher, David J., Harrisburg, Pa. Skinning-knife attachment	369,314	Sept. 6	14	4	40	1037
Broughton, Horace L., Marblehead, Mass. Adjustable wood-measuring rack	356,917	Feb. 1	244	67	38	466
Broughton, John S., Lee's Summit, Mo. Column-rest	362,716	May 10	923	251	39	653
Brouillard, A. Joseph, Bristol, Conn. Line-hitching device	365,965	July 5	297	79	40	56
Brouillet, Emile, assignor to Society Devries & Co., Paris, France. High-pressure signal	362,420	May 3	489	138	39	570
Browder, Thomas F., Greenfield, Ohio. Fire-escape	367,362	Aug. 2	14	4	40	453
Brower, Addison C., Plymouth, Mich. Book-rest	359,056	Mar. 8	932	238	38	1081
Brower, Joseph, Lexington, Ky. Reel-holder for fishing-rods	370,925	Oct. 4	281	69	41	56
Brower, Walter S., and E. Conklin, Albany, N. Y.; said Conklin assignor to said Brower. Mustache-guard	357,571	Feb. 15	1213	319	38	667
Brown, A. F. Allen. (See Campfield, Matthew E., assignor.)						
Brown, Alexander E., Cleveland, Ohio. Gripping implement	366,813	July 19	1461	390	40	292
Brown, Alexander E., Cleveland, Ohio. Measuring the weight of loads	368,063	Aug. 9	1053	282	40	659
Brown, Alexander E., Cleveland, Ohio. Automatic stock-indicator for furnaces	368,064	Aug. 9	1055	282	40	659
Brown, Alexander E., Cleveland, Ohio. Carriage for hoisting-machines	368,065	Aug. 9	1057	282	40	660
Brown, Alexander E., Cleveland, Ohio. Hoisting-bucket	368,453	Aug. 16	1620	433	40	777
Brown, Alexander E., Cleveland, Ohio. Bucket-truck	369,912	Sept. 13	840	223	40	1203
Brown, Alexander E., Cleveland, Ohio. Hoisting and conveying machine	369,913	Sept. 13	842	{ 223 224 }	{ 40	1203
Brown, Alexander E., Cleveland, Ohio. Hoisting and conveying machine	370,311	Sept. 20	1432	384	40	1320
Brown, Alexander E., Cleveland, Ohio. Hoisting and conveying machine	370,312	Sept. 20	1434	384	40	1320
Brown, Alexander E., Cleveland, Ohio. Skip-car	370,678	Sept. 27	1990	529	40	1430
Brown, Alexander E., Cleveland, Ohio. Automatic dump-bucket	370,679	Sept. 27	1991	530	40	1430
Brown, Alexander T., Syracuse, N. Y. Breech-loading fire-arm	367,089	July 26	1832	{ 493 494 }	{ 40	371
Brown, Alfred H., Freeport, Ill. Combined latch and lock	356,027	Jan. 11	1042	274	38	211
Brown, Alson L., et al. (See Larkin, John C., assignor.)						
Brown, Amos W., Lansingburg, N. Y. Blacking-brush	375,336	Dec. 27	1676	440	41	1396
Brown, Arthur H. (See Heunsch, Rudolph, assignor.)						
Brown, C. Cortland. (See Le Clair, George, assignor.)						
Brown, Calvin M., Newport, N. H. Carriage-spring	363,203	May 17	1609	422	39	790
Brown, Charles, et al. (See Eckerson, David L., assignor.)						
Brown, Charles A., Portland, Me. Battery-jar	373,334	Nov. 15	1594	421	41	782
Brown, Charles E. L., Zurich, assignor to Werkzeug und Maschinenfabrik Oerlikon, Oerlikon, near Zurich, Switzerland. Regulator for dynamo-electric machines	372,201	Oct. 25	2123	546	41	438

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Brown, Charles F., trustee. (See Coupal and Holland, assignors.)						
Brown, Charles F., trustee. (See Keith, Jeremiah, assignor.)						
Brown, Charles M., Rockford, Ill. Adjustable wrench	370,447	Sept. 27	1640	438	40	1365
Brown, Charles M., assignor to Knowlton Manufacturing Company, Rockford, Ill. Grind- ing-lathe	370,003	Sept. 13	991	{ 261 262 }	{ 40 40 }	1229
Brown, Charles R. (See Brown, Elisha S. and C. R.)						
Brown, Charles R. (See Burdick and Brown.)						
Brown, Charles S. (See Wood and Brown.)						
Brown, Charles W., Newton, Mass. Woven-wire mattress	357,697	Feb. 15	1395	367	38	699
Brown, Daniel H., Chicago, Ill. Combined milk and creaming can	366,148	July 5	541	146	40	102
Brown, Daniel J. (See Kerner and Brown.)						
Brown, David D., Brooklyn, N. Y. Device for handling cans and bottles	370,179	Sept. 20	1259	335	40	1287
Brown, David F., Washington, Pa. Bailer	373,266	Nov. 15	1489	393	41	763
Brown, David G., Philadelphia, Pa. Micrometer pipe-gage	368,563	Aug. 16	1775	471	40	806
Brown, David P., and J. W. Neeley, Franklin, Pa. Apparatus for distilling	361,671	Apr. 26	1842	477	39	369
Brown, David W., New York, N. Y. Reservoir or tank	370,372	Sept. 27	1528	410	40	1346
Brown, Dewalden L., assignor of one-half to W. D. Huntoon, Franklin, Mass. Car-starter.	373,437	Nov. 22	1754	465	41	824
Brown, E. S., receiver. (See Stanton, Fread, assignor.)						
Brown, Edmund D., assignor to Nichols, Shepard & Company, Battle Creek, Mich. Com- bined belt guide and reel	360,992	Apr. 12	863	219	39	164
Brown, Edward, Philadelphia, Pa. Open fire stove	362,717	May 10	924	252	39	653
Brown, Edward H., Bayonne, N. J., assignor to self and F. Shickle, St. Louis, Mo. Door- closer	366,453	July 12	943	257	40	188
Brown, Edwin F. (See Brown, Edwin L., assignor.)						
Brown, Edwin F., assignor of one-half to E. L. Brown, Chicago, Ill. Hitching-post	355,809	Jan. 11	713	186	38	148
Brown, Edwin F., assignor of one-half to E. L. Brown, Chicago, Ill. Horse-block	361,983	Apr. 26	2297	598	39	449
Brown, Edwin H., et al. (See Shaw, Charles H., assignor.)						
Brown, Edwin L. (See Brown, Edwin F., assignor.)						
Brown, Edwin L., assignor of one-half to E. F. Brown, Chicago, Ill. Street or other curb	355,810	Jan. 11	714	187	38	148
Brown, Edwin M. (See Wood and Brown.)						
Brown, Egbert T., Buffalo, N. Y. Head-rest	371,817	Oct. 18	1539	398	41	321
Brown, Elisha S. and C. R., Santa Rosa, Mo. Cultivator	358,013	Feb. 22	1840	487	38	788
Brown, Elizabeth. (See Brown, George H., assignor.)						
Brown, Emmet J. (See Nichols, George E., assignor.)						
Brown Endless Cutter Company. (See Brown, James O., assignor.)						
Brown, Ethan A., assignor of one-half to T. F. Quill, Indianapolis, Ind. Trace-holder	371,874	Oct. 18	1629	420	41	339
Brown, Eugene H., Bennington, Vt. Clutch and brake	367,090	July 26	1834	494	40	371
Brown, Eugene L., Putneyville, Pa. Horse-detacher	368,870	Aug. 23	2202	586	40	897
Brown, F. Barton, Boston, Mass. Suspender-connection	356,444	Jan. 25	1646	432	38	337
Brown Folding Machine Company. (See Brown, Richard T., assignor.)						
Brown, Francis C., assignor to M. Brown, New York, N. Y. Fountain-pen	374,140	Nov. 29	2779	747	41	1029
Brown, Frank E., Webster City, Iowa. Shutter-worker	375,439	Dec. 27	1811	474	41	1423
Brown, Frederic W., Albany, N. Y. Bicycle	355,375	Jan. 4	108	30	38	23
Brown, Frederick H., Chicago, Ill. Convertible machine for slotting or drilling	367,782	Aug. 9	656	{ 176 177 }	{ 40 40 }	583
Brown, George A., Grand Ledge, Mich. Vehicle-spring	366,814	July 19	1462	391	40	292
Brown, George E., Madison, Wis. Polishing-lap	369,431	Sept. 6	166	48	40	1063
Brown, George H., assignor to E. Brown, Petersburg, Va. Fruit-crate	375,530	Dec. 27	1926	505	41	1445
Brown, George W., assignor of one-half to R. W. Curtis, Bridgeport, Conn. Sash-fast- ener	368,646	Aug. 23	1881	502	40	835
Brown, Harry K. (See Henry and Brown.)						
Brown, Henry, assignor of two-thirds to D. D. Carothers and J. P. Johns, Columbus, Ohio. } Journal-bearing	363,204	May 17	1611	{ 422 423 }	{ 39 39 }	790
Brown, Henry C. (See Johnson and Brown.)						
Brown, Henry D., Somerville, assignor of one-half to S. W. Call, Boston, Mass. Thill- coupling	356,304	Jan. 18	1443	379	38	291
Brown, Henry L., Indianapolis, Ind. Air-pump	360,413	Apr. 5	15	4	39	5
Brown, Heston & Co. (See Brown, Robert P., assignor.)						
Brown, Iona E., Mount Holly, assignor to M. M. and E. A. Maguire, Rutland, Vt. Baking- tin	373,124	Nov. 15	1270	337	41	724
Brown, Irving H., New York, N. Y. Railway-signal	368,066	Aug. 9	1059	283	40	660
Brown, Isaac M., Columbus, Ind. Ruling-machine	370,041	Sept. 20	1056	280	40	1249
Brown, Jacob, assignor of one-half to F. E. Estcourt and W. Broadhurst, Manchester, county of Lancaster, England. Bag or satchel	359,201	Mar. 8	1113	290	38	1116
Brown, Jacob L., Rahway, N. J. Railway-car brake	357,455	Feb. 8	1021	271	38	620
Brown, Jacob S., assignor of one-half to W. E. and J. R. Miller, Carlisle, Pa. Well drill- ing and piping machine	367,783	Aug. 9	659	{ 177 178 179 }	{ 40 40 40 }	583
Brown, Jacob S., assignor of one-half to W. E. and J. R. Miller, Carlisle, Pa. Attach- ment for engines	367,784	Aug. 9	664	179	40	584
Brown, Jacob S., assignor of one-half to W. E. and J. R. Miller, Carlisle, Pa. Mechanical movement	367,888	Aug. 9	803	217	40	613
Brown, James C., San Francisco, Cal. Transom	363,984	May 31	2736	709	39	1018
Brown, James E., Xenia, Ohio. Machine for sawing out twisted stair-railings	368,993	Aug. 30	2385	634	40	941
Brown, James F., assignor of one-half to B. P. Richmond, Lansing, Mich. Governor for mu- sic-boxes	356,702	Jan. 25	2004	526	38	405
Brown, James L., Evansville, Ind. Base-bag	367,899	Aug. 9	806	217	40	613
Brown, James L., and J. Blake, Bedford, Iowa. Machine for weaving wire fences	359,592	Mar. 22	1735	441	38	1253
Brown, James O., assignor to Brown Endless Cutter Company, Boston, Mass. Cutting apparatus for mowers or harvesters	369,095	Aug. 30	2534	672	40	969
Brown, James O., assignor to Brown Endless Cutter Company, Boston, Mass. Cover for knives of mowing-machines or harvesters	369,096	Aug. 30	2536	{ 672 673 }	{ 40 40 }	969
Brown, James O., assignor of one-half to J. S. Newell, Boston, Mass. Tree-protector	375,693	Dec. 27	2175	566	41	1490
Brown, James W. (See West, William F., assignor.)						
Brown, Joab Q., Eagleville, Mo. Cloth-measuring device	372,202	Oct. 25	2125	546	41	438
Brown, John, Redfern, near Sydney, and T. Midelton, Darlington, near Sydney, New South Wales, assignors to J. W. Oakman, Brooklyn, N. Y. Bogie	356,347	Jan. 18	1506	396	38	303
Brown, John, Medford, and F. J. Johnston, Boston, assignors to J. W. Tufts, Medford, Mass. Machine for bottling aerated liquids	363,504	May 24	2034	529	39	880
Brown, John H., New York, N. Y. Fiber-digester	366,556	July 12	1090	295	40	216
Brown, John H., New York, N. Y. Disintegrating fibrous material	366,557	July 12	1091	295	40	216
Brown, John N., New London, Conn. Vehicle-gear	365,786	July 5	20	7	40	7
Brown, John P., assignor to M. E. Brown, Rising Sun, Ind. Fence-machine	360,401	Mar. 29	2987	{ 757 758 }	{ 38 38 }	1488

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Brown, John W., Polo, Ill. Spring-vehicle	357,173	Feb. 8	642	167	38	548
Brown, Joseph D., Jr., Camden, N. J. Metallic joint for felt and other roofing	362,246	May 3	255	72	39	523
Brown, Joseph F., and G. F. Edgington, Pleasant Corners, Ohio. Floor-clamp	371,169	Oct. 11	622	159	41	131
Brown, Joseph H., <i>et al.</i> (See McDill and Gaston, assignors.)						
Brown, Levi B., Aledo, Ill. Churn-dasher	370,724	Sept. 27	2070	549	40	1445
Brown, Levi S., Union City, Tenn. Horse-detacher	356,097	Jan. 18	1158	306	38	238
Brown, Lewis A. (See Ketchum, Volney S., assignor.)						
Brown, Lewis A. (See Knott, Samuel W., assignor.)						
Brown, Loam, Sr., Cookstown, Ga. Rotary engine	370,373	Sept. 27	1532	410	40	1346
Brown, Marie. (See Brown, Francis C., assignor.)						
Brown, Mary E. (See Brown, John P., assignor.)						
Brown, Maurice T., Tyler, Tex. Baling-press	356,445	Jan. 25	1647	432	38	337
Brown, Mill B., <i>et al.</i> (See Pollard, Isaac G., assignor.)						
Brown, Nathaniel, Emporia, Kans. Swing-bicycle	356,028	Jan. 11	1044	274	38	211
Brown, Nelson H., Syracuse, N. Y. Furnace for expanding locomotive-tires	355,859	Jan. 11	791	208	38	161
Brown, Owen D., Dayton, assignor to Hoover & Gamble, Miamisburg, Ohio. Pitman for mowing-machines	362,058	May 3	10	4	39	474
Brown, Perry, Louisville, Ky. Car-coupling	363,112	May 17	1486	393	39	764
Brown, Perry, Louisville, Ky. Car-coupling	366,712	July 19	1330	356	40	269
Brown, Perry, Louisville, Ky. Seal-lock	369,042	Aug. 30	2453	651	40	954
Brown, Perry, and D. E. Doherty, Louisville, Ky. Car-coupling	364,798	June 14	860	225	39	1255
Brown, Peter G., Schenectady, N. Y. Extension light-fixture	358,802	Mar. 1	556	139	38	1007
Brown, Richard T., Erie, Pa., assignor to Brown Folding Machine Company. Paper-folding machine	366,758	July 19	1392	372	40	280
Brown, Robert, Miamisburg, Ohio. Wheel. (Reissue)	10,851	July 19	1720	463	40	342
Brown, Robert G., Brooklyn, assignor to Standard Multiplex Telegraph Company, New York, N. Y. Telegraphy	355,860	Jan. 11	793	208	38	161
Brown, Robert G., Brooklyn, assignor to Standard Multiplex Telegraph Company, New York, N. Y. Telegraphy	358,379	Feb. 22	2355	{ 626 627 }	{ 38 38 }	{ 884 884 }
Brown, Robert G., Brooklyn, assignor to Standard Multiplex Telegraph Company, New York, N. Y. Synchronous telegraphy	364,893	June 14	994	{ 261 262 }	{ 39 39 }	{ 1281 1281 }
Brown, Robert G., Brooklyn, assignor to Standard Multiplex Telegraph Company, New York, N. Y. Synchronous telegraphy	364,894	June 14	998	262	39	1282
Brown, Robert J., Brooklyn, N. Y. Car-brake	363,722	May 24	2354	611	39	941
Brown, Robert P., assignor to Brown, Heston & Co., Philadelphia, Pa. Paper box	374,886	Dec. 13	1023	267	41	1255
Brown, Royal F., Chicago, Ill. Radiator	374,518	Dec. 6	497	{ 129 130 }	{ 41 41 }	{ 1142 1142 }
Brown, Sabin F., assignor of one-half to W. P. Murray, Dawson, Minn. Wheel for grooving-machines	368,374	Aug. 16	1496	399	40	753
Brown, Samuel, Washington, Ind. Water-elevator	373,962	Nov. 29	2525	679	41	979
Brown, Saurin H., Louisville, Ky. Pattern for stove-doors	368,568	Aug. 23	1781	474	40	816
Brown & Sharpe Manufacturing Company. (See Smith, George H., assignor.)						
Brown & Sharpe Manufacturing Company. (See Spaulding, Frank, assignor.)						
Brown, Stella C., Battle Creek, Mich. Combined sleeve-holder and finger-guard	356,679	Jan. 25	1973	519	38	400
Brown, Thomas H. (See Wayland, James, assignor.)						
Brown, Thomas H., Jr., New York, N. Y. Temporary binder	363,277	May 17	1704	445	39	808
Brown, Thomas H., Jr., deceased, New York, N. Y., J. J. P. Odell, administrator. Temporary binder	367,017	July 19	1719	463	40	341
Brown, Thomas H., assignor of one-half to T. H. Brown and K. M. Des Champs, Chicago, Ill. Toy pistol	369,914	Sept. 13	846	224	40	1204
Brown, Thomas J., Bedias, assignor to T. E. Smith and W. E. Darby, Darby, Tex. Cultivator	360,274	Mar. 29	2812	715	38	1458
Brown, Thomas R. (See Meeker and Brown.)						
Brown, Thomas S., Poughkeepsie, N. Y. Mower	357,902	Feb. 15	1686	439	38	753
Brown, Thomas S., Greenfield, Mich. Carriage-top	363,797	May 31	2457	638	39	967
Brown, Thomas T., Chicago, Ill. Slide-valve	370,725	Sept. 27	2070	549	40	1445
Brown, Thomas W., Belmont, assignor to National Manufacturing Company, Worcester, Mass. Egg-beater	369,273	Aug. 30	2755	735	40	1014
Brown, Vinson H., Portland, Oreg. Piano-action	371,666	Oct. 18	1310	340	41	274
Brown, Walter M., Albany, N. Y. Attachment for heating coils and systems of pipes	372,298	Nov. 1	17	5	41	474
Brown, Warren G., <i>et al.</i> (See Larkin, John C., assignor.)						
Brown, William. (See Shea and Brown.)						
Brown, William, Waterville, Me. Combined harrow and clod-crusher	369,686	Sept. 13	520	144	40	1143
Brown, William, Duncannon, Pa. Lightning-conductor	369,915	Sept. 13	848	224	40	1204
Brown, William, assignor to himself and J. McWilliams, Jersey City, N. J. Valve for steam-engines	359,707	Mar. 22	1892	481	38	1283
Brown, William, assignor of two-thirds to J. C. Muntzebaugh, Duncannon, and H. W. Sheibley, Philadelphia, Pa. Car-beater	370,853	Oct. 4	150	40, 41	41	30
Brown, William H., New York, N. Y. Making metallic receivers for fluids under pressure	360,993	Apr. 12	865	219	39	164
Brown, William H., Worcester, Mass. Door-spring	363,361	May 24	1818	477	39	839
Brown, William H., Furness, Mont. Ter. Draft-indicator for vehicles	374,111	Nov. 29	2738	735	41	1022
Brown, William H., Indianapolis, Ind., assignor to C. H. Sparks, Chicago, Ill. Jail or prison	360,508	Apr. 5	163	41	39	32
Brown, William H., assignor to R. O. Babbitt, Jersey City, N. J. Manufacture of tinned steel plates	367,594	Aug. 2	346	99	40	518
Brown, William J., Jersey City, N. J. Combined shawl-strap and head-rest	363,723	May 24	2355	611	39	941
Brown, William J., Jr., Philadelphia, Pa. Machine for inserting and clinching metallic staples	369,916	Sept. 13	849	225	40	1204
Brown, William P., Zanesville, Ohio. Wheel-cultivator	356,613	Jan. 25	1890	{ 496 497 }	{ 38 38 }	{ 383 383 }
Brown, William P., Zanesville, Ohio. Draft attachment for vehicles	357,061	Feb. 1	448	119	38	505
Brown, William P., Zanesville, Ohio. Cotter-key	357,813	Feb. 15	1566	408	38	731
Brown, William P., Zanesville, Ohio. Wheel-cultivator	372,399	Nov. 1	170	48	41	502
Brown, William R., Georgetown, Tex. Attachment for wheel-cultivators	363,278	May 17	1705	446	39	809
Brown, William S., Newark, N. J. Hollow oval or conical bead	363,875	May 31	2576	669	39	989
Brown, William T. (See Pilert and Brown.)						
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Flexible driving spring	359,841	Mar. 22	2101	532	38	1320
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental burring-tool	372,400	Nov. 1	171	48	41	502
Browne, Arthur W., Westfield, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental engine	368,187	Aug. 16	1229	329	40	701
Browne, Benjamin F., Storeville, S. C. Fertilizer-distributor	365,429	June 28	1792	466	39	1450

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Browne, Charles H. (See Twiss, James G., assignor.)						
Browne, Charles H., Jackson, Mich. Press for packing bran, &c	357,814	Feb. 15	1567	{ 408 409	{ 38	731
Browne, Charles H., Jackson, Mich. Press for packing bran	368,127	Aug. 9	1135	{ 301 302	{ 40	674
Browne, Frank J., <i>et al.</i> (See Smith, John P., assignor.)						
Browne, George W., and C. R. Turner, Brooklyn, assignors to New York Fifth Wheel Company, New York, N. Y. Fifth-wheel	355,376	Jan. 4	109	30	38	23
Browne, Herbert J., <i>et al.</i> (See Smith, John P., assignor.)						
Browne, James F., assignor of one-half to D. Farlin, Albany, N. Y. Seal-lock	362,873	May 10	1141	306	39	692
Browne, Walker G., Atlanta, Ga., assignor to United States Automatic Water Cut-Off Company. Automatic cut-off for water-pipes	360,085	Mar. 29	2512	639	38	1402
Browne, Walker G., Atlanta, Ga., assignor to United States Automatic Water Cut-Off Company. Cut-off for water-pipes	360,139	Mar. 29	2610	662	38	1419
Browne, Walker G., Atlanta, Ga., assignor to United States Automatic Water Cut-Off Company. Automatic cut-off valve	360,140	Mar. 29	2612	662	38	1419
Browne, Walker G., Atlanta, Ga., assignor to United States Automatic Water Cut-Off Company. Automatic valve	360,141	Mar. 29	2613	662	38	1420
Brownell, Frederick B. (See Crow, Benjamin F., assignor.)						
Brownell, Frederick B., St. Louis, Mo. Fare-box	371,418	Oct. 11	966	{ 250 251	{ 41	196
Brownell, Frederick B., St. Louis, Mo. Door-hanger	371,419	Oct. 11	968	251	41	197
Brownell, George L. (See Kimball and Brownell.)						
Brownell, George L., Worcester, Mass. Machine for making cord or twine	373,385	Nov. 15	1677	445	41	798
Brownell, Stephen C., assignor of one-half to G. H. Seelye and A. W. Amis, Lapeer, Mich. Sleigh-runner	363,279	May 17	1706	446	39	809
Brownell & Wight Car Company. (See Crow, Benjamin F., assignor.)						
Brownfield, Edward A., Hartwell Hall, Barlaston, county of Stafford, England. Cover for jugs	374,238	Dec. 6	95	24	41	1065
Browning, John M. and M. S., Ogden City, Utah Ter. Magazine fire-arm	367,336	July 26	2190	{ 589 590	{ 40	437
Browning, John M. and M. S., Ogden City, Utah Ter., assignors to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	356,271	Jan. 18	1385	367	38	281
Browning John M. and M. S., Ogden City, Utah Ter., assignors to Winchester Repeating Arms Company, New Haven, Conn. Breech-loading fire-arm	359,917	Mar. 22	2226	560	38	1342
Browning, Matthew S. (See Browning, John M. and M. S.)						
Browning, Richard H., Adrian, Mo. Churn	374,774	Dec. 13	862	227	41	1225
Brownley, Patrick, St. John, New Brunswick, Canada. Lubricator	374,729	Dec. 13	799	{ 209 210	{ 41	1211
Brownrigg, George R., assignor of one-half to J. Sutzin, Minneapolis, Minn. Conveyer for street-car fare-boxes	359,664	Mar. 22	1829	464	38	1271
Brownrigg, George R., and J. Sutzin, Minneapolis, Minn. Lighting device for fare-boxes	361,860	Apr. 26	2117	548	39	418
Brownson, George B., assignor to himself and J. R. McCabe, North Springfield, Mo. Pipe-bending machine	361,487	Apr. 19	1563	406	39	307
Brownson, Ralph, assignor of one-half to P. R. L. Hardenbergh, St. Paul, Minn. Horse-collar	371,486	Oct. 11	1053	274	41	214
Brubaker, D. F. (See Jacoby, John C., assignor.)						
Brubaker, Isaac M. (See Dundore, Sechrist, and Brubaker.)						
Brubaker, Jacob H., Rockton, Pa. Cider or wine press	363,798	May 31	2458	{ 638 639	{ 39	967
Bruce, James, New York, N. Y. Diving apparatus	361,925	Apr. 26	2202	572	39	434
Brueckner, Frederick W., Jersey City, N. J. Watch-chain attachment	362,718	May 10	926	252	39	653
Bruen, Edwin C., Brooklyn, N. Y. Strainer-support and strainer	369,980	Sept. 13	956	252	40	1222
Bruette, Nelson, Jefferson, Wis. Ventilating tobacco-curing houses	359,769	Mar. 22	1994	505	38	1300
Bruggeman, John G., Cleveland, Ohio. Centrifugal pump	370,042	Sept. 20	1058	280	40	1249
Brugger, Michael, <i>et al.</i> (See Davis, Samuel, assignor.)						
Brumbauer, Ferdinand, Vienna, Austria-Hungary. Injector	362,247	May 3	256	72	39	523
Bumble, William. (See Coale and Brumble.)						
Bumble, William, Baltimore, Md. Seal-Lock	368,375	Aug. 16	1497	399	40	753
Brumfield, Robert F., and J. E. Murphy, Hopkinsville, Ky. Hand-dropper	355,377	Jan. 4	110	30	38	23
Brunbauer, Ferdinand, Vienna, Austria-Hungary. Injector	369,097	Aug. 30	2537	673	40	969
Bruner, Edgar G., West Point, Nebr. Oil-can holder	370,004	Sept. 13	997	262	40	1230
Bruner, Martin, Jr., Buckland, Ohio. Cultivator	373,963	Nov. 29	2527	{ 679 680	{ 41	980
Bruner, Preston M., St. Louis, Mo. Arch or beam	356,703	Jan. 25	2005	526	38	405
Bruner, Preston M., St. Louis, Mo. Laying hollow concrete fire-proof floors	356,704	Jan. 25	2006	526	38	405
Bruner, Preston M., St. Louis, Mo. Cable railway	374,775	Dec. 13	864	227	41	1225
Brunet, Amédée, Paris, France. Apparatus for delivering prepaid goods	372,010	Oct. 25	1824	472	41	384
Brunn, Morten H. (See Hansen and Brunn.)						
Brunner, Charles, Peru, Ill. Calisthenic apparatus	359,994	Mar. 29	2352	593	38	1372
Brunner, Theodore, St. Paul, Minn. Plow	369,391	Sept. 6	114	34	40	1054
Brunson, William M., Darlington, S. C. Plow	356,705	Jan. 25	2008	527	38	406
Brush, Jarvis C. (See Grant, James C., assignor.)						
Brush, Jarvis C. (See Grant and Brush.)						
Brusie, James, Oakland, Cal. Wheel attachment for bicycles	359,126	Mar. 8	1019	263	38	1099
Brusie, James, Oakland, Cal. Bicycle	359,127	Mar. 8	1020	264	38	1099
Bruun, Julius, Copenhagen, Denmark. Lubricator	371,818	Oct. 18	1540	398	41	321
Bryan, James W., Wills Creek, Ohio. Baggage-seal	368,128	Aug. 9	1138	302	40	675
Bryan, John, Canton, Ohio. Car-brake	359,665	Mar. 22	1830	465	38	1271
Bryan, Joseph A., Prescott, Ark. Window-screen	357,267	Feb. 8	769	200	38	572
Bryan, L. A. (See Hopkins, Hiram S., assignor.)						
Bryan, Levi B., assignor to J. Keiser, Springfield, Ohio. Paper-sack holder	364,631	June 14	599	161	39	1208
Bryan, Oliver, New York, N. Y. Apparatus for heating cars	364,799	June 14	861	225	39	1256
Bryan, Samuel M. (See Freeman, James P., assignor.)						
Bryan, Thomas B. (See Nichols, John F., assignor.)						
Bryant, Bradley S., Boston, Mass. Carpet-lining	360,757	Apr. 5	508	131	39	95
Bryant, Bradley S., Boston, Mass. Carpet-lining	365,966	July 5	298	79	40	57
Bryant, Charles A., Wakefield, Mass. Strainer	369,687	Sept. 13	520	144	40	1143
Bryant, Edson L., and H. D. Richardson, assignors of one-half to Wallace & Sons, Ansonia, Conn. Suspension device for lamps	375,600	Dec. 27	2037	{ 528 529	{ 41	1465
Bryant, Edwin R., assignor to Rochester Machine Tool Works, Rochester, N. Y. Steam-valve	370,043	Sept. 20	1058	280	40	1249
Bryant, George B., assignor of one-half to E. B. Dougherty, Philadelphia, Pa. Cable railway	366,199	July 12	610	166	40	124
Bryant, James M., assignor of two-thirds to P. and C. Altmeier, Benwood, W. Va. Nail-plate feeder	355,584	Jan. 4	374	101	38	75

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Bryant, Jerome F., assignor to himself and W. Sims, Chicago, Ill. Water-closet valve . . .	369,629	Sept. 6	441	123	40	1119
Bryant, John H. (See Thompson and Bryant.)						
Bryant, John M., Webster, Kans. Dropping attachment for corn-planters	369,630	Sept. 6	442	123	40	1119
Bryant, Joseph W. C. (See Durvin, James A., assignor.)						
Bryant, Levi K., Lawrence, Mass. Butter-jar	356,188	Jan. 18	1278	337	38	259
Bryant, Levi K., Lawrence, Mass. Packing-vessel	368,704	Aug. 23	1972	523	40	852
Bryant, Luther, Maple Grove, Me. Ratchet-wrench	372,654	Nov. 8	552	151	41	584
Bryant, Reuben T. (See Turley and Bryant.)						
Bryant, Rufus P. (See Linder and Bryant.)						
Bryant & Stratton Mechanical Appliance Company. (See Moore, Homer J., assignor.)						
Bryant, Thomas W., Ansonia, Conn. Electrical battery	368,806	Aug. 23	2118	561	40	879
Bryant, William H., Clarksville, Tex. Hay-press	369,837	Sept. 13	730	195	40	1182
Bryarly, Lucie, Clarksville, Tenn. Dress-shield	374,172	Dec. 6	18	4	41	1049
Bryce, Alexander, Toronto, Ontario, Canada. Automatic gas cut-off	372,960	Nov. 8	1017	273	41	667
Bryden, Edward O., Caldwell, Kans. Post-office signal call-box	361,046	Apr. 12	941	238	39	179
Bryson, Andrew, Jr., and H. S. Mudge, Brooklyn, N. Y. Combined gate and block for pneumatic dispatch systems	356,865	Feb. 1	173	46	38	454
Bryson, Andrew, Jr., and H. S. Mudge, Brooklyn, N. Y. Automatic gate-lock for pneumatic dispatch-tubes	357,174	Feb. 8	643	167	38	549
Bryson, Andrew, Jr., and H. S. Mudge, Brooklyn, N. Y. Electric block system for pneumatic dispatch	365,787	July 5	21	8	40	7
Bryson, Andrew, Jr., and H. S. Mudge, Brooklyn, N. Y. Sending device for pneumatic dispatch	370,044	Sept. 20	1060	281	40	1249
Buch, George C., Eureka, Mo. Spring-heel for boots or shoes	357,062	Feb. 1	449	119	38	505
Buch, Nelson C. (See Crossman and Buch.)						
Buchanan, Alexander F., Montrose, N. Y. Stair and table oil-cloth	357,950	Feb. 15	1748	-----	38	765
Buchanan, Edward B., Tullahoma, Tenn. Double-shovel plow	368,871	Aug. 23	2203	586	40	897
Buchanan, James G., assignor of two-thirds to J. W. Peters and F. D. Voris, Neoga, Ill. Baling-press	370,374	Sept. 27	1534	{ 410 411 }	{ 40 40 }	{ 1346 1346 }
Buchanan, William C., assignor to Harrison Machine Works, Belleville, Ill. Combined straw carrier and stacker	367,182	July 26	1955	{ 527 528 }	{ 40 40 }	{ 393 393 }
Buchanan, William C., assignor to Harrison Machine Works, Belleville, Ill. Grain-separator	372,452	Nov. 1	249	69	41	517
Bucher, C. Theodore, Tiffin, Ohio. Refuse-burner	375,667	Dec. 27	2135	555	41	1483
Bucher & Gibbs Plow Company. (See Gibbs, Lewis, assignor.)						
Bucher, John B. (See McLain, James W., assignor.)						
Buchholz, Edward, assignor of one-half to M. Elkin, Philadelphia, Pa. Automatic buckle or fastening device	360,369	Mar. 29	2944	748	38	1480
Buck, Arthur A. (See Buck, Daniel A. A. and A. A.)						
Buck, Daniel A. A., Cheshire, Conn. Photographic camera	357,114	Feb. 1	547	142	38	522
Buck, Daniel A. A. and A. A., Cheshire, Conn. Hand-drill	355,585	Jan. 4	376	101	38	75
Buck, Fred, Cleveland, Ohio. Glass-cutting apparatus	368,928	Aug. 30	2297	610	40	924
Buck, Harry H., Orland, Me. Knee for boats or other vessels	362,487	May 10	590	166	39	592
Buck, Isaac N., Elgin, Ill. Tubular lantern	359,708	Mar. 22	1894	481	38	1283
Buck, Lynn W., Springfield, Vt. Shuttle-operating mechanism	363,724	May 24	2356	611	39	942
Buck, Martha C., Ogden, Mich. Wire dust-whip	356,348	Jan. 18	1508	396	38	304
Buckelew, Albert H., New Brunswick, assignor to himself and C. H. Buckelew, Plainfield, N. J. Electrical heating apparatus	369,432	Sept. 6	167	48	40	1063
Buckelew, Charles H. (See Buckelew, Albert H., assignor.)						
Buckeye Engine Company. (See Barnaby, Charles W., assignor.)						
Buckeye Iron and Brass Works. (See Krutzsch, William, assignor.)						
Buckingham, Charles L. (See Joline, Ferdinand S., assignor.)						
Buckingham, Charles L., New York, N. Y. Commutator-adjuster for dynamo-electric machines	357,115	Feb. 1	549	143	38	523
Buckingham, Charles L., New York, N. Y. Regulator for dynamo-electric machines	359,770	Mar. 22	1999	505	38	1301
Buckingham, Joseph P., New York, N. Y. Paper box	356,522	Jan. 25	1753	456	38	357
Buckingham, Joseph P., New York, N. Y. Box	369,688	Sept. 13	522	144	40	1144
Buckius, Albert O., assignor to C. A. Taylor, Chicago, Ill. Trunk-fastening	373,879	Nov. 29	2407	647	41	957
Buckland, Harry W., Swanton, Vt. Garment-supporter	361,984	Apr. 26	2298	598	39	449
Buckland, Harry W., assignor to C. C. Gilmore, Swanton, Vt. Coat and hat hook	365,725	June 28	2237	582	39	1535
Buckley, Joseph A., and C. J. Koefoed, San Francisco, Cal. Ventilating cars	355,586	Jan. 4	377	{ 101 102 }	{ 38 38 }	{ 75 75 }
Buckley, Joseph A., and C. J. Koefoed, San Francisco, Cal. Ventilating cars	355,587	Jan. 4	379	102	38	76
Buckley, Thomas, assignor of one-fourth to I. Lavouche, Jr., Middlebury, Vt. Bridge	374,887	Dec. 13	1024	{ 267 268 }	{ 41 41 }	{ 1255 1255 }
Buckman, Benjamin J., assignor to Heywood Brothers & Co., Gardner, Mass. Chair-seat. Bucknam, Edmund H. (See White, George, assignor.)	373,582	Nov. 22	1984	527	41	865
Buckton, W. Abram, Covington, Ky. Rain-water cut-off	362,488	May 10	591	166	39	593
Buda Foundry and Manufacturing Company. (See Westervelt, Benjamin J., assignor.)						
Budd, J. Talman. (See Martin and Budd.)						
Budd, William E., Chatham, N. J. Pneumatic grain-conveyer	366,919	July 19	1596	428	40	319
Budd, William E., Chatham, N. J., and F. Sickels, Chicago, Ill. Combined latch and lock	364,574	June 7	524	141	39	1187
Budd, William E., Chatham, N. J., and F. Sickels, Chicago, Ill. Combined latch and lock	372,961	Nov. 8	1018	274	41	667
Budd, William E., Chatham, N. J., and F. Sickels, Chicago, Ill. Combined lock and latch	372,962	Nov. 8	1021	{ 274 275 }	{ 41 41 }	{ 667 667 }
Budd, William E., Chatham, N. J., and F. Sickels, Chicago, Ill. Combined latch and lock	372,963	Nov. 8	1024	275	41	668
Budde, Robert H., Middletown, assignor to Wilcox Silver Plate Company, Meriden, Conn. Ornamenting hollow metal articles	362,815	May 10	1063	289	39	678
Buddington, Frank E., Chicago, Ill. Toy water-motor	362,421	May 3	490	139	39	570
Buddington, Frank E., Chicago, Ill. Convertible implement for cutting and marking	370,005	Sept. 13	999	262	40	1230
Buell, Charles E. (See Howland, Stephen H., assignor.)						
Buell, Charles E., Springfield, Mass. Electric lighting of railway-cars	365,460	June 28	1837	{ 477 478 }	{ 39 39 }	{ 1459 1459 }
Buell, Park A., Stockton, Cal. Machine for stretching wire-cloth	355,436	Jan. 4	184	49	38	37
Buell, Salmon A. (See Sheppard and Buell.)						
Buerk, Harry A. (See Cross, Frank, assignor.)						
Buermann, August, Newark, N. J. Bridle-bit	356,918	Feb. 1	245	67	38	466
Bufe, Franz H. and J. G., Gera-Untermhaus, Reuss Jüngere Linie, Germany. Accordion. Bufo, Johann G. (See Bufo, Franz H. and J. G.)	365,501	June 28	1891	492	39	1470
Buff, Jacob. (See Pfeil, Herman C., assignor.)						
Buffalo Seal and Press Company. (See Boughton, Claudius V., assignor.)						
Buffington, George A. (See Johnston and Buffington.)						
Buffum, Herbert H., Manchester, N. H., assignor of one-half to J. G. B. Adams, Lynn, Mass. Car-axle lubricator	356,272	Jan. 18	1390	368	38	282

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Bugg, Owen T., Newark, N. J., assignor to United States Cotton Harvester Company. Cotton-harvester	359,554	Mar. 15	1647	421	38	1222
Bugh, John. (See Eyster and Bugh.)						
Buhmeier, Henry T., New York, N. Y. Venetian blind	371,300	Oct. 11	801	204	41	165
Buhoup, Harry C. (See Hien, Phillip, assignor.)						
Buick, David D., Detroit, Mich. Flushing apparatus for siphon water-closets	372,964	Nov. 8	1029	275	41	668
Buisson, Cyprian, Wabasha, Minn. Rafting-boom pin	357,365	Feb. 8	891	234	38	596
Bujac, James, Catonsville, Md. Apparatus for the manufacture of fuel and illuminating gas	365,906	July 5	210	54	40	41
Bulen, George F., Jersey City, N. J. Electric circuit-testing apparatus	365,726	June 28	2238	{ 582 583 }	{ 39 }	1535
Bulett, William S., Delta, Pa. Vehicle-spring	373,171	Nov. 15	1347	357	41	737
Bulger, John W., East Liverpool, Ohio. Lamp attachment	365,164	June 21	1401	370	39	1364
Bulkley, John M., Monroe, Mich. Pail or barrel cover	361,575	Apr. 19	1688	436	39	330
Bull, John, Chattanooga, Tenn. Stirrup	367,696	Aug. 2	512	141	40	547
Bullard, James H., Springfield, Mass. Steam road-vehicle	365,788	July 5	22	{ 8 9 10 }	{ 40 }	7
Bullard, James H., Springfield, Mass. Furnace for burning hydrocarbon fuel	365,789	July 5	30	10, 11	40	8
Bullard, James H., Springfield, Mass. Furnace for burning hydrocarbon fuel	365,790	July 5	36	11	40	9
Bullis, Henry M., Traverse City, Mich. Laying-out attachment for mortising-machines	374,730	Dec. 13	800	210	41	1212
Bullock, De Forest, Busti, N. Y. Vegetable-cutter	366,920	July 19	1598	428	40	319
Bullock, Edwin B., Attleborough, Mass. Chain-making machine	373,552	Nov. 22	1943	{ 515 516 }	{ 41 }	858
Bullock, Ellen M., administratrix. (See Bullock, Joseph P.)						
Bullock, Joseph P., deceased; E. M. Bullock, administratrix and assignor to Milwaukee Harvester Company, Milwaukee, Wis. Operating mechanism for cord-holders of grain-binders	366,372	July 12	850	228	40	165
Bullock, Joseph P., assignor to Milwaukee Harvester Company, Milwaukee, Wis. Shifting mechanism for grain-binder tables	372,515	Nov. 1	333	92	41	534
Bullock, Joseph P., assignor to Milwaukee Harvester Company, Milwaukee, Wis. Trip mechanism for grain-binders	374,341	Dec. 6	247	66	41	1093
Bullock, L. L. (See Safford, Alfred G., assignor.)						
Bullock, Marshall C., Hannibal, Mo. Folding table	358,833	Mar. 8	612	152	38	1022
Bullock, O. W. (See Stoddard, Joshua C., assignor.)						
Bullock Printing Press Company. (See Kahler, Conrad, assignor.)						
Bullock, William R. (See Wiard and Bullock.)						
Bullock, William R. (See Wiard, Judd, and Bullock.)						
Bullough, John. (See Mills, Frederick, assignor.)						
Bulova, Joseph. (See Lamont, John, assignor.)						
Bulova, Joseph, New York, N. Y. Jewelry	361,610	Apr. 19	1738	449	39	340
Bulova, Joseph, New York, N. Y. Jewelry	363,725	May 24	2357	611	39	942
Bulova, Joseph, New York, N. Y. Sleeve-button	364,212	June 7	21	6	39	1092
Bume, Louis, Holyoke, Mass. Apparatus for treating fabrics	375,474	Dec. 27	1859	486	41	1432
Bunce, Lewis D., Salt Lake City, Utah Ter. Churn-dasher	369,583	Sept. 6	371	103	40	1105
Bunch, N., et al. (See Miller, John D., assignor.)						
Bunch, Samuel P., Richland, Mo. Cutting apparatus for harvesters	370,762	Oct. 4	15	4	41	6
Bundy, Herbert F., Welcome, N. Y. Machine for boring wood or metal	356,098	Jan. 18	1159	307	38	238
Bundy, Willard L., Auburn, N. Y. Electric station-indicating apparatus	358,645	Mar. 1	333	80, 81	38	965
Bundy, William, Carthage, Ind. Machine for making wire-and-wood fencing	369,584	Sept. 6	372	103	40	1105
Bungarz, Charles H., Brooklyn, N. Y. Protecting-iron for staples	369,392	Sept. 6	115	34	40	1055
Bunker, Ira S., North Springfield, Mo. Combined fire and burglar alarm	357,366	Feb. 8	891	235	38	596
Bunker, William I., Chicago, Ill. Retaining device for bedding	368,647	Aug. 23	1882	502	40	835
Bunker, William I., Chicago, Ill. Furniture-leg	371,875	Oct. 18	1629	420	41	339
Bunker, William I., Chicago, Ill. Vehicle-spring	373,267	Nov. 15	1489	393	41	763
Bunker, William I., assignor to Rocker Spring Company, Chicago, Ill. Spring	373,386	Nov. 15	1679	445	41	799
Bunnell, Jesse H. (See Van Hoevenbergh, Henry, assignor.)						
Bunnell, Joseph A., assignor of one-half to J. T. Robb, New York, N. Y. Insulated ball-joint	356,614	Jan. 25	1892	497	38	384
Bunten, John B., Burk, Iowa. End-gate	365,967	July 5	300	79	40	57
Bunting, Thomas C., Philadelphia, Pa. Bottle-stopper cover	372,892	Nov. 8	925	249	41	650
Bunting, William, Jr., Boston, Mass., assignor to Meyer-Sniffen Company, (limited,) New York, N. Y. Water-closet apparatus	360,337	Mar. 29	2891	736	38	1472
Buracker, Ambrose, Beardstown, Ill. Flood-fence	359,771	Mar. 22	2000	506	38	1301
Burbank, Abner J., Harvard, Ill. Track for hay-carriers	366,921	July 19	1599	428	40	319
Burbank, Charles E., et al., trustees. (See Loveren, Arthur D., assignor.)						
Burbank, Clarence A., Kinsley, Kans. Detachable watch-pocket	359,343	Mar. 15	1315	341	38	1160
Burbank, Edward S., Omaha, Nebr. Jeweler's tag	374,823	Dec. 13	936	244	41	1239
Burcaw, Franklin P., Hazleton, assignor to himself and R. E. Ocksenreider, Deringer, Pa. Ironing-table	364,800	June 14	862	226	39	1256
Burch, George C., Groton, Conn. Thill-coupling	371,170	Oct. 11	623	159	41	131
Burch, George C., assignor of one-half to R. S. Edgcomb, Groton, Conn. Vehicle-gear	356,821	Feb. 1	107	30	38	343
Burch, George C., assignor of one-half to R. S. Edgcomb, Groton, Conn. Reach-connection for vehicles	371,734	Oct. 18	1421	367	41	298
Burch, Nicholas, Toledo, Ohio. Device for attaching colters to plows	367,697	Aug. 2	513	141	40	547
Burcham, Andrew, Mineral City, Ind. Ditching-machine	358,538	Mar. 1	187	44	38	937
Burchard, George W., Fort Atkinson, Wis. Scale for indicating the butter value of milk and cream	362,816	May 10	1064	289	39	678
Burckett, Charles H., Brooklyn, N. Y. Manufacture of horseshoe-nails	371,171	Oct. 11	624	{ 159 160 }	{ 41 }	131
Burckhardt, Martin, Brooklyn, and E. Wieman, New York, N. Y. Necktie	363,362	May 24	1819	{ 477 478 }	{ 39 }	839
Burden, Howard H., Troy, N. Y. Kiln for roasting ores	357,456	Feb. 8	1023	{ 271 272 }	{ 38 }	620
Burden, Howard H., Troy, N. Y. Machine for making horseshoes	366,373	July 12	851	229	40	168
Burden, James A., Troy, N. Y. Horseshoe-machine	373,125	Nov. 15	1271	{ 337 338 }	{ 41 }	724
Burden, William H. (See Howard and Burden.)						
Burdess, Adam, Coventry, county of Warwick, England. Velocipede	364,335	June 7	173	48	39	1121
Burdett, Daniel A., Newburgh, Ontario, Canada. Can	368,510	Aug. 16	1703	453	40	791
Burdett, Daniel B., Minneapolis, Minn. Ornamenting wood, leather, &c	362,874	May 10	1142	307	39	692
Burdge, Robert H., Boston, Mass. Car	370,448	Sept. 27	1643	{ 438 439 }	{ 40 }	1366
Burdick, Charles, and C. R. Brown, Cleveland, Ohio. Dish-washing machine	367,361	Aug. 2	13	3	40	453

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Name residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Burdick, George, assignor to Chamberlin Cartridge Company, Cleveland, Ohio. Cartridge-loading machine	357,457	Feb. 8	1026	272	38	621
Burdick, Justin H., Utica, assignor to Elastic Nut Company, Milwaukee, Wis. Nut	356,744	Feb. 1	8	3	38	424
Burdick, Walter H., Racine, Wis. Steam-boiler	362,422	May 3	491	139	39	570
Burdon, David P., Sanford, assignor to Burdon Patents Association, Palatka, Fla. Machine for extracting fibers	365,430	June 28	1793	467	39	1451
Burdon Patents Association. (See Burdon, David B., assignor.)						
Burdsall, Stephen, Fremont, Ohio. Running-gear for vehicles	362,423	May 3	492	139	39	570
Burdsall, Stephen, assignor to Herbrand Company, Fremont, Ohio. Fifth-wheel	358,428	Mar. 1	7	3	38	904
Burdsall, Stephen, assignor to Herbrand Company and Fremont Drop Forge Company, Fremont, Ohio. Thill-coupling	369,689	Sept. 13	523	145	40	1144
Burger, Frank M., Joliet, Ill. Potato-planter	368,129	Aug. 9	1139	302	40	675
Burger, John, assignor to one-half to E. Wiswell, Cincinnati, Ohio. Washer-cutter	373,126	Nov. 15	1273	338	41	724
Burger, Theodore W., New York, N. Y. Ornamenting sheet metal	363,205	May 17	1612	423	39	790
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	357,458	Feb. 8	1028	272	38	621
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	357,459	Feb. 8	1030	273	38	621
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	357,460	Feb. 8	1031	273	38	622
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	357,461	Feb. 8	1033	274	38	622
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	357,462	Feb. 8	1035	274	38	623
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	357,517	Feb. 8	1115	292	38	638
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	357,518	Feb. 8	1118	293	38	638
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	357,519	Feb. 8	1121	293	38	639
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	366,558	July 12	1092	296	40	217
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	366,559	July 12	1095	{ 296 297 }	{ 40 40 }	{ 218 218 }
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	366,560	July 12	1098	297	40	218
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	366,561	July 12	1101	297	40	219
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	366,562	July 12	1103	298	40	220
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	366,563	July 12	1108	298	40	220
Burgess, Andrew, Owego, N. Y. Magazine-gun	366,564	July 12	1110	298	40	221
Burgess, Andrew, Owego, N. Y. Magazine-gun	366,565	July 12	1113	298	40	221
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	373,438	Nov. 22	1755	465	41	824
Burgess, Gardner M., Jr., Providence, R. I. Card-holder	363,206	May 17	1614	424	39	790
Burgess, Henry, Chicago, Ill. Lounge	359,009	Mar. 8	874	222	38	1070
Burgess, Hugh. (See Rennyson, William, assignor.)						
Burgess, James H., South Pittsburg, Tenn. Buggy-shaft	367,183	July 26	1956	528	40	394
Burgess, Josiah, Zanesville, Ohio. Gas-burner	364,986	June 14	1133	297	39	1307
Burgess, Noah P., assignor to Burgess, Tobes & Co., Portland, Me. Press for removing paint from cans	367,698	Aug. 2	514	141	40	548
Burgess, Tobes & Co. (See Burgess, Noah P., assignor.)						
Burgett, Isaiah C., Wheaton, Ill. Whiffletree-hook	374,932	Dec. 20	1107	289	41	1280
Burgher, Charles, Boston, Mass., assignor to Automatic Fire Alarm and Extinguisher Company, (limited,) New York, N. Y. Fire-alarm telegraphic repeater	368,907	Aug. 23	2256	600	40	907
Burgher, Charles, Boston, Mass., assignor to Automatic Fire Alarm and Extinguisher Company, (limited,) New York, N. Y. Fire-alarm telegraph	371,876	Oct. 18	1630	{ 421 422 }	{ 41 41 }	{ 339 339 }
Burhans, George, Carlisle Centre, N. Y. Horseshoe-pad	371,301	Oct. 11	803	205	41	165
Burk, Marshall B., Prescott, assignor of one-half to G. B. Baker, Dayton, Wash. Ter. Door	361,810	Apr. 26	2034	528	39	402
Burke, Asa L., Stratford, Ontario, Canada. Washing-machine	371,546	Oct. 18	1143	298	41	241
Burke, Charles G., Richmond Hill, N. Y. Automatic printing-telegraph	360,994	Apr. 12	866	220	39	164
Burke, Charles G., Richmond Hill, N. Y. Automatic printing-telegraph	360,995	Apr. 12	871	{ 220 221 }	{ 39 39 }	{ 165 165 }
Burke, Charles G., Richmond Hill, N. Y. Telegraph-instrument	374,038	Nov. 29	2630	{ 705 706 }	{ 41 41 }	{ 1000 1000 }
Burke, James A., assignor to Chicago Metal Quoin and Patent Block Company, Chicago, Ill. Printer's block	356,866	Feb. 1	175	46	38	454
Burke, Patrick F., Boston, Mass. Die for making horseshoe-calks	370,763	Oct. 4	16	4	41	6
Burke, Patrick F., Boston, Mass. Die for making horseshoe-calks	370,764	Oct. 4	18	5	41	6
Burke, Stephen E., Edon, Ohio. Furnace-grate	360,849	Apr. 12	643	170	39	127
Burke, Stephen E., Edon, Ohio. Draft-regulator	374,039	Nov. 29	2632	706	41	1001
Burkett, John T., Waterloo, Iowa. Combined feeder and sifter	359,496	Mar. 15	1552	396	38	1204
Burkhardt, Thomas, Brooklyn, N. Y. Stove	379,314	Mar. 15	1274	330	38	1153
Burkhardt, Thomas, Brooklyn, N. Y. Stove	362,199	May 3	192	57	39	510
Burkhardt, Howard F., Philadelphia, Pa. Combined saw and planer	359,497	Mar. 15	1553	397	38	1204
Burkholder, George E., Morantown, Kans. Machine for cutting broom-corn	367,957	Aug. 9	909	246	40	632
Burkin, Benjamin, and T. Melville, Clapton, county of Middlesex, England. Domestic fire-escape	372,596	Nov. 1	458	123	41	556
Bürklin, Victor, assignor of one-half to J. Domes, New York, N. Y. Burner for petroleum cooking-stoves	355,811	Jan. 11	714	187	38	148
Burkman, Walfrid, assignor to C. H. Frost, Chicago, Ill. Clay reducer and disintegrator	357,973	Feb. 15	1784	{ 468 469 }	{ 38 38 }	{ 771 771 }
Burkman, Walfrid, assignor to C. H. Frost, Chicago, Ill. Brick-machine	364,395	June 7	255	72, 73	39	1137
Burleigh, Samuel G. (See Van Antwerp, Harmon W., assignor.)						
Burley, Thomas. (See Nash and Burley.)						
Burlingame, Thomas E., Delavan, Ill. Tongue-support	372,740	Nov. 8	673	184	41	607
Burmeister, John C. (See Gould, Samuel A., assignor.)						
Burn, Walter S., and E. Schultz, Hamilton, Ontario, Canada. Tubular lantern	359,993	Mar. 29	2352	593	38	1372
Burnap, Hiram F. (See Andrews and Burnap.)						
Burnap, James M. (See Sage and Burnap.)						
Burnet, George B. (See Fisher and Burnet.)						
Burnett, Asbury, Big Springs, Kans. Washing-machine	374,141	Nov. 29	2781	747	41	1029
Burnett Bros. (See Burnett, Robert A., assignor.)						
Burnett, Daniel L., and L. De Lisle, Florissant, Mo. Railway-frog	357,951	Feb. 15	1749	456	38	765
Burnett, Daniel L., and L. De Lisle, Florissant, Mo. Railway-crossing	366,922	July 19	1600	429	40	319
Burnett, Edwin E., Tufnel Park, county of Middlesex, England. Remedy for rheumatism	366,149	July 5	542	.....	40	102
Burnett, Jeremiah Y. (See Dean, George B., assignor.) (Reissue.)						
Burnett, George B. (See Fisher, Charles, assignor.)						
Burnett, Joseph, Montreal, Quebec, Canada. Paper-holder	366,200	July 12	611	{ 166 167 }	{ 40 40 }	{ 124 124 }
Burnett, Robert A., assignor to Burnett Bros., Washington Court-House, Ohio. Grain-drier	355,861	Jan. 11	794	209	38	171
Burnett, William H., assignor of one-third to L. L. Hopkins, Danbury, Conn. Umbrella	364,987	June 14	1135	297	39	137
Burnham, Arthur M., assignor of one-half to C. Gifford, Gardiner, Me. Pan lifter and turner	372,965	Nov. 8	1030	274	41	68
Burnham, Charles E., White Plains, N. Y. Burglar-alarm clock	360,338	Mar. 29	2592	737	38	1472

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Burnham, Edgar S. (See Dunham and Burnham.)						
Burnham, Edward P. (See Toedt and Burnham.)						
Burnham, Francis A., <i>et al.</i> (See Hanson, Freeman, assignor.)						
Burnham, Francis H., Ipswich, Mass. Feed-bag	369,393	Sept. 6	116	34	40	1055
Burnham, George, <i>et al.</i> (See Vauclain, Samuel M., assignor.)						
Burnham, Lewis T., Hyde Park, Ill. Grate	371,667	Oct. 18	1313	340	41	275
Burnham, Sherburne W., assignor to G. A. Douglass, Chicago, Ill. Photographic develop- ing-tray	363,505	May 24	2035	530	39	881
Burnham, William H., and J. H. Miller, assignors to United States Wind Engine and Pump Company, Batavia, Ill. Hay-carrier	368,511	Aug. 16	1703	453	40	792
Burnley, William. (See Hitchcock and Burnley.)						
Burnley, William, <i>et al.</i> (See Hitchcock, Charles A., assignor.)						
Burnley, William, assignor of part to C. A. Hitchcock, North East, L. F. Watson, Warren, and S. A. Davenport, Erie, Pa. Telephone-transmitter	361,047	Apr. 12	943	238	39	179
Burns, Alexander B. (See Collins, Thomas J., assignor.)						
Burns, Arthur H. (See Wright and Burns.)						
Burns, Elijah P., Detroit, Mich. Machine for pointing rake-teeth	374,342	Dec. 6	248	66	41	1093
Burns, James, Chicago, Ill. Cash and parcel carrier	373,172	Nov. 15	1348	{ 357 358 }	{ 41 41 }	737
Burns, Nevin E. (See Olsen and Burns.)						
Burns, Samuel A., assignor to himself and J. S. Silver, New York, N. Y. Car-brake	369,159	Aug. 30	2609	693	40	985
Burnside, George A. E., Brooklyn, N. Y. Machine for printing oil-cloth	368,751	Aug. 23	2039	540	40	865
Burnside, Myron C. (See Collins and Burnside.)						
Burr, Almon W., Beloit, Wis. File-box	371,735	Oct. 18	1422	367	41	298
Burr, Charles A., Rockdale, N. Y. Sap-spout	363,280	May 17	1708	446	39	809
Burr, Edwin A., Auburn, N. Y. Carpet-cleaner	359,709	Mar. 22	1896	481	38	1284
Burr, Ellis M., and J. W. Stipes, Champaign, Ill. Machine for cutting bricks or tiles	368,929	Aug. 30	2298	{ 610 611 }	{ 40 40 }	924
Burr, Henry W., South Framingham, Mass. Overshoe	360,795	Apr. 5	559	145	39	105
Burr, John A., New York, N. Y. Shutter-fastener	363,207	May 17	1614	424	39	791
Burr, Remus D., Kingsborough, N. Y. Glove or mitten	373,048	Nov. 15	1162	311	41	703
Burr, Sanford S., Winnetka, Ill. Ash-guard for cigars	356,615	Jan. 25	1893	497	38	384
Burrell, David H. (See Evans, Jonathan, assignor.)						
Burrell, David H., <i>et al.</i> (See Koelkebeck, Charles W. A., assignor.)						
Burrell, Elbert J., Ettna, Tenn. Apparatus for distilling wood	363,313	May 17	1750	458	39	817
Burrell & Whitman. (See Hansen and Brunn, assignors.)						
Burrell, Zeanas S., G. W. De Voe, Brooklyn, N. Y., and J. J. Pennal, Jersey City, N. J. Hoisting-net	363,113	May 17	1488	393	39	765
Burris, Craven H. B., St. Louis, Mo. Street-car brake	367,699	Aug. 2	515	{ 141 142 }	{ 40 40 }	548
Burris, John A. W., Deport, Tex. Hopple	373,173	Nov. 15	1355	359	41	738
Burrough, George A., Providence, R. I., assignor to American Floral Requisite Company, New York, N. Y. Flower-pot	357,698	Feb. 15	1396	367	38	699
Burroughs, William S., assignor to Boyer Manufacturing Company, St. Louis, Mo. Pat- tern-maker's tram	370,313	Sept. 20	1436	385	40	1320
Burrows, Robert R., Potter Valley, Cal. Beet-puller	361,205	Apr. 12	1184	300	39	224
Burrows, William, Brooklyn, N. Y. Seat for water-closets	362,424	May 3	494	140	39	571
Burrows, William C., Stockton, N. Y. Thill-coupling	357,974	Feb. 15	1785	469	38	772
Burrows, William C., Stockton, N. Y. Thill-coupling	374,343	Dec. 6	249	66	41	1094
Burruss, John C. (See Wade and Burruss.)						
Burson, William W., Chicago, Ill. Welding wrought-iron to cast-iron	356,982	Feb. 1	335	.....	38	485
Burt, James H., West Randolph, Vt. Box or tub fastener	359,344	Mar. 15	1315	341	38	1160
Burt, John, Iron River, Mich. Furniture-joint	365,362	June 28	1684	439	39	1431
Burt, John U., Swinton Street, county of Middlesex, England. Tire for carriage-wheels ..	356,919	Feb. 1	246	68	38	467
Burt, John W., and G. W. Trusty, Cascilla, Miss. Coffee-roaster	374,933	Dec. 20	1107	289	41	1280
Burt, Marcena, assignor of one-half to E. White, Bedford, Mich. Car-coupling	360,414	Apr. 5	16	4, 5	39	5
Burt, Ransom K., Haddam, Kans. Paint compound	365,727	June 28	2241	.....	39	1536
Burt, Thomas W., Lafayette, Ind. Twine-cutter	358,143	Feb. 22	2036	536	38	822
Burthoul, Joseph, Brussels, Belgium. Hat-sweat	359,772	Mar. 22	2001	506	38	1301
Burtis, Arthur L. (See Rooney and Burtis.)						
Burton, Augustus G., Chicago, Ill. Cutter for perforating-machines	371,736	Oct. 18	1423	368	41	298
Burton, Charles C., Utica, N. Y. Transfer table and dock	363,114	May 17	1489	{ 393 394 }	{ 39 39 }	765
Burton, Frank L., Erie, Pa. Thill-coupling	373,174	Nov. 15	1356	359	41	738
Burton, George D., New Ipswich, N. H. Stock-car	359,345	Mar. 15	1316	342	38	1160
Burton, George D., New Ipswich, N. H. Stock-car	360,370	Mar. 29	2945	748	38	1480
Burton, George D., New Ipswich, N. H. Stock-car	374,824	Dec. 13	937	{ 244 245 }	{ 41 41 }	1239
Burton, George D., New Ipswich, N. H., and C. H. Magoon, St. Johnsbury, Vt.; said Ma- goon assignor to said Burton. Railway-signal	368,512	Aug. 16	1704	{ 454 455 }	{ 40 40 }	792
Burton, Matthew, Batavia, Ill. Metallic spring-bed frame	366,566	July 12	1115	299	40	222
Burton, Simon K. (See Melbourne, William A., assignor.)						
Burton, W. Leigh, Richmond, Va. Electric heater	357,572	Feb. 15	1214	320	38	667
Burton, Watkins L., assignor of one-half to E. Waddey, Richmond, Va. Safety attachment for pocket-books	358,380	Feb. 22	2360	627	38	884
Burton, William S., Maryville, Tenn. Machine for grinding hand-cards	357,975	Feb. 15	1786	469	38	772
Burwell, Joseph Y., Chico, and F. Mammel, Roxbury, Kans. Car-coupling	368,513	Aug. 16	1706	455	40	792
Busbridge, George F. (See Turvey, John H., assignor.)						
Busby, Elizabeth A. G. (See Busby, Nahum J., assignor.)						
Busby, Nahum J., assignor to E. A. G. Busby, Maplewood, Mass. Alarm for doors, &c ...	361,048	Apr. 12	945	239	39	179
Busch, Fedor E., Chicago, Ill. Binder for tablets	375,046	Dec. 20	1277	333	41	1309
Buscher, John H., Ottawa, Ohio. Fence-post	359,666	Mar. 22	1831	465	38	1272
Büschgens, Eugen, Rheydt, assignor to F. Soennecken's Verlag, Bonn, Germany. Copy- ing-press	368,908	Aug. 23	2261	601	40	908
Buschmann, Victor H., assignor of one-half to A. H. Brinkmann, Baltimore, Md. Bustle ..	358,800	Mar. 1	554	138	38	1007
Buschmann, Victor H., assignor to A. H. Brinkmann, Baltimore, Md. Bustle	374,519	Dec. 6	499	130	41	1142
Busfield, James. (See Fellows and Busfield.)						
Busfield, James, Haverhill, assignor of one-half to E. G. Elliot, Bradford, Mass. Key-fastener ..	366,150	July 5	542	146	40	102
Busfield, James, and H. Fellows, Haverhill, Mass., assignors to Kenoza Seam Pressing Ma- chine Company, Kingston, N. H. Seam-pressing machine	372,837	Nov. 8	843	{ 224 225 }	{ 41 41 }	635
Bush, Abraham V. B., Brooklyn, N. Y. Letter-box	357,143	Feb. 1	597	153	38	531
Bush, Charles W. (See Beal, John, assignor.)						
Bush, Clark T., Maryland, N. Y. Wire-fastener	371,122	Oct. 4	555	141	41	110
Bush, Cory I., Proctorsville, Ohio. Tire for wheels	373,921	Nov. 29	2466	662	41	968

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Bush, George A. (See Barnsback and Bush.)						
Bush, Nye A., Chicago, Ill. Canceling-stamp.....	367,269	July 26	2089	564	40	419
Bush, Thomas J., Lexington, Ky. Interlocking bolt.....	361,985	Apr. 26	2299	598	39	449
Bush, Thomas J., Lexington, Ky. Interlocking bolt.....	361,986	Apr. 26	2300	599	39	450
Bush, Thomas J., Lexington, Ky. Bridge-plate for railway-joints, &c.....	366,815	July 19	1464	391	40	293
Bush, Thomas J., Lexington, Ky. Railway clamp-plate.....	373,641	Nov. 22	2071	552	41	884
Bushnell, James S., Poughkeepsie, N. Y. Car-seat.....	372,597	Nov. 1	459	123	41	557
Busiel, Lewis F., <i>et al.</i> (See Esty, William, assignor.)						
Buskirk, Alna L., Shelbyville, Mich. Door-check.....	375,337	Dec. 27	1677	441	41	1396
Bussey, Esek, assignor to Bussey & McLeod Stove Company, Troy, N. Y. Stove.....	363,281	May 17	1709	447	39	809
Bussey, Esek, assignor to Bussey & McLeod Stove Company, Troy, N. Y. Parlor-stove.....	373,127	Nov. 15	1275	{ 338 339 }	{ 41 41 }	724
Bussey & McLeod Stove Company. (See Bussey, Esek, assignor.)						
Bussey, William G., New York, N. Y. Apparatus for vaporizing and burning liquid hydrocarbons.....	360,558	Apr. 5	245	61	39	48
Bustin, William H. Watertown, Mass. Die for making harness-saddle trees.....	358,801	Mar. 1	555	{ 138 139 }	{ 38 38 }	1007
Butcher, Joseph, Boston, Mass. Cyclometer.....	356,822	Feb. 1	108	30	38	443
Butcher, Joseph, Boston, Mass. Cyclometer.....	357,758	Feb. 15	1498	391	38	718
Butcher, Joseph, Boston, Mass. Oiler and attachment for vehicles.....	369,631	Sept. 6	443	124	40	1119
Butler, Aron G., Atlanta, assignor of one-half to W. B. Wolcott, Griffin, Ga. Churn-power.....	371,487	Oct. 11	1054	475	41	214
Butler, Asa L., Dartford, Wis. Car-mover.....	356,058	Jan. 11	1086	285	38	219
Butler, Aurelia O., executrix. (See Butler, Derwin E.)						
Butler, Benjamin F., Woodhull, Ill. Grain-shocking machine.....	355,378	Jan. 4	112	30, 31	38	24
Butler, Benjamin F., Davenport, Iowa. Three-wheel riding gang-plow.....	357,573	Feb. 15	1215	320	38	667
Butler, Benjamin F., Davenport, Iowa. Three-wheel riding-plow.....	357,574	Feb. 15	1217	320	38	667
Butler, Calvin L., Greenfield, Mass., assignor to J. N. Skinner, New Britain, Conn. Drill-chuck.....	356,616	Jan. 25	1895	497	38	384
Butler, Derwin E., deceased, (A. O. Butler executrix,) Chesterfield, Ohio. Feed-water regulator.....	356,400	Jan. 18	1578	415	38	316
Butler, Ebenezer, Syracuse, N. Y. Combined pencil-holder and book-binder.....	371,172	Oct. 11	626	160	41	131
Butler, Edward, assignor of one-half to T. G. Steinke, Atlantic, Iowa. Stove.....	359,532	Mar. 15	1610	412	38	1215
Butler, Eli T., Philadelphia, Pa. Gravity-separator for flouring-mills.....	366,923	July 19	1602	429	40	320
Butler, Frank L., Danbury, Conn. Finishing the attaching edges of hat-sweats.....	374,654	Dec. 13	694	182	41	1191
Butler Hardware Company. (See Emerick, Garrett M., assignor.)						
Butler, Henry, <i>et al.</i> (See Gold, Joseph S., assignor.)						
Butler, Henry. (See Mueller, William H., assignor.)						
Butler, Howard H., assignor of one-half to C. C. Cook, Canton, Ohio. Device for attaching tablets to telephones.....	373,767	Nov. 22	2247	601	41	918
Butler, Hunt M., <i>et al.</i> (See Ennis, Henry J., assignor.)						
Butler, Jeremiah C., Lexington, Mo. Nut-lock.....	356,745	Feb. 1	9	3	38	424
Butler, John C. (See Patch, Benjamin F., assignor.)						
Butler, John G., Springfield, Mass. Projectile.....	373,387	Nov. 15	1680	446	41	799
Butler, Joseph C., Louisville, Ky. Barometer.....	359,057	Mar. 8	933	238	38	1081
Butler, Lewis C. (See McElroy, James F., assignor.)						
Butler, Paul, Lowell, Mass. Cartridge-shell.....	364,213	June 7	22	6	39	1092
Butler, Thomas, and A. Ligibel, Jersey City, N. J. Car-starter.....	357,759	Feb. 15	1499	392	38	718
Butler, Thomas H., Harrisburg, Pa. Water-separating attachment for ice-machines.....	371,173	Oct. 11	627	161	41	132
Butler, Thomas H., Harrisburg, Pa. Pump attachment for gaseous liquids.....	371,488	Oct. 11	1055	275	41	214
Butler, William, Jr., and W. H. Clarke, Lockport, N. Y. Derrick for use on dredging-machines.....	357,520	Feb. 8	1123	294	38	640
Butler, William H. (See Kinney and Butler.)						
Butler, William H. (See Palmer and Butler.)						
Butler, William H. (See Smith, Samuel, assignor.)						
Butler, William H., Brooklyn, N. Y., assignor to Kinney Tobacco Company, of New York. Box.....	374,825	Dec. 13	940	245	41	1239
Butler, William P., Chicago, Ill. Vapor-burner.....	362,929	May 17	1228	327	39	715
Butman, Fred P., Holbrook, assignor to himself and E. H. Fennessy, Newton, Mass. Stocking-supporter.....	372,401	Nov. 1	172	49	41	502
Butman, John, Milan, Ohio. Potato-digger.....	355,637	Jan. 4	463	124	38	91
Butterfield, Ephraim, Wrights Corners, Ind., assignor to Whitman Agricultural Company, St. Louis, Mo. Baling-press.....	362,875	May 10	1145	307	39	693
Butterfield, Finley R., <i>et al.</i> (See Eastman, William H., assignor.)						
Butterfield, Reuben J., Westford, Mass. Carriage-jack.....	369,433	Sept. 6	168	49	40	1063
Butterfield, William, assignor to D. M. Osborne & Company, Auburn, N. Y. Sheaf-carrier for grain-binders.....	362,930	May 17	1229	327	39	715
Butterfield, William, assignor to D. M. Osborne & Company, Auburn, N. Y. Cord-tying mechanism for grain-binders.....	365,044	June 21	1218	{ 321 322 }	{ 39 39 }	1332
Butterfield, William, assignor to D. M. Osborne & Company, Auburn, N. Y. Harvester-reel.....	366,301	July 12	751	203	40	149
Butterfield, William, assignor to D. M. Osborne & Company, Auburn, N. Y. Cord-tyer for grain-binders.....	373,220	Nov. 15	1432	378	41	752
Butterworth, James, Rochdale, county of Lancaster, England. Belt-fastener.....	366,924	July 19	1603	429	40	320
Butterworth, John, Jr. (See Butterworth, William H. and J., Jr.)						
Butterworth, Robert, Trenton, N. J. Cider-press.....	368,276	Aug. 16	1375	362	40	728
Butterworth, Robert, Somerville, assignor of one-half to Reversible Collar Company, Boston, Mass. Supplemental bosom.....	371,668	Oct. 18	1314	341	41	275
Butterworth, William H. and J., Jr., Trenton, N. J. Link for horse-power chains.....	372,252	Oct. 25	2201	564	41	453
Buttler, William, Pittsburg, Pa. Manufacture of glass tile.....	372,253	Oct. 25	2201	564	41	454
Buttler, William, assignor of one-half to J. H. Blair, Pittsburg, Pa. Ceiling-tile.....	357,144	Feb. 1	598	153	38	531
Büttner, Wilhelm, Gummersbach, Prussia, Germany. Apparatus for extracting fat from bones.....	360,996	Apr. 12	874	221	39	165
Button, Alphonzo, Grand Rapids, Mich. Automatic dry closet.....	364,988	June 14	1136	298	39	1307
Button, Benj. G., <i>et al.</i> (See Kittell, Ernest A., assignor.) (Reissue.)						
Buttrick, Charles G., and T. B. Flanders, Holyoke, Mass. Bolster for spinning-spindles.....	361,611	Apr. 19	1738	449	39	340
Butts, Alexander P., Brockport, N. Y. Sash-fastener.....	362,931	May 17	1231	328	39	716
Butts, J. Baptist, Philadelphia, Pa. Car-coupling.....	356,569	Jan. 25	1823	477	38	370
Butts, John B., Kansas City, Mo. Car-coupling.....	371,123	Oct. 4	557	142	41	110
Butts, Lucien A., Russell, Iowa. Wire-fence tightener.....	363,314	May 17	1751	459	39	817
Butts, Stephen B. (See Simon, Alfred W., assignor.)						
Butz, Samuel, Easton, Pa. Shirt and method of attaching supplemental bosoms thereto.....	355,638	Jan. 4	465	124	38	92
Buxton, Anthony P. (See Comstock and Buxton.)						
Buxton, Levi W., assignor of two-thirds to C. H. Lindsey and G. E. Small, Nashua, N. H. Coffee-filter.....	369,838	Sept. 13	731	195	40	1182

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Buyer, Jacob, Sandusky, Ohio. Chisel-holder for file-cutting machines	369,690	Sept. 13	523	145	40	1144
Buzby, C. Ernest, assignor to H. B. and F. A. Riehle, Philadelphia, Pa. Weighing-beam for testing-machines, scales, &c	368,514	Aug. 16	1706	455	40	792
Buzzell, John F., assignor to W. P. Davis, Boston, Mass. Friction-hinge for mirrors	359,555	Mar. 15	1649	421	38	1222
Byam, Eber C., assignor of two-thirds to J. A. Stewart and J. S. Baker, Rochester, N. Y. Curtain-fixture	361,206	Apr. 12	1185	300	39	224
Byam, Eber C., assignor of two-thirds to J. A. Stewart and J. S. Baker, Rochester, N. Y. Sash-lift	363,726	May 24	2358	612	39	942
Byam, Eber C., assignor of two-thirds to J. A. Stewart and J. S. Baker, Rochester, N. Y. Lock-hinge	366,151	July 5	543	146	40	102
Byam, Eber C., assignor of two-thirds to J. A. Stewart and J. S. Baker, Rochester, N. Y. Sash-fastener	367,132	July 26	1891	512	40	381
Byam, George A., <i>et al.</i> (See Helme, Jeremiah E., assignor.)						
Byam, Sewall T. J., assignor to New Haven Watch Company, New Haven, Conn. Stem winding and setting watch	360,415	Apr. 5	17	5, 6	39	5
Byam, Sewall T. J., assignor to New Haven Watch Company, New Haven, Conn. Tool for setting pallet-jewels	360,416	Apr. 5	19	6, 7	39	6
Byers, Benjamin F., <i>et al.</i> (See Chambers, Joseph H., assignor.)						
Byfield, John, assignor to Byfield Manufacturing Company, Lowell, Mass. Circular-knitting machine	359,556	Mar. 15	1649	422	38	1222
Byfield Manufacturing Company. (See Byfield, John, assignor.)						
Byington, Albert, Rochelle, Ill. Harrow	359,995	Mar. 29	2354	{ 593 } 594	{ 38 } 39	1373
Byler, Tyre A., San Francisco, Cal. Hoisting-machine	362,489	May 10	592	167	39	593
Byllesby, Henry M. (See Pope, Byllesby, and Lange.)						
Byllesby, Henry M. (See Westinghouse, Byllesby, Shallenberger, and Schmid.)						
Byllesby, Henry M. (See Westinghouse, Byllesby, Shallenberger, Schmid, and Hartley.)						
Byllesby, Henry M., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Electric converter	366,375	July 12	855	229	40	168
Byllesby, Henry M., Roselle, N. J., assignor to G. Westinghouse, Jr., Pittsburg, Pa. System of electrical distribution	373,009	Nov. 8	1099	293	41	681
Byllesby, Henry M., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Electric meter	373,010	Nov. 8	1100	{ 293 } 294	{ 41 } 41	681
Byllesby, Henry M., and P. Lange, assignors to G. Westinghouse, Jr., Pittsburg, Pa. Circuit-controller for electric circuits	366,374	July 12	854	229	40	168
Byllesby, Henry M., Pittsburg, and O. B. Shallenberger, Rochester, assignors to G. Westinghouse, Jr., Pittsburg, Pa. System or circuit for electric distribution	366,376	July 12	855	230	40	169
Byram, Theodore P. (See McCarron, Michael A., assignor.)						
Byring, Ole H., San Francisco, Cal. Walking-cane	373,049	Nov. 15	1164	311	41	703
Byrkit, Edwin M., Michigan City, assignor of three-fourths to A. A. Adair, J. H. Murry, and H. Coburn, Indianapolis, Ind. Sheathing and lath machine	357,521	Feb. 8	1124	294	38	640
Byrkit, Edwin M., Michigan City, assignor of three-fourths to A. A. Adair, J. H. Murry, and H. Coburn, Indianapolis, Ind. Clapboard-marking device	360,997	Apr. 12	877	221	39	166
Byrne, Luke B., Providence, R. I. Button, stud, locket, or other article of jewelry	373,514	Nov. 22	1893	502	41	850
Byrne, Luke B., Providence, R. I. Making parts of buttons	373,515	Nov. 22	1894	502	41	850
Byrne, Matthew T., Colorado, Tex. Door-check	367,742	Aug. 2	590	160	40	562
Byrne, Patrick, Nashville, Tenn. Hatchway-operating device	365,791	July 5	38	11	40	9
Byrne, Samuel, Brown's Valley, Cal. Car-coupling	372,893	Nov. 8	926	250	41	650
Byrnes, James, National Soldiers' Home, Va. Inhaler	366,759	July 19	1393	372	40	280
Byrns, Oscar A., assignor to Valley Iron Works, Appleton, Wis. Pulp-grinding machine	361,207	Apr. 12	1186	300	39	224
Byron, John M., <i>et al.</i> (See Rogers, Richard J., assignor.)						
Bywater, Levi, assignor to J. E. Hanifen & Co., Philadelphia, Pa. Knitted fabric	374,888	Dec. 13	1025	268	41	1255
Bywaters, Joseph K., Paris, Tex. Car-coupling	370,006	Sept. 13	999	263	40	1230
Cable, Edward J. (See Keller, Jeremiah, assignor.)						
Cable, Julius C. (See Coup, John, assignor.)						
Cables, Hartley A., Rochester, N. Y. Button, tuft, or ornament	373,128	Nov. 15	1276	340	41	725
Cabot Brothers. (See Young, Gilbert, assignor.)						
Cabot, Samuel, Boston, Mass. Process of and apparatus for making carbon dioxide	359,996	Mar. 29	2357	594	38	1373
Cabus, Joseph, Jr. (See Renner, Fredrick M., assignor.)						
Cadbury, Joel, <i>et al.</i> (See McIlvenna and Rollason, assignors.) (Reissue.)						
Cadwallader, Charles H. (See Smith, George W., assignor.)						
Cady, Edward B., Jackson, Mich. Stiffening for corsets	373,720	Nov. 22	2178	{ 582 } 583	{ 41 } 41	906
Cady, Edward W., Mason City, Iowa. Pitman	374,449	Dec. 6	401	104	41	1122
Cady, Ernest. (See Gray, William, assignor.)						
Cady, Frank P., assignor to F. P. Wheeler, Chicago, Ill. Wire-fence stay	368,807	Aug. 23	2119	561	40	880
Cagle, Byron E., Sterling, Kans. Wooden tub	360,371	Mar. 29	2946	749	38	1480
Cagle, Canova T., Beersheba Springs, assignor of one-half to J. L. Weakley, Nashville, Tenn. Spool-holder	358,727	Mar. 1	455	111	38	988
Cahill, John, New York, N. Y. Window-blind	368,808	Aug. 23	2120	561	40	880
Cahill, Miles S., Boston, Mass. Bottle-stopper	370,045	Sept. 20	1061	281	40	1250
Cahill, Patrick J., Leeds, Mass. Lathe	370,604	Sept. 27	1883	{ 499 } 500	{ 40 } 40	1409
Cahill, Thaddeus, assignor of two-thirds to T. Cahill, Oberlin, Ohio. Piano-action	359,557	Mar. 15	1651	422	38	1222
Cahill, Thaddeus, assignor of two-thirds to T. Cahill, Oberlin, Ohio. Organ	359,842	Mar. 22	2102	{ 532 } 533	{ 38 } 38	1320
Cahill, Timothy. (See Cahill, Thaddeus, assignor.)						
Cahoone, Edwin R., Newark, N. J. Harness-mounting	357,575	Feb. 15	1219	321	38	667
Cahoone, Edwin R., Newark, N. J. Harness-mounting	361,811	Apr. 26	2035	529	39	402
Cahoone, Edwin R., Newark, N. J. Harness-mounting	374,344	Dec. 6	250	67	41	1094
Cain, Cornelius T. (See McGill, William A., assignor.)						
Cain, John S., <i>et al.</i> (See Harding, Daniel J., assignor.)						
Cain, Paul, <i>et al.</i> (See Harding, Daniel J., assignor.)						
Cairncross, John H., Toronto, Ontario, Canada. Folding bed	364,214	June 7	23	6, 7	39	1092
Cairns, James W. (See Vincent and Cairns.)						
Cairns, Peter J., Cleveland, Ohio. Copying-machine	363,799	May 31	2461	639	39	968
Cairns, Thomas, <i>et al.</i> (See Duke, William F., assignor.)						
Calder, David, and J. D. Maclay, Louisville, Ky. Amalgamating-machine	371,031	Oct. 4	431	108	41	86
Calder, James, Dundee, county of Forfar, Scotland. Fishing-reel	360,758	Apr. 5	510	{ 131 } 132	{ 39 } 39	96
Caldwell, Albert N., Lebanon, Ind. Tension device for use in making fences	361,395	Apr. 19	1443	373	39	284
Caldwell, Alfred F., Chicago, Ill. Wire fence	372,060	Oct. 25	1909	492	41	399
Caldwell, Alfred F., Chicago, Ill. Machine for making wire screens	374,291	Dec. 6	164	43	41	1078
Caldwell, Benjamin F., Wheeling, W. Va. Stove-pipe	361,861	Apr. 26	2118	549	39	418
Caldwell, Benjamin F., Wheeling, W. Va. Packing and nesting stove-pipes	361,926	Apr. 26	2203	572	39	434

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Caldwell, Benjamin F., Wheeling, W. Va. Sheet-metal shingle.....	366,925	July 19	1604	{ 429 430 }	{ 40 }	320
Caldwell, Benjamin F., and W. F. Peterson, Wheeling, W. Va. Metallic roofing for rail- way-cars.....	370,680	Sept. 27	1993	530	40	1430
Caldwell, Benjamin F., and W. F. Peterson, Wheeling, W. Va. Metallic measuring-vessel.....	370,681	Sept. 27	1994	530	40	1431
Caldwell, Benjamin F., and W. F. Peterson, Wheeling, W. Va. Machine for corrugating sheet metal.....	370,682	Sept. 27	1995	531	40	1431
Caldwell, Benjamin F., and W. F. Peterson, Wheeling, W. Va. Cap-former for standing seams of roofing.....	373,335	Nov. 15	1595	421	41	782
Caldwell, Benjamin F., and W. F. Peterson, Wheeling, W. Va. Painting sheet-metal roof- ing.....	374,112	Nov. 29	2739	735	41	1022
Caldwell, Charles C. (See Jones and Mains, assignors.)						
Caldwell, Dexter J., Gunn, Va. Car-coupling.....	359,710	Mar. 22	1896	482	38	1284
Caldwell, Homer M., assignor to G. H. Harrington and W. A. Richardson, Worcester, Mass. Revolving fire-arm.....	370,926	Oct. 4	282	69	41	56
Caldwell, John A., Bay Ridge, assignor to J. B. Cook, Troy, N. Y. Steam-boiler.....	359,558	Mar. 15	1655	423	38	1223
Caldwell, John P., Gainesville, Ga. Plaiting-board.....	355,503	Jan. 4	270	71	38	54
Caldwell, John P., and J. C. Wolfe, Gainesville, Ga. Washing-machine.....	372,114	Oct. 25	1992	511	41	413
Caldwell, Oliver, Chicago, Ill. Manufacture of conveyer-flights.....	368,569	Aug. 23	1781	474	40	816
Caldwell, Skillman H., and R. Quatermass, Moline, Kans. Safety-platform for cars.....	356,920	Feb. 1	246	68	38	467
Calef, Joseph W., assignor to G. W. Kennedy, North Easton, Mass. Hoe.....	362,876	May 10	1146	308	39	693
Caler, Francis M., Pittsburg, Pa. Wood-working machine.....	361,261	Apr. 19	1261	322	39	251
Calhoun, Wilson, Port Royal, Pa. Log-hoisting machine.....	366,201	July 12	614	167	40	124
Calif, Stephen E., Wilson, Mo. Sulky-plow.....	356,746	Feb. 1	10	4	38	425
Calkins, Abram U. (See Sharp and Calkins.)						
Calkins, Almon H., Evanston, Ill. Latch-operating device.....	365,236	June 21	1492	392	39	1383
Calkins, Gary G. (See Gurney, Frank A., assignor.)						
Calkins, Nathan O., Elm Creek, Nebr. Wagon-box lock.....	364,801	June 14	863	226	39	1256
Calkins, Veranda A. (See Faatz and Calkins.)						
Call, Charles P., Boyne, Mich. Self-timing photographic-camera shutter.....	368,930	Aug. 30	2300	611	40	924
Call, Stephen W. (See Brown, Henry D., assignor.)						
Callahan, James W., New Iberia, La. Advertising medium.....	365,907	July 5	211	54	40	41
Callahan, James W., New Iberia, La. Stave-crozing machine.....	367,890	Aug. 9	806	{ 217 218 }	{ 40 }	613
Callahan, Robert, <i>et al.</i> (See Ennis, Henry J., assignor.)						
Callanan, James. (See Engle, Andrew, assignor.)						
Callard, John W., Toledo, Ohio. Water-filter.....	360,850	Apr. 12	645	170	39	127
Calmeyn, Joseph, Chicago, Ill. Brake-handle.....	369,227	Aug. 30	2694	715	40	1002
Calone, Ettore, and F. Danton; said Danton assignor to M. E. Bourgeois, New York, N. Y. Broiling-range.....	360,372	Mar. 29	2947	749	38	1480
Calumet Fastener Company. (See Davenport, Benjamin R., assignor.)						
Calverley, Joseph, <i>et al.</i> (See Marion, Joseph, assignor.)						
Calvert, William H. (See Johnson, Abraham K., assignor.)						
Cambria Iron Company. (See Coffin, John, assignor.)						
Cambria Iron Company. (See Short, John N., assignor.)						
Cambria Iron Company. (See Stammer, Fred W., assignor.)						
Camburn, Jacob C., St. Louis, Mo. School-furniture.....	370,314	Sept. 20	1438	385	40	1320
Camel, Léon, Lyons, France. Thread-forming device for silk-spinning machines.....	361,129	Apr. 12	1061	268	39	202
Cameron, Ezra G., assignor of one-half to D. M. Foote, Charlotte, Mich. Stove-pipe joint and thimble-lock.....	356,706	Jan. 25	2009	527	38	406
Cameron Harrow and Wagon Company. ((See Judson and Cameron, assignors.)						
Cameron, James W., <i>et al.</i> (See Myers, Henry C., assignor.)						
Cameron, James W., assignor to D. J. Boehm, New York, N. Y. Machine for cutting cigar- wrappers.....	355,918	Jan. 11	886	232	38	180
Cameron, John, <i>et al.</i> (See Paramore, John E., assignor.)						
Cameron, John H. (See Frase and Cameron.)						
Cameron, Jordan, Penn Run, Pa. Car-coupling.....	366,713	July 19	1332	356	40	269
Cameron, Joseph. (See Judson and Cameron.)						
Cameron, Joseph, and C. H. Allen, East Saginaw, Mich. Saw-tooth.....	365,363	June 28	1685	439	39	1431
Cameron, Joseph E., River Junction, Fla. Car-wheel replacer.....	366,302	July 12	752	204	40	150
Cameron, William A. (See Wing, Daniel S., assignor.)						
Camp, Bushrod H., assignor of one-half to W. H. H. Davis, Boston, Mass. Surgical instru- ment.....	358,539	Mar. 1	189	44	38	937
Camp, David D., Stoughton, Wis. Foot-power.....	356,921	Feb. 1	247	68	38	467
Camp, Julius F., Columbus, Ohio. Store-service apparatus.....	373,268	Nov. 15	1491	394	41	763
Camp, Julius F., assignor of one-half to H. M. Clark, Columbus, Ohio. Store-service ap- paratus.....	370,180	Sept. 20	1260	335	40	1287
Camp, Walter C., New York, N. Y., assignor to New Haven Clock Company, New Haven, Conn. Cover for clocks.....	362,932	May 17	1232	328	39	716
Campbell, Alexander, Brooklyn, N. Y. Hanging device for picture-frames.....	370,765	Oct. 4	19	5	41	6
Campbell, Alva E. (See King, Phineas F., assignor.)						
Campbell, Alvin W., <i>et al.</i> (See Davis, William G., assignor.)						
Campbell, Andrew, assignor to Hat Machine Company, Brooklyn, N. Y. Expanding holder or block for hat-pouncing machines.....	365,575	June 28	2017	526	39	1495
Campbell, Andrew, assignor to Hat Machine Company, Brooklyn, N. Y. Combined hat sweat and ventilator.....	365,576	June 28	2019	526	39	1496
Campbell, Andrew, assignor to Hat Machine Company, Brooklyn, N. Y. Sweat-band for hats.....	365,577	June 28	2021	527	39	1496
Campbell, Andrew, assignor to Hat Machine Company, Brooklyn, N. Y. Hat-sweat.....	365,578	June 28	2022	527	39	1496
Campbell, Andrew, assignor to Hat Machine Company, Brooklyn, N. Y. Manufacture of hats.....	368,188	Aug. 16	1232	329	40	701
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Speed- regulator.....	361,128	Apr. 12	1057	268	39	201
Campbell, Andrew T., Veedersburg, Ind. Wheel-cultivator.....	356,922	Feb. 1	248	68, 69	38	467
Campbell Burner Company. (See Todd, Cornelius B., assignor.)						
Campbell, Calvin A., Montreal, Quebec, Canada. Paper-file.....	371,547	Oct. 18	1145	298	41	242
Campbell, Charles H., Watertown, N. Y. Delivery mechanism for cylinder printing-ma- chines.....	361,262	Apr. 19	1262	322	39	251
Campbell, Charles W., J. J. Hill, and W. E. Dodd, Rose Mill, Va. Reel for displaying and measuring dry goods.....	362,490	May 10	593	{ 167 168 }	{ 39 }	593
Campbell, Christy M. A., Ottawa, Ontario, Canada. Dress-shield.....	374,040	Nov. 29	2633	706	41	1001
Campbell, Collingwood, West Bay City, assignor of one-half to J. E. Thomas, Bay City, Mich. Saw-swaging machine.....	355,379	Jan. 4	113	31	38	21
Campbell, David R., and N. M. Hetzler, Ellensburg, Wash. Ter. Nut-lock.....	365,165	June 21	1402	370	39	1365

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Campbell, Duncan, Fort Cauley, Auckland, New Zealand. Yard for ships. &c.....	361,049	Apr. 12	946	239	39	179
Campbell, Duncan H., assignor to Campbell Machine Company, Pawtucket, R. I. Wax-thread sewing-machine.....	374,934	Dec. 20	1109	289 290 291	41	1280
Campbell, Duncan H., assignor to Campbell Machine Company, Pawtucket, R. I. Machine for waxing thread and winding it into cops.....	374,935	Dec. 20	1114	291 292	41	1281
Campbell, Duncan H., assignor to Campbell Machine Company, Pawtucket, R. I. Take-up device for wax-thread sewing-machines.....	374,936	Dec. 20	1116	292 293	41	1281
Campbell, Duncan H., assignor to Campbell Machine Company, Pawtucket, R. I. Sewing-machine shuttle.....	374,937	Dec. 20	1122	293 294	41	1282
Campbell Electric Company. (See Campbell, Henry F., assignor.)						
Campbell, Elizabeth A. P., New York, N. Y. Fastening for doors.....	366,377	July 12	856	230	40	169
Campbell, Gardiner and G. G., Milwaukee, Wis. Water-valve.....	362,059	May 3	11	4	39	475
Campbell, George, assignor of one-half to L. Frankel, Toronto, Ontario, Canada. Pulley..	362,569	May 10	702	196	39	612
Campbell, George G. (See Campbell, Gardiner and G. G.)						
Campbell, George G., Milwaukee, Wis. Catch-basin cover.....	374,393	Dec. 6	314	83	41	1106
Campbell, George P., assignor of one-half to J. O. Sloan, Cincinnati, Ohio. Car-brake.....	361,576	Apr. 19	1689	436	39	330
Campbell, Henry F., Concord, N. H., assignor to Campbell Electric Company, of New Hampshire. Electrical conductor.....	369,394	Sept. 6	117	34	40	1055
Campbell, Hugh, Elland, county of York, England. Gas-engine.....	367,184	July 26	1957	528 529	40	394
Campbell, J. Addison, Philadelphia, Pa. Machine for cutting double pile fabrics.....	358,014	Feb. 22	1842	487	38	788
Campbell, J. Addison, Philadelphia, Pa. Loom for weaving looped or terry fabrics.....	373,175	Nov. 15	1357	359	41	738
Campbell, James, Harrison, Ohio. Seed-planter.....	369,585	Sept. 6	372	103	40	1105
Campbell, James D., Belle Centre, Ohio. Fence-post.....	368,067	Aug. 9	1062	283	40	661
Campbell, James L., West Elizabeth, Pa. Thermostat.....	357,463	Feb. 8	1037	274	38	623
Campbell, James L., West Elizabeth, Pa. Thermostat.....	358,728	Mar. 1	456	111	38	988
Campbell, James L., West Elizabeth, Pa. Incubator.....	372,115	Oct. 25	1994	511 512	41	414
Campbell, James T., Sugar Grove, Pa. Clothes-washer.....	358,646	Mar. 1	336	81	38	966
Campbell, Joseph F., Philadelphia, Pa. Apparatus for sharpening scissors.....	369,771	Sept. 13	625	169	40	1161
Campbell, London, Alexandria, Va. Float for water-gage glass tubes.....	362,719	May 10	926	253	39	654
Campbell Machine Company. (See Campbell, Duncan H., assignor.)						
Campbell, Marvin, South Bend, Ind. Hammock-stretcher.....	374,776	Dec. 13	865	227	41	1225
Campbell, Matthew C., Philadelphia, Pa. Tramway and car.....	373,439	Nov. 22	1757	466	41	824
Campbell, Neil, assignor to Brooklyn Railway Supply Company, Brooklyn, N. Y. Snow-sweeper.....	375,338	Dec. 27	1678	441	41	1397
Campbell, Peter, Carrolltown, Pa. Car-coupling.....	373,336	Nov. 15	1596	421	41	783
Campbell, Peter C., Brooklyn, N. Y. Air-ship.....	362,605	May 10	761	210	39	621
Campbell, Robert B., and F. E. House, Marion, Iowa. Freight-car.....	365,461	June 28	1839	478	39	1460
Campbell, Sanford K. (See Aab and Campbell.)						
Campbell, William, New York, N. Y. Wall-paper.....	358,647	Mar. 1	338	81	38	966
Campbell, William, assignor to W. F. Putnam, Cleveland, Ohio. Tilting valve for dividing grain, &c.....	359,918	Mar. 22	2228	561	38	1343
Campbell, William, assignor to G. R. Wight and F. P. Bassett, New York, N. Y. Refrigerator.....	362,200	May 3	193	57	39	511
Campfield, Matthew E., Allegheny, assignor to A. F. A. Brown, Pittsburg, Pa. Wrench.....	371,302	Oct. 11	803	205	41	165
Campiche, Louis, assignor to Mermod Frères, Ste. Croix, Switzerland. Music-box.....	374,394	Dec. 6	315	84	41	1106
Canaday, Nathan F. (See Gough, Speakman, and Canaday.)						
Canan, James, Port Colborne, Ontario, Canada. Bottle.....	364,477	June 7	384	104	39	1160
Canda, Ferdinand E., New York, N. Y. Watering apparatus for cattle-cars.....	363,115	May 17	1492	395	39	766
Canda, Ferdinand E., New York, N. Y. Car-truck.....	369,098	Aug. 30	2539	673 674	40	969
Candee, Charles E., New York, N. Y. Cuff-holder.....	369,160	Aug. 30	2611	693	40	983
Candee, Charles E., New York, assignor to himself and A. G. Story, Little Falls, N. Y. Wheel and axle.....	366,454	July 12	943	257	40	188
Candee, Charles E., New York, assignor to himself and A. G. Story, Little Falls, N. Y. Mold for axle-boxes.....	366,455	July 12	945	258	40	188
Candee, Charles E., New York, assignor to himself and A. G. Story, Little Falls, N. Y. Car-axle.....	366,618	July 12	1193	319	40	235
Candee, Charles E., New York, assignor to himself and A. G. Story, Little Falls, N. Y. Car-axle box.....	366,760	July 19	1394	373	40	280
Candee & Co., L. (See Watkinson, George, assignor.)						
Candee, William N., Buffalo, N. Y. Apparatus for preserving eggs.....	360,202	Mar. 29	2702	682 683	38	1436
Canfield, Charles G., Cleveland, Ohio. Vehicle-wheel.....	363,587	May 24	2151	558	39	904
Canfield, Henry O., assignor to Canfield Rubber Company, Bridgeport, Conn. Bustle.....	359,240	Mar. 15	1178	307	38	1135
Canfield, Henry O., assignor to Canfield Rubber Company, Bridgeport, Conn. Bustle.....	359,711	Mar. 22	1897	482	38	1284
Canfield, Henry O., assignor to Canfield Rubber Company, Bridgeport, Conn. Bustle.....	365,045	June 21	1220	322	39	1333
Canfield, Henry O., assignor to Canfield Rubber Company, Bridgeport, Conn. Bustle.....	370,181	Sept. 20	1262	335	40	1287
Canfield, Henry O., assignor to Canfield Rubber Company, Bridgeport, Conn. Bustle.....	370,927	Oct. 4	284	69	41	56
Canfield, Henry O., assignor to Canfield Rubber Company, Bridgeport, Conn. Bustle.....	372,116	Oct. 25	1999	512 513	41	414
Canfield, Henry O., assignor to Canfield Rubber Company, Bridgeport, Conn. Bustle.....	373,050	Nov. 15	1164	312	41	763
Canfield Rubber Company. (See Canfield, Henry O., assignor.)						
Canfield Rubber Company. (See Seymour, Henry A., assignor.)						
Canfield Rubber Company. (See Taylor, Thomas P., assignor.)						
Canfield Rubber Company. (See White, Thomas, assignor.)						
Canfield, Stephen P., assignor of one-half to A. B. Stevens, Richmondville, N. Y. Fire-extinguisher for car-heaters.....	365,237	June 21	1494	393	39	1383
Canning, James, Montpelier, Vt. Belt-shifter.....	367,891	Aug. 9	810	218	40	614
Canning, William P., assignor to Lowell Machine Shop, Lowell, Mass. Apparatus for sizing yarn.....	360,654	Apr. 5	372	94, 45	39	71
Cannon, Charlotte C., London, Ontario, Canada. Dish-drainer.....	363,045	May 17	1396	369	39	748
Cannon, Clinton D., Battle Creek, Mich. Butter or lard cutter.....	366,567	July 12	1116	299	40	222
Cannon, Edward A., assignor of one-half to C. B. Hanna, Minneapolis, Minn. Label-holder.....	374,395	Dec. 6	316	84	41	1106
Cannon, Fred C., New Haven, Conn. Elevator-stop.....	374,396	Dec. 6	317	84	41	1107
Cannon, George W., Poughkeepsie, N. Y. Dumb-waiter.....	361,263	Apr. 19	1264	323	39	252
Cannon, Hugh C., and J. P. Canty, McArthur, Ohio. Railway-switch.....	361,130	Apr. 12	1063	269	39	202
Cannon, Hugh C., and A. E. McGrath, McArthur, Ohio. Adjustable bulletin-board.....	364,895	June 14	1002	262	39	1282
Cannon, Wilson B., Akron, Ohio. Self-closing gate for cashiers' windows.....	368,752	Aug. 23	2043	541	40	865
Cant, James, Orr Bridge, Thornton, county of Fife, Scotland. Regulator for flues.....	355,919	Jan. 11	887	232	38	180
Cantrell, William B., assignor of two-thirds to E. Y. Jeffery and S. W. Rice, Portland, Oreg. Latch.....	355,680	Jan. 11	527	139	38	112

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Cantrell, William B., assignor of two-thirds to E. Y. Jeffery and S. W. Rice, Portland, Oreg. Latch.....	371,420	Oct. 11	970	251	41	197
Canty, Joseph P. (See Cannon and Canty.)						
Capeling, Albert A., Oneida, N. Y. Vehicle-spring.....	365,579	June 28	2023	{ 527 528 }	{ 39 }	1496
Capers, John S., New Orleans, La. Automatic electrical signal-coupler.....	357,165	Feb. 1	627	161	38	537
Capers, John S., New Orleans, La. Fare-box.....	359,346	Mar. 15	1317	342	38	1160
Capewell, George J., Cheshire, Conn. Nail-extractor.....	358,540	Mar. 1	190	44	38	937
Capewell, George J., Cheshire, Conn. Clothes-drier.....	360,275	Mar. 29	2813	715	38	1458
Capital Wagon Company. (See Tyler, Morris S., assignor.)						
Card, George F., assignor to G. F. Card Manufacturing Company, Covington, Ky. Electric motor.....	364,086	May 31	2866	743	39	1045
Card, George F., Covington, Ky., assignor to H. K. Lindsey, Cincinnati, Ohio. Electro-magnetic brake.....	357,576	Feb. 15	1219	321	38	608
Card, George F., Covington, Ky., assignor to H. K. Lindsey, Cincinnati, Ohio. Circuit system for electric brakes.....	357,760	Feb. 15	1501	392	38	718
Card, George F., Covington, Ky., assignor to H. K. Lindsey, Cincinnati, Ohio. Car-brake.....	357,976	Feb. 15	1787	470	38	772
Card, George F., Covington, Ky., assignor to H. K. Lindsey, Cincinnati, Ohio. Governor for electro-magnetic brake-circuits.....	369,917	Sept. 13	851	225	40	1204
Card, George F., Covington, Ky., assignor to H. K. Lindsey, Cincinnati, Ohio. Railway-car brake.....	369,918	Sept. 13	852	{ 225 226 }	{ 40 }	1205
Card, George F., Covington, Ky., assignor to H. K. Lindsey, Cincinnati, Ohio. Circuit-system for electric brakes.....	372,598	Nov. 1	460	{ 123 124 }	{ 41 }	557
Card, George F., Covington, Ky., assignor to H. K. Lindsey, Cincinnati, Ohio. Coupling for electric brakes.....	372,599	Nov. 1	463	124	41	557
Card Manufacturing Company, George F. (See Card, George F., assignor.)						
Card, Milton E. (See Cruttenden and Card.)						
Card, William L., La Crosse, Wis., assignor to Tierra Seca Mining Company, St. Louis, Mo. Separator.....	359,498	Mar. 15	1554	397	38	1204
Card, William L., La Crosse, Wis., assignor to Tierra Seca Mining Company, East St. Louis, Ill. Concentrator.....	372,741	Nov. 8	674	{ 184 185 }	{ 41 }	607
Card, William L., La Crosse, Wis., assignor to Tierra Seca Mining Company, East St. Louis, Ill. Crushing or pulverizing mill.....	372,742	Nov. 8	677	185	41	607
Cardell, William S., Fred, Chickasaw Nation, Ind. Ter. Stirrup.....	365,238	June 21	1496	393	39	1384
Carden, Patrick L., Dixon, Cal. Music-leaf turner.....	356,983	Feb. 1	336	89	38	485
Carey, Augustus C., Boston, Mass. Apparatus for use in copying telegraph-messages and the like.....	370,683	Sept. 27	1997	531	40	1431
Carey, John B., Brooklyn, N. Y. Railway-gate.....	373,642	Nov. 22	2072	553	41	884
Carey, John B., Brooklyn, N. Y. Railway-gate.....	373,643	Nov. 22	2073	{ 553 554 }	{ 41 }	884
Carey, Orrin M., Hegewisch, Ill., assignor to United States Rolling Stock Company. Arch-bar jig.....	362,201	May 3	194	57	39	511
Carey, Philip, Cincinnati, Ohio. Machine for constructing two-ply or three-ply roofing.....	362,202	May 3	194	58	39	511
Carhart, Lyman B. (See Weber, Fred. A., assignor.)						
Carl, Rius. (See Meador and Carl.)						
Carlile, Jolin H., Greeley, Kans. Roller washing-machine.....	367,700	Aug. 2	517	142	40	548
Carlinet, John G., Philadelphia, Pa. Sculpturing apparatus.....	361,131	Apr. 12	1064	269	39	202
Carlisle, L. T. (See Brooks, George H., assignor.)						
Carll, Addison B. (See Johnston and Carll.)						
Carlson, August F., Chicago, Ill. Portable grain-conveyer.....	363,282	May 17	1710	447	39	809
Carlson, Conrad, Brooklyn, N. Y. Hod.....	375,120	Dec. 20	1390	361	41	1331
Carlson, Gotfrid, Chicago, Ill. Adjustable hood for cooking-stoves.....	309,161	Aug. 30	2612	693	40	985
Carlton, William C., Baker County, Oreg. Pencil.....	357,063	Feb. 1	451	120	38	505
Carlton, Winfield S., Big Run, Pa. Door-sill.....	364,896	June 14	1003	263	39	1283
Carman, Charles L., Chicago, Ill. Brick-machine.....	374,938	Dec. 20	1125	{ 294 295 }	{ 41 }	1282
Carmer, Grant D., Odebolt, Iowa. Combined seeder and harrow.....	369,395	Sept. 6	118	35	40	1055
Carmichael, Thomas, What Cheer, Iowa. Mine-door-operating mechanism.....	358,381	Feb. 22	2361	627	38	885
Carmody, John, assignor of one-half to W. McGuinness, Springfield, Ohio. Swing.....	372,117	Oct. 25	2001	513	41	415
Carmont, William H., Manchester, county of Lancaster, England. Wheel-tire.....	364,989	June 14	1137	298	39	1307
Carnahan, James S. G., Louisville, Ky., assignor of one-half to A. B. Dittenhoefer, Mansfield, Ohio. Thermometric-valve controller.....	369,162	Aug. 30	2613	{ 693 694 }	{ 40 }	986
Carnahan, Francis M., Adrian, Mich. Stump-sawing machine.....	363,588	May 24	2153	558	39	904
Carnegie, Phipps & Co. (See Shallenberger, Frank L., assignor.)						
Carnegie, Phipps & Co. (See Simpson, James H., assignor.)						
Carnell, Franklin L., et al. (See Bacon, Alfred, assignor.)						
Carnovsky, Walter S., Kingston, Ontario, Canada. Weather-strip.....	371,421	Oct. 11	971	252	41	197
Carnrick, John, New York, N. Y. Preparing powdered milk.....	357,465	Feb. 8	1039	275	38	624
Carnrick, John, New York, N. Y. Soluble food for infants and invalids.....	375,601	Dec. 27	2039		41	1465
Carolan, Patrick, Cleveland, Ohio. Life-saving apparatus.....	375,047	Dec. 20	1279	334	41	1310
Carothers, D. D., et al. (See Brown, Henry, assignor.)						
Carpenter, Amos H., Stockton, Cal. Feathering blades of paddle and other wheels.....	371,819	Oct. 18	1541	398	41	321
Carpenter, Benjamin F., Roselle, N. J. Underground railway and pipe-subway.....	360,655	Apr. 5	374	95	39	71
Carpenter, Charles C., New York, N. Y. Bustle.....	366,378	July 12	858	230	40	169
Carpenter, Charles J., et al. (See Carpenter, Elial F., assignor.)						
Carpenter, Daniel A., New York, N. Y. Safety-pin.....	363,208	May 17	1615	424	39	791
Carpenter, Daniel A., New York, N. Y. Glove-fastener.....	370,753	Sept. 27	2105	558	40	1451
Carpenter, Daniel A., New York, N. Y., assignor to J. Jenkins, Montclair, N. J. Safety-pin.....	360,276	Mar. 29	2814	715	38	1458
Carpenter, Daniel A., New York, N. Y., assignor to Ball and Socket Fastener Company, Boston, Mass. Glove-fastener.....	373,797	Nov. 22	2289	613	41	926
Carpenter, Edmund H., Syracuse, N. Y. Spring-vehicle.....	356,617	Jan. 25	1895	498	38	384
Carpenter, Edwin S., Corinth, Vt. Breeching for harness.....	362,248	May 3	257	73	39	523
Carpenter, Elial F., assignor of two-thirds to F. T. Powell and C. J. Carpenter, Jamestown, N. Y. Gas-furnace for heating blanks.....	356,923	Feb. 1	250	69	38	467
Carpenter, George A., Providence, R. I. Coupling for electric conducting-wires.....	355,380	Jan. 4	116	31	38	25
Carpenter, George O., et al. (See Tirrell, Jacob P., assignor.)						
Carpenter, George W. (See Cilley, Ithiel J., assignor.)						
Carpenter, Herbert M., and J. Watson, Minneapolis, Minn. Submerged bracing for pile bridges.....	362,144	May 3	126	37	39	497
Carpenter, J. Fairfield, Berlin, Germany. Automatic electric air-brake.....	359,593	Mar. 22	1736	{ 441 442 }	{ 38 }	1253
Carpenter, J. Fairfield, Berlin, Germany. Pump-valve gear.....	368,648	Aug. 23	1883	502	40	835
Carpenter, J. Fairfield, Berlin, Germany. Pump-valve gear.....	368,649	Aug. 23	1884	503	40	836

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Carpenter, J. Fairfield, Berlin, Germany. Stop-cock for electro-pneumatic brake systems.	368,650	Aug. 23	1885	503	40	836
Carpenter, J. Fairfield, Berlin, Germany. Coupling for electro-pneumatic-brake systems.	370,605	Sept. 27	1885	500	40	1410
Carpenter, J. W. (See Maxon, Thomas, assignor.)						
Carpenter, Lewis E., <i>et al.</i> (See Barber, Orson R., assignor.)						
Carpenter, Oliver, Oakland, Cal. Rubber-dam clamp	371,669	Oct. 18	1315	341	41	276
Carpenter, Steven L., Moscow, Tenn. Gin-brake	362,491	May 10	594	168	39	593
Carpenter, Varnum F. (See Hohlfelder and Carpenter.)						
Carpenter, W. H., <i>et al.</i> (See Epping, Henry, assignor.)						
Carpenter, William B., Newark, N. J., assignor to Celluloid Novelty Company, New York, N. Y. Fishing-line reel	368,277	Aug. 16	1377	363	40	728
Carpenter, William H., Cadillac, Mich. Camera-tripod	370,240	Sept. 20	1334	{ 356 357 252 253 254 }	{ 40 41 }	1301 197
Carpentier, Jules, Paris, France. Mechanical key-board player	371,422	Oct. 11	972	{ 253 254 }	{ 41 }	197
Carpentier, Jules, Paris, France. Music-recording attachment for key-board instruments.	373,644	Nov. 22	2074	554	41	885
Carr, Charles, Boston, Mass. Feed-bag support	355,504	Jan. 4	271	72	38	55
Carr, Charles, Boston, Mass. Switch for suspension or cable roads	374,864	Dec. 13	993	{ 259 260 }	{ 41 }	1248
Carr, Charles, Boston, Mass. Track for suspension or cable roads	374,865	Dec. 13	995	260	41	1249
Carr, Charles, Boston, Mass. Cable-track road and tightener for same	374,866	Dec. 13	996	260	41	1249
Carr, Charles H., Portsmouth, N. H. Seam-rubber for boots and shoes	374,655	Dec. 13	695	183	41	1191
Carr, Edward E., Chalmers, Ind. Electric burglar-alarm	357,815	Feb. 15	1570	409	38	731
Carr, George W., New Brighton, N. Y. Plow	373,051	Nov. 15	1165	312	41	703
Carr, Howard, San Francisco, Cal., assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine-gun	368,130	Aug. 9	1141	302	40	676
Carr, John A. (See Launer, Charles, assignor.)						
Carr, John F. (See Williams and Carr.)						
Carr, John L. (See Swin and Carr.)						
Carr, John P., Sr., Brookston, Ind. Thrashing-machine	372,118	Oct. 25	2002	513	41	415
Carr, Joseph E., assignor of one-half to J. Y. Martindale, Frankford, Philadelphia, Pa. Door-check	359,202	Mar. 8	1115	290	38	1116
Carr, Joseph J., Wilkes-Barré, Pa. Molding car-wheels	360,086	Mar. 29	2513	{ 639 640 }	{ 38 }	1402
Carr, Joseph J., Wilkes-Barré, Pa. Pattern for molding	371,820	Oct. 18	1543	399	41	322
Carr, Joseph J., Wilkes-Barré, assignor of one-half to D. F. Sweeney, Hazleton, Pa. Sand-sifting machine	368,872	Aug. 23	2204	586	40	898
Carr, Lorin, <i>et al.</i> (See Fisher, Joseph L., assignor.)						
Carr, Millard F., Whitestown, Ind. Sack-tie	367,785	Aug. 9	666	179	40	585
Carr, Omar C., Grand Rapids, Ohio. Ditching and tile-laying machine	375,602	Dec. 27	2040	529	41	1465
Carr, Robert L., and M. C. Yarwood, assignors of one-third to A. E. Bosworth, Fall River, Mass. Steam-boiler	373,798	Nov. 22	2290	613	41	926
Carr, Rufus B., assignor to E. Howard Watch and Clock Company, Boston, Mass. Chimes-releasing mechanism	360,203	Mar. 29	2704	683	38	1437
Carré, Theodore C. A., Nantes, France. Apparatus for the manufacture of sugar in blocks	361,396	Apr. 19	1444	373	39	284
Carrick, William, Jr., Carlisle, county of Cumberland, assignor to G. Atherton, Stockport, England. Apparatus for forming bats for felt hats	366,816	July 19	1465	391	40	293
Carrick, William C., Philadelphia, Pa. Motor for tram-cars	356,570	Jan.	1825	{ 477 478 }	{ 38 }	370
Carrington, Elizabeth M. (See Coup, John, assignor.)						
Carrington, J. M. (See Wootton, William S., assignor.)						
Carrington, John T., and A. J. Sleeper, Clay Centre, Kans. Music-leaf turner	373,269	Nov. 15	1494	{ 394 395 }	{ 41 }	764
Carrington, Ransom M., <i>et al.</i> (See Coup, John, assignor.)						
Carroll, Craft C., Meadville, Pa. Alloy	373,221	Nov. 15	1433	.....	41	752
Carroll, John E., Philadelphia, Pa. Roof-valley	373,129	Nov. 15	1278	340	41	725
Carroll, John H., Dubuque, Iowa. Wall-supporter	370,315	Sept. 20	1439	385	40	321
Carroll, Martin, Brighton Park, Ill. Portable brick-drier	368,454	Aug. 16	1623	434	40	777
Carroll, Robert. (See Maguire, John, assignor.)						
Carroll, Theron S., Winsted, Conn. Hat-stretcher	368,068	Aug. 9	1062	284	40	661
Carroll, Thomas B., Indianapolis, Ind. Apparatus for regulating pressure	370,766	Oct. 4	20	5	41	6
Carroll, Thomas F. (See Cilley and Carroll.)						
Carroll, Thomas F., Laconia, and S. J. Cilley, Gonic, N. H. Check-rein holder	360,278	Mar. 29	2815	716	38	1458
Carroll, Thomas H., assignor of two-thirds to J. D. Ulmer, Philadelphia, Pa., and I. C. Beatty, Camden, N. J. Knitted fabric and making the same	365,728	June 28	2242	{ 583 584 }	{ 39 }	1536
Carroll, William. (See Mehren and Carroll.)						
Carroll, William H. (See Stoner, Hatcher, and Carroll.)						
Carroll, William T., Worcester, Mass. Shaft-hanger	373,337	Nov. 15	1597	421	41	783
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Bolster for spinning-spindles	357,977	Feb. 15	1796	471	38	774
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Support for spinning-spindles	360,277	Mar. 29	2815	715	38	1458
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Support for spinning-spindles	364,897	June 14	1004	263	39	1283
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Support for spinning-spindles	368,069	Aug. 9	1063	284	40	661
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Support for spinning-spindles	372,838	Nov. 8	845	225	41	635
Carsley, Hiram, Lynn, Mass. Machinery for dressing or planing ice	370,928	Oct. 4	285	70	41	57
Carson, Cyrus N., and W. Witherell, Knoxville, Ill. Combined clothes-suspending clamp and tag-holder	357,464	Feb. 8	1038	275	38	624
Carson, George W. (See Doyle and Carson.)						
Carson, John, Boonton, N. J. Combined square, miter, bevel, and level	363,988	May 31	2742	711	39	1020
Carson, John, Hamilton, Dak. Ter. Seeder	372,743	Nov. 8	678	186	41	607
Carson, John B., <i>et al.</i> (See Bartlett, Henry F., assignor.)						
Carson, Lucius A., Uniontown, Pa. Button-hole cutter	362,817	May 10	1065	289	39	678
Carson, Manly T., and J. D. Gurganus, Whistler, Ala. Car-brake	355,505	Jan. 4	272	72	38	55
Carson, Robert J., Omaha, Nebr., assignor to Union Hydraulic Drain Tile Company. Drain-tile machine	361,132	Apr. 12	1067	270	39	203
Carson, Robert J., assignor to Union Hydraulic Drain Tile Company, Omaha, Nebr. Tile-machine	372,600	Nov. 1	465	125	41	557
Carson, Thomas J., R. H. Williams, and D. C. Turner, Greenfield, Mo. said Williams and Turner assignors to said Carson. Remedy for rheumatism, &c.	367,337	July 26	2196		40	436

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Carson, W. F. (See Rowley, James F. and W. J., assignors.)						
Carson, W. J., <i>et al.</i> (See Emley, James E., assignor.)						
Carter, Alfred W., Cartersburg, Ind. Sawing-machine	367,958	Aug. 9	910	246	40	632
Carter, Charles A. (See Stephens and Carter.)						
Carter, Charles C., San Francisco, Cal. Smoke-consuming furnace	361,133	Apr. 12	1068	270	39	203
Carter, Claude, Levenshulme, near Manchester, county of Lancaster, England. Packing-ring	368,189	Aug. 16	1233	330	40	701
Carter, Edward G. (See Jewett, Marcellus, assignor.)						
Carter, Franklin M., Hull Prairie, Ohio. Thrashing-machine	358,834	Mar. 8	613	152	38	1022
Carter, Franklin S., Burlington, N. J., assignor to Partrick & Carter, Philadelphia, Pa. Combined electric receiving and transmitting device	368,809	Aug. 23	2121	561	40	880
Carter, Gilbert J., Clinton, Mass. Ring for spinning-frames	355,506	Jan. 4	274	72	38	55
Carter, Henry, Springfield, Ontario, Canada. Ditching and excavating machine	365,580	June 28	2026	528	39	1497
Carter, James H., Philadelphia, Pa. Necktie-fastening	364,087	May 31	2866	743	39	1045
Carter, John F., Beverly, Mass. Water-proof garment	360,851	Apr. 12	646	171	39	127
Carter, John M. (See Evans, Frank W., assignor.)						
Carter, John R. (See Kidder and Carter.)						
Carter, John S., Syracuse, and I. C. Wightman, Norwich, N. Y. Butter-worker	356,924	Feb.	251	69	38	468
Carter, John W., <i>et al.</i> (See Tirrell, Jacob P., assignor.)						
Carter, Robert A., assignor of one-half to Phillips, Nimick & Co., Pittsburg, Pa. Pile for the manufacture of iron sheets	366,152	July 5	544	147	40	103
Carter, Rufus R. (See Palmer and Carter.)						
Carter, Rufus R., Basil, Ohio. Clothes-line support	371,423	Oct. 11	977	255	41	198
Carter, Sidney T., and B. H. McCoy, Switzer, Ky. Corn-planter	368,455	Aug. 16	1624	{ 434 435 }	{ 40 40 }	{ 777 777 }
Carter, Theodore A., Red Oak, Iowa. Hay-loader	359,843	Mar. 22	2119	533	38	1322
Carter, Willard M., Boston, Mass. Elevator-hatchway	363,506	May 24	2036	530	39	881
Carter, William D., Brooklyn, assignor to Valentine & Company, New York, N. Y. Paint-can press	366,619	July 12	1194	319	40	236
Carter, William S., and F. C. Churchill, Lebanon, N. H. Buckle-slide	362,203	May 3	196	58	39	512
Cartner, William W. (See Ferguson and Cartner.)						
Cartwright, Oscar E., Detroit, Mich. Lewis-iron	361,927	Apr. 26	2204	572	39	434
Carty, John J., Cambridge, assignor to American Bell Telephone Company, Boston, Mass. Telephony	363,449	May 24	1942	509	39	861
Caruso, Henry D., East Orange, N. J., assignor to American Lead Pencil Company, of New York. Pencil or crayon holder	362,933	May 17	1233	328	39	716
Carver, Matha, <i>et al.</i> (See Jordan, Sidney L., assignor.)						
Carvin, Edward O., Corvallis, Oreg. Pipe-wrench	367,786	Aug. 9	666	180	40	585
Cary, Alecia C., Apopka, Fla. Cover for cooking-vessels	358,333	Feb. 22	2292	605	38	872
Cary, Charles H., Bristol, R. I. Rotary pump	374,731	Dec. 13	802	211	41	1212
Cary, Spencer C., Baldwin, N. Y. Box-strap	358,255	Feb. 22	2186	576	38	851
Casada, Charles D., and R. A. Henderson, assignors of one-third to G. N. Henson, Chattanooga, Tenn. Wooden pulley	369,586	Sept. 6	374	104	40	1106
Casaday, William L., South Bend, Ind. Plow	369,981	Sept. 13	957	{ 252 253 }	{ 40 40 }	{ 1223 1223 }
Casamajor, Paul, Brooklyn, N. Y. Cloth-holder for filter-presses	355,437	Jan. 4	185	49	38	37
Case, Adelbert B., Springfield, Mass. Ratchet-and-pawl device	373,811	Nov. 29	2314	620	41	940
Case, Adelbert B., Springfield, Mass. Ratchet-and-pawl device	373,812	Nov. 29	2315	620	41	940
Case Engine Company, J. T. (See Case, Joel T., assignor.)						
Case, Estella, New York, N. Y. Bust-form	370,375	Sept. 27	1537	411	40	1347
Case, Estella, New York, N. Y. Combined shoulder-brace and back-support	372,601	Nov. 1	467	125	41	558
Case, Evington W., Fenton, Mich. Balanced oar-handle	359,130	Mar. 8	1024	265	38	1100
Case, Francis M., Denver, Colo. Glove-stretcher	365,432	June 28	1797	468	39	1451
Case, Francis M., assignor of one-half to J. O. Bosworth, Denver, Colo. Sash-fastener	360,417	Apr. 5	22	7	39	6
Case, Frank E., Canton, Ohio. Surgical chair	360,279	Mar. 29	2816	716	38	1458
Case, Henry J., assignor of one-half to D. M. Osborne & Company, Auburn, N. Y. Grain-adjusting device for grain-binding machines	359,426	Mar. 15	1448	370	38	1184
Case, Henry J., and C. Young, assignors of one-half to D. M. Osborne & Company, Auburn, N. Y. Truck attachment for harvesters	358,835	Mar. 8	614	152	38	1023
Case, Joel T., Bristol, assignor to J. T. Case Engine Company, New Britain, Conn. Steam-engine and shaft-hanger	373,880	Nov. 29	2409	647	41	957
Case, Joel T., Bristol, assignor to J. T. Case Engine Company, New Britain, Conn. Steam or water motor	373,922	Nov. 29	2467	662	41	968
Case, John, and J. A. Whitaker, McDonalds, Pa. Device for automatically opening and shutting doors in coal-mines	363,985	May 31	2737	709	39	1019
Case, John M., assignor to Case Manufacturing Company, Columbus, Ohio. Bolt	370,726	Sept. 27	2071	549	40	1445
Case, Joseph S., New York, N. Y. Heating railway-trains	366,761	July 19	1395	373	40	280
Case Manufacturing Company. (See Case, John M., assignor.)						
Case, Orlando, <i>et al.</i> (See Snowberger, Jacob, assignor.) (Reissue.)						
Case, Samuel C., Flemington, N. J. Handle for peach-baskets	359,241	Mar. 15	1179	307	38	1135
Case, Schuyler S., Philadelphia, Pa. Folding table	356,618	Jan. 25	1896	498	38	384
Case, Sharon, Montezuma, Ind. Automatic grain-scales	370,316	Sept. 20	1440	{ 385 386 }	{ 40 40 }	{ 1321 1321 }
Case, Willard E., Auburn, N. Y. Converting chemical energy into electrical energy	368,190	Aug. 16	1234	330	40	701
Case, Willard E., Auburn, N. Y. Galvanic cell	368,191	Aug. 16	1235	330	40	701
Case, Willard E., Auburn, N. Y. Apparatus for converting heat energy into electrical energy	374,173	Dec. 6	18	4	41	1050
Casey, Jeremiah, New York, N. Y. Box-printing machine	363,986	May 31	2738	710	39	1019
Casey, Jeremiah, New York, N. Y. Combined belt-shifter and brake	369,228	Aug. 30	2695	{ 715 716 }	{ 40 40 }	{ 1002 1002 }
Casey, Thomas H. (See Farrell and Casey.)						
Casey, William. (See Davis and Casey.)						
Cash, Arthur W., assignor, by mesne assignments, to Typograph Company, Hartford, Conn. Type-writing machine	372,516	Nov. 1	334	92, 93	41	534
Cash, Arthur W., assignor, by mesne assignments, to Typograph Company, Hartford, Conn. Type-writing machine	372,602	Nov. 1	468	{ 125 126 }	{ 41 41 }	{ 558 558 }
Cash, Robert W., Hannibal, Mo. Vegetable-cutter	362,570	May 10	703	196	39	612
Cashin, Charles M., Boston, Mass. Door-check	372,655	Nov. 8	554	151	41	584
Cashin, Thomas D., Montrose, Pa. Seesaw	357,577	Feb. 15	1222	321	38	668
Cashman, James T., Hanover, Mass. Dumping-scow	371,922	Oct. 25	1702	441	41	362
Casler, Benjamin G., Randolph, N. Y. Coffin or casket stool	358,836	Mar. 8	615	{ 152 153 }	{ 38 38 }	{ 1023 1023 }
Cason, John D., <i>et al.</i> (See Seaton, Benjamin C., assignor.)						
Caspari, Charles F. B., assignor of one-half to S. L. Theller, San Francisco, Cal. Drier	374,520	Dec. 6	500	{ 130 131 }	{ 41 41 }	{ 1142 1142 }

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Casper, Frank L., Howe's Cave, N. Y. Table-leaf support.....	373,813	Nov. 29	2317	620	41	940
Cassagnes, Gilbert A., Paris, France. System of synchronism for telegraphy	368,931	Aug. 30	2302	612	40	925
Cassagnes, Gilbert A., Paris, France. System of synchronism for telegraphy	375,339	Dec. 27	1679	441	41	1397
Cassel Gold Extracting Company. (See Cassel, Henry R., assignor.)						
Cassel Gold Extracting Company. (See Liepmann, Henry, assignor.)						
Cassel, Henry R., New York, N. Y., assignor to Cassel Gold Extracting Company, (limited,) Glasgow, Scotland. Apparatus for separating metals from ores or alloys	360,852	Apr. 12	647	171	39	128
Cassel, Henry R., New York, N. Y., assignor to Cassel Gold Extracting Company, (limited,) Glasgow, Scotland. Apparatus for separating metals from ores or alloys	360,853	Apr. 12	649	171	39	128
Cassella & Co., Leopold. (See Weinberg and Siebert, assignors.)						
Cassidy, John T., Newark, N. J. Button-machine	367,501	Aug. 2	218	62	40	493
Cassidy, John T., Newark, N. J., and J. J. Rupp, New York, N. Y. Umbrella-frame	359,844	Mar. 22	2120	534	38	1323
Cassity, Oliver, White Lick, Ind. Vehicle-spring.....	375,603	Dec. 27	2043	530	41	1465
Casteel, James W., Cedarville, Kans. Churn-power	358,334	Feb. 22	2293	605	38	872
Castle, Lewis D., Jersey City, N. J. Screw-tap	373,270	Nov. 15	1497	395	41	764
Castle, William H. (See Hart and Castle.)						
Castleberry, Elisha F., Reaves, Ala. Plow for cultivating corn or cotton	356,446	Jan. 25	1648	432	38	337
Castleman, Morris N., assignor to himself, C. R. Bishop, J. Spafford, and R. P. Searl, Rockford, Ill. Churn-cover	361,208	Apr. 12	1188	301	39	225
Castleman, Stephen D., Washington, D. C. Building-block	358,837	Mar. 8	616	-----	38	1023
Castner, George L., Memphis, Tenn. Coin-package	368,810	Aug. 23	2122	562	40	880
Caswell, Charles H., Newport, R. I. Boiler	367,185	July 26	1959	{ 529 530 }	{ 40 40 }	394
Caswell, Edward A., New York, N. Y. Bed-fence	367,186	July 26	1960	530	40	395
Caswell, Isaac C., assignor of one-half to W. A. Pease, New Bedford, Mass. Machine for bundling cigars	368,932	Aug. 30	2304	612	40	925
Caswell, Thomas, Cherokee, Iowa. Stove	366,926	July 19	1605	430	40	320
Catchings, Thomas J., Taylor, Tex. Churn	365,364	June 28	1686	440	39	1431
Cate, Octavius, Boston, Mass. Spool	366,073	July 5	443	120	40	83
Cately, Shepard W., and W. D. Tisdale, Cortland, N. Y. Wagon-jack	370,767	Oct. 4	21	5	41	7
Catlin, Charles A., assignor of one-half to C. S. Sweetland, Providence, R. I. Sulphite solution for wood pulp	366,153	July 5	545	-----	40	103
Catlin, Seth C., New York, N. Y. Spool-holder	359,712	Mar. 22	1899	482	38	1284
Catlin Tobacco Company. (See Hardy Isham T. assignor.)						
Caton, William E., assignor to T. A. Mason Joliet Ill. Car-coupling	363,589	May 24	2153	558	39	904
Cattell, Sarah E., Mattoon, Ill. Clasp	375,475	Dec. 27	1859	486	41	1432
Cauderay, Jules, Paris, France. Apparatus for measuring electricity	365,792	July 5	40	{ 11 12 13 }	{ 40 40 40 }	9
Cauderay, Jules, Paris, France. Apparatus for measuring electricity	366,202	July 12	615	{ 168 169 }	{ 40 40 }	124
Cauderay, Jules, Paris, France. Electric dynamometer	372,358	Nov. 1	108	{ 31 32 33 }	{ 41 41 41 }	491
Caughy, Frank T., et al. (See Melhorn, William E., assignor.)						
Caughy, John B., assignor of one-half to H. S. Keylor, Bartville, Pa. Tobacco-lath holder. Caughy, Samuel S., et al. (See Melhorn, William E., assignor.)	373,721	Nov. 22	2179	583	41	907
Cauldwell, James A., Owego, N. Y. Boiler	370,241	Sept. 20	1335	357	40	1301
Caullet, Henry T., Trenton, N. J. Pantaloon	365,296	June 21	1586	413	39	1399
Cauthorn, Isaac N., Rich Hill, Mo. Baling-press	374,450	Dec. 6	402	105	41	1122
Cavanagh, James, New York, N. Y. Clothes-line	359,427	Mar. 15	1449	371	38	1185
Cayley, Claud T., and R. S. Courtman, London, England; said Courtman assignor to said Cayley. Manufacture of shells	374,113	Nov. 29	2740	{ 735 736 737 }	{ 41 41 41 }	1022
Cazier, Marion H., Chicago, Ill. Wardrobe attachment	366,456	July 12	946	258	40	188
Cedarvall, Martin S., Petersburg, Ill. Bolt	375,604	Dec. 27	2044	530	41	1466
Celce, Fritz, assignor to H. Seymour Cutlery Company, Holyoke, Mass. Shears	355,299	Jan. 4	12	4	38	4
Celery Beef and Iron Extract Company. (See Henley, William, assignor.)						
Celluloid Novelty Company. (See Carpenter, William B., assignor.)						
Celluloid Novelty Company. (See Furman, John A., assignor.)						
Center, Augustus L., Weedsport, N. Y. Crank-shaft connection	374,174	Dec. 6	20	5	41	1050
Central Stamping Company. (See Bayley, Alfred, assignor.)						
Chace, John K., assignor to J. L. Bright, New York, N. Y. Machine for scouring sheet metal	359,919	Mar. 22	2229	561	38	1343
Chace, Lincoln E., Freetown, assignor of one-half to F. E. Fuller, Taunton, Mass. Machine for making buttons	359,997	Mar. 29	2360	595	38	1374
Chace, Lincoln E., Freetown, assignor of one-half to F. E. Fuller, Taunton, Mass. Machine for making buttons	372,011	Oct. 25	1825	473	41	384
Chadeayne, George H., Buffalo, N. Y. Toboggan	368,515	Aug. 16	1707	455	40	793
Chadwick, George B. (See Thomas, Ira A., assignor.)						
Chadwick, John, Bolton, county of Lancaster, England. Pneumatic toy	362,606	May 10	762	210	39	622
Chadwick Lead Works. (See Sloan, Elisha C., assignor.)						
Chadwick, Samuel H., Dayton, Ohio. Harrow	365,046	June 21	1221	322	39	1333
Chadwick, William H. (See Fowler and Chadwick.)						
Chafee, Enoch M. (See Alexander, James H., assignor.)						
Chaffee, Reuben S., Springfield, Ill. Magazine fire-arm	368,933	Aug. 30	2306	612	40	925
Chaffin, James, assignor of one-half to W. W. Robinson, Ripon, Wis. Gate	358,015	Feb. 22	1843	487	38	788
Chailly, François. (See Millochau and Chailly.)						
Chalfant, Bayard, Kimmund, Ill. Unloading apparatus	373,222	Nov. 15	1434	379	41	752
Chalfant, Jonathan, Bluntsville, Ind. Cultivator	359,242	Mar. 15	1180	308	38	1135
Chalifoux, Israel, Chicago, Ill. Inlaying	356,523	Jan. 25	1754	457	38	357
Chalmers, Robert S., Council Bluffs, Iowa. Hot-air stove	372,359	Nov. 1	110	33	41	492
Chambard, Peter F., Fayette, Ohio. Hay-sling	372,203	Oct. 25	2126	546	41	439
Chamberlain, Charles F., and G. L. Lamb, Goshen, Ind. Scrubbing-brush	359,129	Mar. 8	1024	265	38	1100
Chamberlain & Co., J. W. (See White and Chamberlain, assignors.)						
Chamberlain, George G., and L. P. Cline, Sauk Centre, Minn. Washing-machine	370,854	Oct. 4	151	41	41	30
Chamberlain, J. Chester, New York, N. Y. Electrical cut-out device	375,476	Dec. 27	1861	486	41	1432
Chamberlain, Joseph W. (See White and Chamberlain.)						
Chamberlain, Manasseh A., Wild Cat, Kans. Traction-engine	357,978	Feb. 15	1797	471	38	774
Chamberlain, Melvin C., and M. N. Merrill, Lac-qui-Parle, Minn. Fence-post	368,456	Aug. 16	1627	435	40	778
Chamberlain, William C., Cedar Bluff, Va. Nut-lock	367,023	July 26	1731	466	40	352
Chamberlain, William C., Cedar Bluff, Va. Fire-escape	373,722	Nov. 22	2180	{ 583 584 }	{ 41 41 }	907
Chamberlin, Albert W., assignor of one-half to Chamberlin Manufacturing Company, Olean, N. Y. Washing-machine	361,612	Apr. 19	1740	449	39	340

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Chamberlin, Amos S., Croton, N. J. Basket-cover.....	357,466	Feb. 8	1041	275	38	624
Chamberlin Cartridge Company. (See Burdick, George, assignor.)						
Chamberlin, Charles H., Chicago, Ill. Method of and means for increasing the power of streams of water from hose, &c.....	372,299	Nov. 1	18	6	41	474
Chamberlin Manufacturing Company. (See Chamberlin, Albert W., assignor.)						
Chamberlin, Thomas E., Arkansas City, Kans. Combination-tool.....	356,925	Feb. 1	252	70	38	468
Chambers, Adelbert, assignor of nine-sixteenths to W. M. Peckham, Troy, N. Y. Apparatus for treating vegetable substances for making paper-stock.....	365,166	June 21	1403	370	39	1365
Chambers, Bering, Quinlan Company. (See Chambers and Kaylor, assignors.)						
Chambers, Cyrus, Jr. (See Chambers, J. Howard, assignor.)						
Chambers, Cyrus, Jr. (See Lasor, Sanford W., assignor.)						
Chambers, Cyrus, Jr. (See Mendham, William, assignor.)						
Chambers, Cyrus, Jr., Philadelphia, Pa. Brick-machine.....	362,204	May 3	196	{ 58 59 60 }	39	512
Chambers, Daniel T., Mansfield, assignor of one-third to F. C. Schiffer and W. H. Houpt, Shelby, Ohio. Tug-fastener for single-trees.....	357,368	Feb. 8	895	236	38	596
Chambers, Daniel T., Mansfield, assignor of one-third to F. C. Schiffer and W. H. Houpt, Shelby, Ohio. Tug-fastener.....	357,549	Feb. 8	1166	306	38	648
Chambers, Daniel T., Mansfield, assignor of one-third to F. C. Schiffer and W. H. Houpt, Shelby, Ohio. Crown-piece for bridles or halters.....	358,541	Mar. 1	191	45	38	938
Chambers, J. Howard, assignor to C. Chambers, Jr., Philadelphia, Pa. Device for securing tempering-knives in the pugging-shafts of brick-machines.....	356,571	Jan. 25	1826	478	38	371
Chambers, Joseph H., Pleasant Unity, assignor of one-half to B. F. Byers, Greensburg, and W. F. Miller, Pittsburg, Pa. Pipe-coupling for railway-cars.....	370,606	Sept. 27	1886	{ 500 501 }	40	1410
Chambers, William A. (See Kohler, Frank, assignor.)						
Chambers, William A. (See Kohler and Chambers.)						
Chambers, William B., and J. Kaylor, assignors to Chambers, Bering, Quinlan Company, Decatur, Ill. Check-row corn-planter.....	361,613	Apr. 19	1741	{ 450 451 }	39	340
Champagne, Louis, Marshfield, Wis. Car-coupling.....	363,800	May 31	2462	639	39	968
Champion Bar and Knife Company. (See Webster, John F., assignor.)						
Champion, David J., Cleveland, Ohio. Copying-pad holder.....	369,691	Sept. 13	524	145	40	1144
Champion Iron Fence Company. (See Hanson, Francis O., assignor.)						
Champion, Josiah P. (See Babcock and Champion.)						
Champion, Josiah P., Phelps, N. Y. Combined borer and reamer.....	362,934	May 17	1235	328	39	716
Champion, Josiah P., Phelps, N. Y. Tube-expander.....	375,259	Dec. 20	1569	411	41	1367
Champion Safety Lock and Novelty Company. (See Lister, John T., assignor.)						
Champion Shoe Burnishing Machine Company. (See Parkhurst, Emmons M., assignor.)						
Champion, Theodore H., Minneapolis, Minn. Generating heat.....	362,935	May 17	1235	329	39	717
Champlin, Amos F. (See Heath and Champlin.)						
Champlin, Justin F., Willink, N. Y. Game-counter.....	364,704	June 14	702	187	39	1228
Champney, George F., Berlin, Germany. Manufacture of dies.....	368,873	Aug. 23	2205	.....	40	898
Chance, Henry, Fostoria, Ohio. Railway-frog.....	355,507	Jan. 4	275	73	38	55
Chance, William E., Oldbury, county of Worcester, England. Machinery for the manufacture of sheets of rippled glass.....	359,128	Mar. 8	1022	{ 264 265 151 152 }	38	1099
Chancellor, Charles W., Baltimore, Md. Separating and filtrating apparatus for sewage.....	372,656	Nov. 8	554	{ 151 152 }	41	584
Chandler, Alfred N., Lebanon, Tenn. Back-band hook.....	369,229	Aug. 30	2696	716	40	1002
Chandler, Bartlett B., Hyde Park, Mass. Glazier's point.....	360,656	Apr. 5	377	95	39	71
Chandler, Bartlett B., Hyde Park, Mass. Implement for inserting glaziers' points.....	363,363	May 24	1820	478	39	839
Chandler, Benjamin F., Kingston Centre, Ohio. Fence-making machine.....	367,187	July 26	1962	530	40	395
Chandler, Charles C., and C. E. Briggs, St. Joseph, Mo. Track-gage.....	371,303	Oct. 11	804	205	41	165
Chandler, Charles F., Newark, N. J. Steam-engine.....	357,655	Feb. 15	1338	352	38	688
Chandler, Moses, East Corinth, Me. Wheel-harrow.....	358,838	Mar. 8	617	153	38	1023
Chandler, Moses, Monument, Colo. Seeding-machine.....	359,594	Mar. 22	1740	442	38	1254
Chandler, Norris S., Springfield, Mass. Jug-tilting device.....	370,607	Sept. 27	1888	501	40	1411
Chandler & Price. (See Price, William H., Jr., assignor.)						
Chantrell, John, assignor to Reading Hardware Company, Reading, Pa. Sash-fastener.....	359,058	Mar. 8	934	238	38	1082
Chantrell, John, assignor to Reading Hardware Company, Reading, Pa. Sash-fastener.....	362,936	May 17	1238	329	39	717
Chapin, George L., Chicago, Ill. Hand fire-extinguisher.....	358,429	Mar. 1	8	3	38	904
Chapman, Adolphus J. (See Close, Walter R., assignor.)						
Chapman & Co., W. H. (See Bailey, Charles A., assignor.)						
Chapman & Co., W. H. (See Chapman, William H., assignor.)						
Chapman, Charles H., Groton, assignor to Eureka Spindle Company, Ayer, Mass. Ring-spinning frame and spindle used therefor.....	357,903	Feb. 15	1687	439	38	753
Chapman, Charles H., Groton, assignor to Eureka Spindle Company, Ayer, Mass. Bolster for spinning-spindles.....	357,904	Feb. 15	1689	440	38	754
Chapman, George, assignor to Emerson, Talcott & Company, Rockford, Ill. Harvester.....	374,521	Dec. 6	502	131	41	1143
Chapman, J. K. (See Odell, Albert P., assignor.)						
Chapman, John G., Downey, Cal. Automatic stop for windmills.....	369,587	Sept. 6	375	104	40	1106
Chapman, Joseph, Dubuque, Iowa. Car lock and seal.....	363,801	May 31	2463	{ 639 640 }	39	968
Chapman, Joseph L., Haddonfield, N. J. Pressure-gage.....	355,381	Jan. 4	116	32	38	25
Chapman, Little B. (See Williamson, John A., Jr., assignor.)						
Chapman, Mark C. (See Chapman, Matthew T. and M. C.)						
Chapman, Matthew T., Aurora, Ill. Expansion-drill.....	370,046	Sept. 20	1063	281	40	1250
Chapman, Matthew T., Aurora, Ill. Winding-drum.....	371,548	Oct. 18	1146	{ 299 300 }	41	242
Chapman, Matthew T. and M. C., Aurora, Ill. Apparatus for sinking wells.....	373,440	Nov. 22	1759	466	41	825
Chapman, Moses E., Danvers, Mass. Thread-guard for sewing-machines.....	365,793	July 5	45	14	40	10
Chapman, Robert C., and D. L. Eustice, East Dubuque, assignors, by mesne assignments, to F. Bartlett, Freeport, Ill. Grappling-tool.....	361,614	Apr. 19	1743	451	39	341
Chapman, Robert W. (See Jenkinson, Richard C., assignor.) (Reissue.)						
Chapman, Robert W., Newark, N. J. Buckle and strap-fastening.....	368,376	Aug. 16	1498	400	40	754
Chapman, Robert W., Newark, N. J. Spring side catch for satchels, &c.....	375,340	Dec. 27	1679	{ 441 442 }	41	1397
Chapman, Rush P., Hartford, Conn. Gridiron.....	363,590	May 24	2155	559	39	904
Chapman, Thomas. (See Spencer and Beebe, assignors.)						
Chapman, Thomas P., and A. L. Whitley, St. Louis, Mo.; said Whitley assignor to said Chapman. Roll-paper holder and cutter.....	369,692	Sept. 13	525	145	40	1144
Chapman, William H., assignor to W. H. Chapman & Co., Middletown, Conn. Buckle-guard.....	372,603	Nov. 1	470	126	41	558
Chapman, William H., and B. C. Donahue, Portland, Me. Electrical indicator.....	355,382	Jan. 4	117	32	38	25
Chapman, William J., and G. Kennedy, Plymouth, Ill. Brush hook.....	371,923	Oct. 25	1702	441	41	362

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Chappatte, Edward C., assignor to Keystone Watch Case Company, Philadelphia, Pa. Watch-case.....	373,011	Nov. 8	1101	294	41	682
Chappatte, Edward C., assignor to Keystone Watch Case Company, Philadelphia, Pa. Watch-case.....	373,723	Nov. 22	2183	584	41	907
Chappell, Benjamin F., South Windham, Conn. Chuck.....	374,732	Dec. 13	803	211	41	1213
Chappell, Francis W., Baltimore, Md. Apparatus for feeding acid to Glover towers, &c.....	375,121	Dec. 20	1392	361	41	1331
Chappell, Rollin D., Vassar, assignor of one-half to G. Reid, Reese, Mich. Animal-catcher.....	369,230	Aug. 30	2697	716	40	1002
Chaquette, Ephraïem, San Francisco, Cal. Float or ponton for carrying lines of pipes for dredging purposes.....	357,367	Feb. 8	893	{ 235 } 236	{ 38 } 39	596
Charbonneau, Philias, Boston, Mass. Chair.....	361,615	Apr. 19	1744	451	39	341
Charles, August, Chicago, Ill. Harness.....	372,517	Nov. 1	336	93	41	534
Charlesworth, Horatio G., Toronto, Ontario, Canada. Felt boot.....	355,972	Jan. 11	976	256	38	198
Charleville, George W., Baird, Tex. Gate-latch.....	373,271	Nov. 15	1499	395	41	765
Charlton, James, Houston, Tex. Door-hanger.....	362,937	May 17	1240	329	39	717
Charpantier, Jules V. (See Tourné, Jérôme E., assignor.)						
Charron, Theophile, assignor to himself and H. C. Cooper, Kankakee, Ill. Device for operating awnings.....	365,239	June 21	1496	393	39	1384
Charron, Theophile, assignor to himself and H. C. Cooper, Kankakee, Ill. Device for operating awnings.....	368,377	Aug. 16	1500	400	40	754
Charter, John, Sterling, Ill. Gas-engine.....	356,447	Jan. 25	1649	433	38	338
Charter, John, Sterling, Ill. Gas-engine.....	370,242	Sept. 20	1337	357	40	1301
Chartier, Mélie E., assignor to J. E. Harper, Chicago, Ill. Machine for making pills.....	362,357	May 3	395	{ 109 } 110	{ 39 } 40	551
Chase, Andrew J., Boston, Mass. Store-service apparatus for twine.....	365,794	July 5	46	14	40	10
Chase, Andrew J., Boston, Mass. Store-service apparatus for twine.....	373,881	Nov. 29	2411	648	41	957
Chase, Andrew J., Boston, Mass. Refrigerating apparatus.....	374,114	Nov. 29	2744	{ 737 } 738	{ 41 } 42	1023
Chase, Charles H., Lowell, Mass. Ash-sifter.....	372,204	Oct. 25	2128	547	41	439
Chase, Clark, Fall River, Mass. Endless chain elevator.....	362,571	May 10	704	{ 196 } 197	{ 39 } 40	612
Chase, Edward M., Boston, Mass. Electric railway-signal.....	367,598	Aug. 2	350	100	40	518
Chase, Edward M., Boston, Mass. Railway-signal.....	371,670	Oct. 18	1317	{ 341 } 342	{ 41 } 42	276
Chase, Edward R. and S. C., Findlay, Ohio. Gate.....	371,304	Oct. 11	806	{ 205 } 206	{ 41 } 42	166
Chase Fog Whistle Machine Company. (See Chase, James L., assignor.)						
Chase, Frank, assignor to Chase Lasting Machine Company, Boston, Mass. Tack-making machine.....	356,619	Jan. 25	1898	498	38	385
Chase, Frank, assignor to Chase Lasting Machine Company, Boston, Mass. Tack-driver.....	356,620	Jan. 25	1901	499	38	385
Chase, Frank, assignor to Chase Lasting Machine Company, Boston, Mass. Lasting-machine.....	363,283	May 17	1711	448	39	810
Chase, Frank, Boston, Mass., assignor to Chase Lasting Machine Company. Machine for lasting boots or shoes.....	364,088	May 31	2867	{ 743 } 744	{ 39 } 40	1045
Chase, Fred. C., assignor of one-half to C. A. Mills, Lowville, N. Y. Wrist-pin for engines.....	355,920	Jan. 11	888	232	38	180
Chase, Henry A., Stoneham, Mass., assignor to Municipal Signal Company, Portsmouth, N. H. Signal-box.....	363,948	May 31	2672	693	39	1006
Chase, Henry A., Stoneham, Mass., assignor to Municipal Signal Company, Portsmouth, N. H. Signal-box.....	366,154	July 5	545	147	40	103
Chase, Isaac M., Washington, D. C. Multiple steam-generator.....	363,802	May 31	2466	{ 640 } 641	{ 39 } 40	969
Chase, J. Herbert, Montreal, Canada. Mechanical musical instrument.....	360,280	Mar. 29	2820	717	38	1459
Chase, J. Herbert, Brooklyn, assignor to Mechanical OrguINETTE Company, New York, N. Y. Mechanical musical instrument.....	363,591	May 24	2156	559	39	904
Chase, James, Rochester, N. Y. Blind-stop.....	369,231	Aug. 30	2698	716	40	1003
Chase, James L., assignor to Chase Fog Whistle Machine Company, Cleveland, Ohio. Fog-whistle machine.....	358,648	Mar. 1	338	81, 82	38	966
Chase, John, Paterson, N. J. File for papers, &c.....	367,959	Aug. 9	911	247	40	632
Chase, John F., Augusta, Me. Mop-wringer.....	365,167	June 21	1405	370	39	1365
Chase, John K., assignor to Chase Metal Company, New York, N. Y. Box-strap.....	367,892	Aug. 9	812	219	40	614
Chase, L. Wilder, trustee. (See Messer, Daniel F., assignor.)						
Chase Lasting Machine Company. (See Chase, Frank, assignor.)						
Chase Last Company. (See Shaw and Chase, assignors.)						
Chase Metal Company. (See Chase, John K., assignor.)						
Chase, Norman F., Montrose, N. Y. Electric attachment for locomotives.....	370,243	Sept. 20	1339	{ 357 } 358	{ 40 } 41	1302
Chase, Rolla M., Bethel, Vt. Dental plate.....	371,174	Oct. 11	628	161	41	132
Chase, Sidney A., assignor of one-half to W. R. Mapes, Evart, Mich. Galvanic battery.....	357,550	Feb. 8	1167	306	38	648
Chase, Solomon C. (See Chase, Edward and S. C.)						
Chase, Solomon C., North Baltimore, Ohio. Machine for cutting bungs.....	357,175	Feb. 8	644	167	38	549
Chase, Theodore R., Detroit, Mich. Combined water heater and circulator.....	366,074	July 5	443	120	40	84
Chase, Theodore R., Detroit, Mich. Water heater and circulator.....	369,043	Aug. 30	2456	{ 651 } 652	{ 40 } 41	954
Chase, Thomas. (See Katzner, Russell, and Chase.)						
Chase, Thomas B., assignor of one-half to E. R. Wheelock, New York, N. Y. Elliptic spring.....	365,968	July 5	301	79	40	57
Chase, Wellington. (See Pratt and Chase.)						
Chase, William D., Hackensack, N. J. Clock.....	373,441	Nov. 22	1760	467	41	825
Chase, William R. (See Shaw and Chase.)						
Chase, William R., Lynn, assignor of one-third to C. A. Shaw, Boston, Mass. Last.....	367,091	July 26	1835	495	40	371
Chasles, Henri C., Paris, France. Machine for ironing linen fabrics and other materials.....	372,453	Nov. 1	250	69	41	518
Chastain, James B. (See Gray and Chastain.)						
Chatain, Evariste, San Francisco, Cal. Mosaic work.....	365,908	July 5	213	55	40	42
Chatellier, Joseph F., New York, N. Y. Setting for mirrors.....	367,363	Aug. 2	15	4	40	454
Chatillon, George H., New York, N. Y. Concealing mechanism for scales, registers, &c.....	364,478	June 7	385	{ 104 } 105	{ 39 } 40	1161
Chattaway, Joseph, Petoskey, Mich. Door-mat.....	366,645	July 19	1235	330	40	251
Chatterton, Charles W., Centerville, Iowa. Fly-screen.....	356,349	Jan. 18	1509	397	38	304
Chawner, Thomas C., New York, N. Y. Circular-knitting machine.....	357,816	Feb. 15	1571	409	38	732
Cheek, Daniel L., Gainesville, Ga. Vehicle-shaft.....	360,204	Mar. 29	2706	683	38	1437
Cheek, Marcellus B. (See Grassmann and Cheek.)						
Cheever, Charles A., trustee. (See Ball, Charles E., assignor.)						
Cheever, Charles A., trustee. (See Phelps, Lucius J., assignor.)						
Chellis, Edgar W. (See Drawbaugh, Daniel, assignor.)						
Cheltz, Charles D., assignor of one-half to Z. H. Patrick, Sheldon, Ill. Pipe-wrench.....	365,729	June 28	2245	584	39	1527

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Cheltz, Charles D., assignor of one-half to Z. E. Patrick, Sheldon, Ill. Screw-cutting die..	371,175	Oct. 11	629	161	41	132
Chen, Tom P., San Francisco, Cal. Wood splitting and chopping machine	375,122	Dec. 20	1393	362	41	1331
Cheney Company, P. C. (See Phillips, Franklin F., assignor.)						
Cheney, Frederick A., Troy, N. Y. Electric-lighting system	359,713	Mar. 22	1900	{ 482 483 }	{ 38 38 }	1284
Cheney, Henry P., Manchester, N. H. Pulp-mill	358,593	Mar. 1	272	63	38	953
Cheney, James W., Detroit, Mich. Screw-clamp	368,278	Aug. 16	1378	363	40	728
Cheney, Norman H. (See Hodgman and Cheney.)						
Cheney, Owen L., Bloomington, Ill. Combined pen and pencil holder	368,934	Aug. 30	2308	613	40	926
Chenoweth, Alexander C., New York, N. Y. Laying continuous electrical conduits	366,457	July 12	946	258	40	188
Cherry, John. (See Wade and Cherry.)						
Chesebro, Giles H., Toledo, Ohio. Photographic-printing frame	363,209	May 17	1617	424	39	791
Chesebrough, Robert A., New York, N. Y. Street-railway	375,123	Dec. 20	1394	362	41	1332
Cheshire, James L., assignor of one-half to J. L. and D. M. W. Bird, Argus, Ala. Car-coupling	362,425	May 3	495	140	39	571
Cheshire Watch Company. (See Yarrington, Charles H., assignor.)						
Chesnutwood, George, <i>et al.</i> (See Grider, John, assignor.)						
Chess & Wymond Company. (See Wymond, William S., assignor.)						
Chester, Elijah G., assignor of one-half to E. Sutro, Philadelphia, Pa. Making stockings..	365,671	June 28	2158	562	39	1521
Chester & Keller Manufacturing Company. (See Sargent, Charles E., assignor.)						
Chester, Stephen M., Elizabeth, N. J., assignor to C. Rockhill, New York, N. Y. Apparatus for waxing paper and other material	360,373	Mar. 29	2948	749	38	1481
Chesnut, John W., Allegheny City, assignor of one-half to J. C. Barnes, Philadelphia, Pa. Pot and lid lifter	358,803	Mar. 1	557	139	38	1008
Chevers, Aurion V., Providence, R. I. Wind musical instrument	373,012	Nov. 8	1102	{ 294 295 }	{ 41 41 }	682
Chew, Charles F., Bridgeport, Conn. Diminished-tone violin	358,542	Mar. 1	192	45	38	938
Cheyne, Frederick H., Brampton, Ontario, Canada. Station-indicator	371,737	Oct. 18	1425	368	41	298
Chicago Gas Stove Company. (See McClary, Nelson A., assignor.)						
Chicago Metal Quoin and Patent Block Company. (See Burke, James A., assignor.)						
Chicago Mortising Machine Company. (See Douglas, Charles H., assignor.)						
Chicago Safe and Lock Company. (See Gross, Henry, assignor.)						
Chicago Sash Pulley Company (See Phillips, Francis V., assignor.)						
Chichester, Leon. (See Boyle, Homer L., assignor.)						
Chichester, Lewis S., assignor to A. Lemassena, Newark, N. J. Air-compressing apparatus ..	370,376	Sept. 27	1539	{ 411 412 }	{ 40 40 }	1348
Chidester D. F., <i>et al.</i> (See Rawles, John, assignor.)						
Chidester, Frank H., and S. J. Harmount, Massillon, Ohio. Dental vulcanizing apparatus..	359,773	Mar. 22	2003	{ 506 507 }	{ 38 38 }	1301
Child, Daniel R., North Swansea, Mass. Button, stud, &c.	361,862	Apr. 26	2119	549	39	418
Childs Albert F., <i>e al.</i> (See Ekhardt, John, assignor.)						
Childs & Co., J. M. (See Smith, Dewane B., assignor.)						
Childs & Co., J. Morris. (See Childs and Smith, assignors.) (Reissue.)						
Childs, David A., Columbia S. C. Key-operating device	358,649	Mar. 1	342	82	38	967
Childs, Eugene. (See De Costa, Childs, and Witherell.)						
Childs, Frank C., <i>et al.</i> (See Gerald, Robert F., assignor.)						
Childs, J. Morris, Utica, N. Y. Harrow	358,839	Mar. 8	620	153	38	1024
Childs, J. Morris, and D. B. Smith, assignors to J. M. Childs & Co., Utica, N. Y. Mechanism for hanging and centering grindstones and frames therefor. (Reissue)	10,813	Mar. 8	1170	304	38	1126
Childs, J. Ward, New York, N. Y. Attachment for wash-stands	364,479	June 7	387	105	39	1161
Childs, Jesse A., Coughatta, La. Planter	368,811	Aug. 23	2123	562	40	881
Childs Sewing Machine Company. (See Post, John W., assignor.)						
Childs, Solonoi. (See Bartlett and Childs.)						
Childs, Walter H., Brattleborough, Vt. Recording-anemoscope	364,802	June 14	864	{ 226 227 }	{ 39 39 }	1256
Childs, William H. H., Brooklyn, N. Y. Machine for making sheathing-paper	361,050	Apr. 12	947	239	39	180
Childs, William H. H., Brooklyn, N. Y. Wrapping-paper	362,249	May 3	258	.....	39	523
Childs, William H. H., Brooklyn, N. Y. Sheathing-paper	372,894	Nov. 8	927	250	41	650
Chilton, Franklin H., assignor to C. V. Faile, New York, N. Y. Drawer-pull	373,013	Nov. 8	1107	295	41	682
Chilton, William W., assignor to C. V. Faile, New York, N. Y. Drawer-pull	369,315	Sept. 6	14	4	40	1037
Chinnoek, Charles E., Brooklyn, N. Y. Telephone-signal	355,383	Jan. 4	119	33	38	25
Chinnoek, Charles E., Brooklyn, N. Y. Electric alarm	355,384	Jan. 4	122	33	38	26
Chinnoek, George H., Brooklyn, and H. S. Taylor, New York, N. Y. Mechanical musical instrument	375,531	Dec. 27	1928	505	41	1446
Chipley, Gardiner W., St. Charles, Mo. Shaft-holder	365,502	June 28	1891	493	39	1470
Chipman, Henry C. (See Kubach, Charles D., assignor.)						
Chisholm, Charles W., Winnipeg, Manitoba, Canada. Car-coupling	369,502	Sept. 6	252	71	40	1082
Chisholm, William. (See Dow, Joseph H., assignor.)						
Chisolm, Arthur R., St. Louis, Mo. Car heating and cooling device	358,382	Feb. 22	2363	627	38	885
Chisolm, William B., Charleston, S. C. Apparatus for treating fertilizers	369,434	Sept. 6	169	49	40	1064
Chisolm, William B., Charleston, S. C. Fish-plate for railway-rails	375,124	Dec. 20	1395	{ 362 363 }	{ 41 41 }	1332
Chivill, John, assignor to Webster & Comstock Manufacturing Company, Chicago, Ill. Elevator-bucket	371,549	Oct. 18	1151	300	41	242
Choinanus, Richard, Hoboken, N. J., assignor to H. Oppenheimer, New York, N. Y., and A. Bonnem, Oberstein, Germany. Holder for pictures	368,994	Aug. 30	2388	634	40	941
Chopard, Adhemar. (See Güdel and Chopard.)						
Chope, Robert L., Detroit, Mich. Money-package	366,075	July 5	445	120	40	84
Christ, John. (See Schmidt and Christ.)						
Christensen, Anders C., Copenhagen, Denmark. Albuminimeter	364,898	June 14	1005	263	39	1283
Christensen, August C., Brooklyn, N. Y. Gas piston-meter	366,762	July 19	1396	{ 373 374 }	{ 40 40 }	281
Christensen, August C., Brooklyn, N. Y. Piston gas-meter	373,923	Nov. 29	2468	663	41	969
Christensen, John, Dexter, Mich. Farm-gate	358,729	Mar. 1	457	111	38	989
Christian, Charles A., <i>et al.</i> (See George, William F., assignor.)						
Christian, Hans, Vienna, Austria-Hungary. Adjustable coat-holder	364,803	June 14	866	227	39	1257
Christiansen, Martin, Clinton, Wis. Tile-laying attachment for mole-plows	355,588	Jan. 4	380	102	38	76
Christie, Gamaliel R. (See Speirs, John, assignor.)						
Christie, Jacob, Long Island City, assignor to S. Sterling, Brooklyn, N. Y. Grate-bar.....	361,397	Apr. 19	1445	373	39	284
Christie, James I. (See Twombly, Charles, assignor.)						
Christie, John. (See Andrew, Frederick, assignor.)						
Christie, Richard C. (See Gardner, William, assignor.)						
Christie, Thomas S. (See Weber, Adolph, assignor.)						
Christie, William, Wheaton, Ill. Pump-motor	366,203	July 12	618	169	40	125

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Christiff, Joseph, Hightstown, N. J. Thill-coupling	357,761	Feb. 15	1505	392	38	719
Christin, Louis. (See Wheelan and Schurch, assignors.)						
Christman, Mary E., Woodville, N. Y. Potable wardrobe	357,905	Feb. 15	1691	440	38	754
Christman, Philip, Allegheny City, Pa. Bung-extractor	359,998	Mar. 29	2362	595	38	1374
Christmann, John, Milwaukee, Wis. Door-hanger	374,656	Dec. 13	697	183	41	1192
Christopher, Calvin F. (See Imloes, Justice, and Christopher.)						
Christopher, James C., Baltimore, Md. Apparatus for filtering air	366,568	July 12	1117	299	40	223
Christopher, John M., Clifton, Md. Track-clearer	371,032	Oct. 4	434	109	41	86
Christy, Andrew J., and E. O. Bennett, assignors to S. B. Paige, E. H. and C. J. Moore, } San Francisco, Cal. Ore crusher and granulator	364,480	June 7	388	{ 105 } { 106 }	{ 39 }	1161
Christy, Thomas J., St. Louis, Mo. Washing-machine	363,046	May 17	1396	369	39	748
Christy, William B. (See Vanetten, Ira S., assignor.)						
Chu, Lam T., San Francisco, Cal. Chinese lantern	361,134	Apr. 12	1070	270	39	203
Chubb, Thomas H., Post Mills, Vt. Fishing-reel	370,684	Sept. 27	1999	532	40	1432
Chubbuck, Aaron F., Tyrone, Mich. Windmill	372,300	Nov. 1	20	6	41	474
Chuchu, Athanase, Bahia, Brazil. Fire-arm	359,428	Mar. 15	1450	371	38	1185
Church, Afton, New York, N. Y. Pad for copying-presses	372,454	Nov. 1	251	70	41	518
Church, Alvin T., Farmington, Iowa. Sash-holder	357,578	Feb. 15	1223	322	38	668
Church, Alvin T., Farmington, Iowa. Pen-holder	368,651	Aug. 23	1886	503	40	836
Church, Duane H. (See Marsh and Church.)						
Church, Duane H. (See Marsh, Logan, and Church.)						
Church, Duane H., Newton, Mass. Pendant winding and setting watch	357,906	Feb. 15	1691	441	38	754
Church, Duane H., Newton, Mass. Stem winding and setting watch	370,929	Oct. 4	285	70	41	57
Church Engineering Company, Walter C. (See Church, Walter C., assignor.)						
Church, Frank, Du Bois, Nebr. Hame	374,657	Dec. 13	697	183	41	1192
Church, Frank L. W., Chicago, Ill. Traction-cable device for bridges	372,402	Nov. 1	173	49, 50	41	502
Church, George W., assignor of one-half to C. W. Frost, Bowdoinham, Me. Top pressure for feed-rolls	359,667	Mar. 22	1832	465	38	1272
Church, John, Patoka, Ill. Tool for making and applying hog-nose rings	364,089	May 31	2870	744	39	1046
Church, Melvin B., Grand Rapids, Mich. Advertising-circular	372,301	Nov. 1	22	7	41	475
Church, Melvin B., Grand Rapids, Mich. Enameled surface for carriages and the like	373,014	Nov. 8	1108		41	682
Church, Walter A., Binghamton, N. Y. Balance-rail pin for pianos	373,924	Nov. 29	2469	663	41	969
Church, Walter C., Brixton, county of Surrey, assignor to W. C. Church Engineering Com- pany, (limited.) London, England. Circular slide-valve	356,984	Feb. 1	338	89	38	485
Churchill, Frank C. (See Carter and Churchill.)						
Churchill, Thomas A., Galesville, Ill. Broadcast seeder	370,120	Sept. 20	1176	311	40	1270
Cilley, Bradbury P., et al. (See Dow, George B. N., assignor.)						
Cilley, Ithiel J., assignor of one-half to G. W. Carpenter, Grand Rapids, Mich. Combined latch and lock	356,646	July 19	1235	330	40	251
Cilley, J. P., et al. (See Knowlton, Charles H., assignor.)						
Cilley, John H., Lebanon, Pa. Velocipede	358,730	Mar. 1	459	{ 111 } { 112 }	{ 38 }	989
Cilley, Johnathan H., et al. (See Knowlton, Charles H., assignor.)						
Cilley, Sewell J. (See Carroll and Cilley.)						
Cilley, Sewell J., Gonic, and T. F. Carroll, Laconia, N. H. Bit-stock	361,488	Apr. 19	1564	406	39	307
City Button Works. (See Sheridan, James T., assignor.)						
Cincinnati Screw and Tap Company. (See Holz and Mueller, assignors.)						
Cincinnati Suspender Company. (See Allen, Valentine R., assignor.)						
Cissell, Robert B., Elizabeth, assignor to Backus Manufacturing Company, Newark, N. J. Rotary fan	364,751	June 14	771	205	39	1241
Cladek, Frank T., Rahway, N. J. Bolt	374,451	Dec. 6	403	105	41	1122
Claffin, Charles R. B., Jr. (See Flagg and Claffin.)						
Clague, William H. H. (See Gleason and Clague.)						
Clague, William H. H., assignor to P. J. Schlicht and L. Field, Rochester, N. Y. Paper- file	373,388	Nov. 15	1681	446	41	799
Clamer, Francis J., assignor of one-half to J. G. Hendrickson, Philadelphia, Pa. Clean- ing, preparing, and coating metal plates and other metal surfaces	363,593	May 24	2160	560	39	905
Clamond, Charles, Paris, France. Micro-telephone	372,455	Nov. 1	251	70	41	518
Clancy, Edward L., Aberdeen, Dak. Ter. Frame for sulky-plows	369,588	Sept. 6	376	104	40	1106
Clapp, Charles, assignor to Gregg & Co., Trumansburg, N. Y. Grain-harvester	370,608	Sept. 27	1888	{ 501 } { 502 }	{ 40 }	1411
Clapp, Charles, assignor to Gregg & Co., Trumansburg, N. Y. Harvester	370,609	Sept. 27	1892	{ 502 } { 503 }	{ 40 }	1411
Clapp, E. Dwight, assignor to W. Henderson and D. J. Macarty, Washington, D. C. An- nunciator	363,315	May 17	1752	{ 459 } { 460 }	{ 39 }	817
Clapp, James H., assignor to J. L. Board, Chicago, Ill. Automatic brake for power-presses	365,047	June 21	1222	323	39	1333
Clapp, James W. (See Clapp, Joseph, assignor.)						
Clapp & Jones Manufacturing Co. (See Clapp, Mirtillow R., assignor.)						
Clapp, Joseph, Evanston, Ill. Automatic fire-extinguisher	360,142	Mar. 29	2614	662	38	1420
Clapp, Joseph, Evanston, Ill., assignor to J. W. Clapp, Boston, Mass. Fire-extinguisher	357,817	Feb. 15	1573	410	38	732
Clapp, Mirtillow R., assignor to Clapp & Jones Manufacturing Co., Hudson, N. Y. Coiled- tube boiler	358,430	Mar. 1	9	3	38	905
Clare, Samuel, and E. W. Smith, Winnipeg, Manitoba, Canada. Billiard-cue chalker	367,364	Aug. 2	16	4	40	454
Clarenbach, Louis, Jr. (See Bosson, Henry D., assignor.)						
Clark, A. Ralph. (See Baynes, William, assignor.)						
Clark, A. Ralph. (See Baynes and Clark.)						
Clark, A. Ralph, assignor of one-half to W. Baynes, Buffalo, N. Y. Lumber-binder	357,818	Feb. 15	1574	410	38	732
Clark, Alexander E., Buckholts, Tex. Deep-well pump	359,668	Mar. 22	1832	465	38	1272
Clark, Alfred, Warren, Pa. Rope-coupling	368,378	Aug. 16	1501	400	40	754
Clark, Alfred L., Dubuque, Iowa. Store-service apparatus	359,203	Mar. 8	1115	291	38	1116
Clark, Alfred S., Farmington, Minn. Spring bed-bottom	357,064	Feb. 1	453	120	38	506
Clark, Alvah B., Auburn, assignor to R. M. Peters, Worcester, Mass. Lasting-jack	371,305	Oct. 11	807	206	41	166
Clark, Amzi, Mendon, Mich. Bolt-holder	358,016	Feb. 22	1844	488	38	788
Clark, Asa, assignor to M. Hill, Kalamazoo, Mich. Harrow or cultivator tooth	356,985	Feb. 1	339	90	38	485
Clark, Charles, Brooklyn, N. Y. Sand-box for street-cars	368,812	Aug. 23	2122	562	40	881
Clark, Charles A., St. John, New Brunswick, Canada. Hay and straw cutter	360,559	Apr. 5	248	61	39	48
Clark, Charles E., et al. (See Pelton, George M., assignor.)						
Clark, Charles E., Clay Centre, Ohio. Door-hanger	363,803	May 31	2468	641	39	969
Clark, Christopher C., et al. (See Clark, John C., assignor.)						
Clark & Co., George M. (See Clark, Wallace, and Kindlen, assignors.)						
Clark & Company, George M. (See Kaczerowski, Frank, assignor.)						
Clark & Company, George M. (See Murphy, John W., assignor.)						
Clark & Company, George M. (See Wallace, J. Bennett, assignor.)						
Clark, Council H., assignor of one-half to J. H. Porter, Caldwell, Tex. Seed-planter	362,607	May 10	763	210	39	622

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Clark, D. W., <i>et al.</i> (See Slote, William, assignor.)						
Clark, Dallas P., Jersey City, N. J., assignor of one-half to R. Vose New York, N. Y. Leaf-spring	374,041	Nov. 29	2634	707	41	1001
Clark, Dan W., Dodgeville, Wis. Dental mandrel and disk	368,457	Aug. 16	1628	435	40	778
Clark, Daniel W. (See Nichols and Clark.)						
Clark, David O. (See Dow, Edward E., assignor.)						
Clark, Dwight S., Cambridgeport, assignor to W. H. Forbes, Boston, Mass. Angular paper box	355,862	Jan. 11	795	209	38	161
Clark, Dwight S., Cambridgeport, assignor to W. H. Forbes, Boston, Mass. Angular paper box	356,747	Feb. 1	11	4	38	425
Clark, Dwight S., Cambridgeport, assignor to W. H. Forbes, Boston, Mass. Manufacture of books and pamphlets	375,125	Dec. 20	1397	{ 363 364 }	{ 41 41 }	1332
Clark, Dwight S., Cambridgeport, assignor to W. H. Forbes, Boston, Mass. Ink-fountain for printing-presses	375,126	Dec. 20	1400	364	41	1332
Clark, Dwight S., Cambridge, and W. C. Wendt, Lancaster, assignors to W. H. Forbes, Boston, Mass. Chromatic-printing machine	367,024	July 26	1732	{ 466 467 }	{ 40 40 }	352
Clark, Edward L., Pittsburg, Pa. Bale-tie hook	363,116	May 17	1493	395	39	766
Clark, Edward L., Pittsburg, Pa. Manufacture of bale-tie hooks	363,804	May 31	2129	641	39	969
Clark, Edward L., Pittsburg, Pa. Gas-furnace	364,215	June 7	24	7	39	1093
Clark, Ellen H., <i>et al.</i> (See Norcross, Andrew D., assignor.)						
Clark, Elisha W., Senta, Fla. Cotton-chopper	369,316	Sept. 6	15	4	40	1038
Clark, Emma T. L., London, county of Middlesex, England. Hardening and preserving plaster-of-paris casts and molds and making them impervious to water, &c.	371,550	Oct. 18	1152	.....	41	243
Clark, Emri W., Nashua, N. H. Fishing-buoy	360,418	Apr. 5	23	7	39	6
Clark, Ernest P., assignor of part to A. E. Applegate and J. H. Seymour, New York, N. Y. Electric motor	359,429	Mar. 15	1454	371	38	1186
Clark, Ezra E., Northampton, Mass. Vertical compound balanced duplex pumping-engine	358,591	Mar. 1	269	62	38	953
Clark, Francis L., Saratoga, Mo. Wagon-brake	366,458	July 12	947	258	40	188
Clark, Frank H. (See Gribben, John, assignor.)						
Clark, Frank M., assignor to T. Hawley, Boston, Mass. Saw-horse	368,192	Aug. 16	1237	330	40	702
Clark, George M., Higganum, Conn. Thrust-bearing journal-box	356,099	Jan. 18	1161	307	38	238
Clark, George M., Higganum, Conn. Potato-digger	363,117	May 17	1494	395	39	766
Clark, George M., Higganum, Conn. Reversible sulky-plow	367,188	July 26	1963	531	40	395
Clark, George M., Higganum, Conn. Disk-harrow	369,163	Aug. 30	2614	694	40	986
Clark, George M., Chicago, Ill. Lamp	359,845	Mar. 22	2121	534	38	1323
Clark, George M., J. B. Wallace, and J. H. Kindlen, assignors to G. M. Clark & Co., Chicago, Ill. Lantern-frame	363,364	May 24	1821	478	39	839
Clark, George P., Windsor Locks, Conn. Adjustable hub for ventilating-fans	367,595	Aug. 2	347	99	40	518
Clark, George W. (See McDonnell and Mallen, assignors.)						
Clark, George Z., Topeka, Kans. Lubricator for steam machinery	366,714	July 19	1332	356	40	269
Clark, George Z., assignor of one-half to R. Witley, Topeka, Kans. Valve-operating mechanism	359,131	Mar. 8	1025	266	38	1100
Clark, Henry M. (See Camp, Julius F., assignor.)						
Clark, Henry W. (See Clark, James, assignor.)						
Clark, Herbert A., Attleborough, Mass. Cuff-fastener	373,272	Nov. 15	1499	395	41	765
Clark, Herbert M. (See Swan, Henry C., assignor.)						
Clark, Hiram, Syracuse, N. Y. Countersink	358,731	Mar. 1	460	112	38	989
Clark, Hulbert H., Danville, Ill. Fracture apparatus	369,839	Sept. 13	732	196	40	1182
Clark, J. D., <i>et al.</i> (See Slote, William, assignor.)						
Clark, J. H. (See Meston, Alexander W., assignor.)						
Clark, J. Hinckley, <i>et al.</i> (See Frishmuth, William, assignor.)						
Clark, James, assignor to H. W. Clark, Medina, N. Y. Oscillating steam-engine	371,250	Oct. 11	730	187	41	152
Clark, James H., Chicago, Ill. Sewer	356,448	Jan. 25	1652	433	38	338
Clark, James T., Denver, Colo. Nut-lock	357,467	Feb. 8	1042	275	38	624
Clark, James W., Etna, Ohio. Post-hole digger	358,335	Feb. 22	2294	605	38	873
Clark, Jeremiah G., and E. W. Haynes, Franklin Falls, N. H. Grate-shaker	361,345	Apr. 19	1372	353	39	271
Clark, John, assignor of one-half to M. Gilmartin, Green Point, N. Y. Pipe-wrench	356,986	Feb. 1	340	90	38	485
Clark, John, assignor of one-half to M. Gilmartin, Brooklyn, N. Y. Pipe-wrench	367,596	Aug. 2	348	99	40	518
Clark, John C., assignor to C. C. Clark, Deep River, and C. T. Ward, New Haven, Conn. Device for applying foot-power to crank-wheels	359,559	Mar. 15	1658	423	38	1223
Clark, John E., Montrose, Minn. Car-brake	361,264	Apr. 19	1264	323	39	252
Clark, John H., and J. Lines, assignors to Scovill Manufacturing Company, Waterbury, Conn. Wick-tube	371,033	Oct. 4	435	109	41	86
Clark, John K., assignor to M. K. Clark, Buffalo, N. Y. Railway-tie	362,608	May 10	763	{ 210 211 }	{ 39 39 }	622
Clark, John L., Bangor, Me. Book-holder	362,060	May 3	13	4	39	475
Clark, John W., Jones Valley, Tenn. Cultivator	366,927	July 19	1606	430	40	321
Clark, John W., Hamilton, Ohio. Fence machinery	368,753	Aug. 23	2043	541	40	866
Clark, Joseph, Brooklyn, N. Y. Metallic railway tie and chair	358,144	Feb. 22	2037	536	38	822
Clark, Lyman L., <i>et al.</i> (See Norcross, Andrew D., assignor.)						
Clark, Lyman W., Albany, Oreg. Cutter mechanism for reapers	374,397	Dec. 6	319	84	41	1107
Clark, Mary K. (See Clark, John K., assignor.)						
Clark, Michael M., and P. McKernan, Shenandoah, Pa. Overshoe	371,738	Oct. 18	1428	368	41	299
Clark, Nicholas P., Lincoln, R. I., and H. D. Stone, assignors to E. B. Seaver, Boston, Mass. Sole-laying machine	368,131	Aug. 9	1142	303	40	676
Clark, Norman, Sterling, Ill. Magnifying-glass	362,492	May 10	596	168	39	594
Clark, Norman, Sterling, Ill. Dental plugger	368,458	Aug. 16	1628	435	40	778
Clark, Norman, Sterling, Ill. Latch	373,442	Nov. 22	1761	467	41	825
Clark, Richard, Camden, assignor to W. Coffin, Ashland, N. J. Car-coupling	360,657	Apr. 5	377	96	39	72
Clark, Walter, New York, N. Y. Photographic camera	361,672	Apr. 26	1843	{ 477 478 }	{ 39 39 }	369
Clark, Walter, New York, N. Y. Photographic camera	361,673	Apr. 26	1844	478	39	369
Clark, Walter, New York, N. Y. Box-lock	365,048	June 21	1223	323	39	1333
Clark, Walter B., Covington, Ky. Automatic brake	360,419	Apr. 5	24	8	39	7
Clark, Willard D., <i>et al.</i> (See Connett and White, assignors.)						
Clark, William N., Jr. (See Hardy and Clark.)						
Clark, William P., <i>et al.</i> (See Pelton, George M., assignor.)						
Clark, William P., Medford, Mass. Draft-tube for effervescing drinks	358,650	Mar. 1	342	82	38	967
Clark, William P., Elberton, Ga. Hand-power for sewing-machines	368,379	Aug. 16	1501	400	40	754
Clark, William P., assignor of one-half to T. M. Swift, Elberton, Ga. Combined plow and harrow	369,589	Sept. 6	378	105	40	1107
Clark, William T., Burlingame, Kans. Marking-tag	361,987	Apr. 26	2301	599	39	450
Clark, William W. (See Bingham, Samuel J., assignor.)						
Clarke, Charles L., East Orange, N. J. Insulating-tube for electric conductors	358,592	Mar. 1	271	63	38	953

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Clarke, Charles L., East Orange, N. J., assignor to Telemeter Company, of New York. Electric-clock system	367,960	Aug. 9	913	247	40	633
Clarke, Christopher, Northampton, Mass. Lawn-weeding implement	357,907	Feb. 15	1692	441	38	754
Clarke, David W., Tidioute, Pa. Window-sash	370,930	Oct. 4	288	70	41	57
Clarke, F. De Witt, <i>et al.</i> (See Whipple, Henry D., assignor.)						
Clarke, George H. (See Delano, John W., assignor.)						
Clarke, Greville E., Racine, Wis. Nut-lock	363,594	May 24	2162	560	39	905
Clarke, Greville E., and F. Harbridge, Racine, Wis. Nut-lock	359,132	Mar. 8	1026	266	38	1100
Clarke, John L., Baltimore, Md. Backing for plastering	374,826	Dec. 13	941	245	41	1240
Clarke, Peter. (See Reed, William T., assignor.)						
Clarke, Reuben, assignor of two-thirds to W. F. Munro, Toronto, Ontario, Canada. Hanger for sliding doors and windows	375,260	Dec. 20	1570	412	41	1368
Clarke, Thomas, Truro, and R. C. Williams, Hopewell, Nova Scotia, Canada. Spindle-driving mechanism for spinning-machines	375,605	Dec. 27	2045	530	41	1466
Clarke, William, Grand Rapids, Mich. Device for hitching animals	366,647	July 19	1237	331	40	252
Clarke, William H. (See Butler and Clarke.)						
Clarke, William P., Winnipeg, Manitoba, Canada. Spool-holder	359,430	Mar. 15	1455	372	38	1186
Clarke, William P., Winnipeg, Manitoba, Canada. Scarf-holder	368,380	Aug. 16	1502	401	40	754
Clarkson, George H. (See Dougherty, Tiberias, assignor.)						
Clarkson, William H. (See Moulton and Clarkson.)						
Clason, Louis T., Springfield, Ohio. Wagon-body	368,754	Aug. 23	2045	541	40	866
Class, John, Canton, Ohio. Seesaw and merry-go-round	368,652	Aug. 23	1887	503	40	836
Class, John, Canton, Ohio. Removable saw-tooth	369,919	Sept. 13	856	226	40	1205
Clator, John E., Wheeling, W. Va. Extensible ladder	362,609	May 10	765	211	39	622
Claud-Mantle, Joseph G., Antwerp, Belgium. Apparatus for placing and obtaining the mean value of ordinates	359,499	Mar. 15	1556	397	38	1204
Claudy, Christ, assignor of one-half to A. J. Seiler, Cincinnati, Ohio. Window attachment	375,341	Dec. 27	1682	442	41	1398
Cloughton, Rodolphe, Washington, D. C. Furniture-caster	363,047	May 17	1397	369	39	748
Claus, Charles H. T., St. Louis, Mo. Wardrobe	363,595	May 24	2162	561	39	905
Clauson, Charles C., New York, N. Y. Furnace for malt-kilns	370,931	Oct. 4	289	71	41	58
Clauss, Charles, Philadelphia, Pa. Vegetable and fruit grater	366,459	July 12	948	259	40	189
Clauss, Frederick, Elizabeth, N. J. Shears	362,572	May 10	708	197	39	613
Claussen, Edward E., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper bag	363,596	May 24	2164	561	39	906
Claussen, Edward E., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper-bag machine	374,345	Dec. 6	252	67	41	1094
Clawson, Clement C., Newark, N. J., assignor to United States Machine and Inventions Company, of New York. Automatic weighing and package-filling machine	360,510	Apr. 5	167	42	39	32
Clawson, Clement C., Newark, N. J., assignor to United States Machine and Inventions Company, of New York. Automatic weighing and package-filling machine	360,511	Apr. 5	170	42, 43	39	33
Clawson, Clement C., Newark, N. J., assignor to United States Machine and Inventions Company, of New York. Feeding mechanism for automatic weighing and package-filling machines	360,512	Apr. 5	176	43	39	34
Clawson, Clement C., Newark, N. J., assignor to United States Machine and Inventions Company, of New York. Automatic weighing and package-filling machine	360,513	Apr. 5	178	44	39	35
Clawson, Clement C., Newark, N. J., assignor to United States Machine and Inventions Company, of New York. Recording weighing-machine	366,303	July 12	754	{ 204 205 }	{ 40 }	150
Clawson, William S. (See Dennis and Clawson.)						
Clay, Moses W., Neosho, Mo., assignor of one-third to J. A. Baldwin, Chicago, Ill. Sewing-machine	360,087	Mar. 29	2514	640	38	1403
Clay, Robert J., Jersey City, N. J., and W. Hanson, Brooklyn, assignors to New York Standard Watch Company, New York, N. Y. Escapement for time-pieces	356,189	Jan. 18	1279	337	38	259
Claypool, Albert, Toledo, Ohio. Gas or vapor heating apparatus	366,569	July 12	1118	300	40	223
Claypool, Albert, Toledo, Ohio. Medicine-cabinet	369,590	Sept. 6	379	{ 105 106 }	{ 40 }	1107
Clayton, George W., <i>et al.</i> (See Loftus, James, assignor.)						
Clayton, Henry H., Hyde, county of Chester, England. Machine for winding laps of cotton, &c.	355,508	Jan. 4	276	73	38	56
Clayton, Herbert, Cincinnati, Ohio. Lamp-stove	372,518	Nov. 1	338	93	41	534
Clayton, John, Wadena, Minn. Wheel-plow	364,899	June 14	1006	{ 263 264 }	{ 39 }	1283
Clayton, Nicholas J., Galveston, Tex. Composition to be used as a non-conductor of heat and for other purposes	369,099	Aug. 30	2542	.....	40	970
Clayton, William E., Huntington, Ind. Pipe wrench and cutter	364,090	May 31	2871	744	39	1046
Clayton, William H., Villa Rica, Ga. Sewing-machine motor	364,216	June 7	25	7	39	1093
Clearwater, G. A., <i>et al.</i> (See Howe, Thomas B., assignor.)						
Cleary, James K., Washington, D. C. Necktie or cravat fastening	356,680	Jan. 25	1974	519	38	400
Cleary, James K., Washington, D. C. Show stand or case	369,044	Aug. 30	2458	652	40	955
Cleary, John H., <i>et al.</i> (See Titcomb, George O., assignor.)						
Cleaveland, Charles E. (See Spinner, Andrew J., assignor.)						
Cleaveland, John B., Indianapolis, Ind. Wire-stretcher	366,076	July 5	445	121	40	84
Cleaveland, John B., Indianapolis, Ind. Wire-stretcher	375,127	Dec. 20	1401	364	41	1333
Cleaveland, Wallace W., Marshall, Mich. Car-seat rest	364,900	June 14	1007	264	39	1284
Cleaver, David, Lebanon, Ky. Wire-stretcher	363,805	May 31	2470	641	39	969
Cleaver, Julia W., <i>et al.</i> (See Lambertson, Spofford W., assignor.)						
Cleaver, William P., <i>et al.</i> (See Lambertson, Spofford W., assignor.)						
Clelland, L., <i>et al.</i> (See Pfister, Lewis, assignor.)						
Clement, Charles E., Nashua, N. H. Printing-press	356,867	Feb. 1	177	47, 48	38	455
Clement, James. (See Kenton, Levi C., assignor.)						
Clement, John F., Philadelphia, Pa. Impact-tool	364,481	June 7	389	106	39	1161
Clement, Nelson, Chicago, Ill. Holder for pens and pencils	356,524	Jan. 25	1755	457	38	357
Clement, Nelson, Chicago, Ill. Ore-pulverizer	357,369	Feb. 8	896	{ 236 237 }	{ 38 }	597
Clemeson, George A. (See Johnson and Clemeson.)						
Clemmer, George H., Arcanum, Ohio. Fodder-press	371,739	Oct. 18	1428	369	41	299
Clemons, George F., Springfield, Mass. Differential hoisting-machine	372,839	Nov. 8	847	{ 225 226 }	{ 41 }	635
Clemons, Henry, Castalia, Ohio. Double-acting bolt	373,338	Nov. 15	1598	422	41	783
Clemson, George N., and W. Millspaugh, assignor to Wheeler, Madden & Clemson Manufacturing Company, Middletown, N. Y. Tool-holder	360,854	Apr. 12	651	171	39	128
Clerke, Alfred A. (See Stuntz and Clerke.)						
Clerke, Helen G., <i>et al.</i> , executors. (See Stuntz and Clerke.)						
Cleveland, Charles A., Worcester, Mass. Steam-packing	360,560	Apr. 5	248	62	39	48
Cleveland, Charles E., and J. Hanson, Fort Wayne, Ind. Offset for saw-mill carriages	369,982	Sept. 13	959	253	40	1223

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Cleveland Target Company. (See Damm, Fredrick C., assignor.)						
Cleveland Target Company. (See Hebbard, Charles C., assignor.)						
Click, William, Auburn, Ind. Feed-water heater	356,168	Feb. 1	189	48	38	455
Cliff, Edward, Oswego, assignor of one-half to R. Vose, New York, N. Y. Vehicle-spring.	370,010	Sept. 27	1896	503	40	1412
Cliff, Walter, Wortley, near Leeds, England, assignor to J. L. Mott Iron Works, New York, N. Y. Bath-tub	363,018	May 17	1398	370	39	748
Clifford, Dennis M. (See Haynes, Warren H., assignor.)						
Clifford, Isidore E., London, county of Middlesex, England. Shaft for screw-propellers	373,339	Nov. 15	1599	422	41	783
Clifford, John, assignor to L. Wolff Manufacturing Company, Chicago, Ill. Water-closet	357,908	Feb. 15	1693	441	38	755
Clifford, John, assignor to L. Wolff Manufacturing Company, Chicago, Ill. Urinal-stall	358,651	Mar. 1	344	83	38	967
Clifford, John, assignor to L. Wolff Manufacturing Company, Chicago, Ill. Ball-cock	359,059	Mar. 8	936	838	58	1082
Clifford, John, assignor to L. Wolff Manufacturing Company, Chicago, Ill. Water-closet supply-tank	360,658	Apr. 5	379	96	39	72
Clifford, John M., assignor to G., Jr., and J. B. Reid, Toronto, Ontario, Canada. Lumber-rule	367,365	Aug. 2	17	4	40	454
Clifford, Patrick, and J. Coupal, Wollaston, Mass. Machine for grooving wire	371,424	Oct. 11	978	255	41	199
Clift, James S., et al. (See Felt and King, assignors.)						
Clifton, Edward, Lowell, Mass. Oven for tempering wire, &c.	356,350	Jan. 18	1510	397	38	304
Climax Fuse Company. (See Andrews, Albert F., assignor.)						
Climax Fuse Company. (See Saunders, George A., assignor.)						
Climenson, William W. (See Vintree and Climenson.)						
Cline, Frank X., and A. Cornstadt, Portland, Oreg. Book holder and cover	370,244	Sept. 20	1341	358	40	1302
Cline, George J., Goshen, Ind. Brush-handle attachment	365,329	June 21	1635	427	39	1409
Cline, George J., assignor of one-half to W. B. Lehman, Goshen, Ind. Fence-machine	363,313	May 17	1757	460	39	818
Cline, George J., assignor of one-half to W. B. Lehman, Goshen, Ind. Road-cart	363,727	May 24	2358	612	39	942
Cline, George J., assignor to L. H. and J. M. Noble, Goshen, Ind. Brush-handle attachment	368,070	Aug. 9	1065	284	40	661
Cline, Jacob R. (See Moats, Andrew F., assignor.)						
Cline, Lincoln P. (See Chamberlain and Cline.)						
Cline, Theodore S., Detroit, Mich. Organ-valve	362,061	May 3	14	4	39	475
Clingman, George F., Chicago, Ill. Combination bureau and cheval glass	367,597	Aug. 2	349	99	40	518
Clinton, Charles M., Ithaca, assignor to C. C. Bradley, Syracuse, N. Y. Railway time-signal	357,065	Feb. 1	454	120	38	506
Clinton, Charles W., New York, N. Y. Counter-gate for banks, &c.	375,532	Dec. 27	1931	506	41	1446
Clinton, Miles L., assignor to S. C. Clinton, Ithaca, N. Y. Steam-boiler	372,519	Nov. 1	339	93, 94	41	535
Clinton, Sarah C. (See Clinton, Miles L., assignor.)						
Clinton Wire Cloth Company. (See Lee, Orange S., assignor.)						
Clinton Wire Cloth Company. (See Sawyer, Caleb K., assignor.)						
Clinton Wire Cloth Company. (See Scarles, Benjamin, assignor.)						
Clinton Wire Cloth Company. (See Steward, Joseph M., assignor.)						
Clinton Wire Cloth Company. (See Swinscoe, Charles, assignor.)						
Clisbee, Clarence E., Boston, Mass. Insulated can	358,732	Mar. 1	461	112	38	989
Clokey, Josiah M., Decatur, Ill. Branch conduit for electrical conductors	361,265	Apr. 19	1266	323	39	252
Close, G. Albertus, Bridgeport, Conn. Dress-shield and making the same	360,143	Mar. 29	2615	663	38	1420
Close, G. Albertus, assignor to T. P. Taylor, Bridgeport, Conn. Dress-shield and making the same	373,273	Nov. 15	1500	396	41	765
Close, Walter R., assignor of one-fourth to A. J. Chapman, Bangor, Me. Wind-engine	366,204	July 12	619	169	40	125
Close, Walter R., assignor of one-fourth to A. J. Chapman, Bangor, Me. Automatic regulating device for power-transmitters	368,570	Aug. 23	1783	475	40	816
Closs, Gotthold. (See Schnurmann and Closs.)						
Closs, Peter, Cambridgeport, and J. A. Hearn, Boston, Mass.; said Closs and Hearn assignors to said Hearn. Pocket memorandum or other book with detachable cover	371,425	Oct. 11	379	255	41	199
Clother, Jane A., Cumberland, Wis. Combined heating and cooking stove	367,133	July 26	1892	512	40	381
Cloud, J. A. (See Howard, Edmund L., assignor.)						
Cloud, John W., Altoona, Pa. Railway-signal lantern	355,438	Jan. 4	183	50	38	37
Cloud, John W., Altoona, Pa. Car-wheel	355,681	Jan. 11	528	139	38	113
Cloud, John W., Altoona, Pa. Fire-extinguishing appliance	360,998	Apr. 12	877	221	39	166
Cloud, John W., Buffalo, N. Y. Car-axle box	370,449	Sept. 27	1646	439	40	1367
Cloud, John W., Buffalo, N. Y. Car-wheel. (Reissue)	10,869	Oct. 4	607	156	41	120
Cloud, Robert W., Van Buren, Ohio. Railway-switch	375,048	Dec. 20	1281	334	41	1310
Cloud, William J., Junction City, Tex. Warning-strip for wire fences	367,893	Aug. 9	813	219	40	615
Cloudman, Francis A., Cumberland Mills, Me., assignor to S. D. Warren & Co., Boston, Mass. Clearer for pulp-screens	356,926	Feb. 1	253	70	38	468
Clough, Edwin R., and E. M. Flynn, Lebanon, Mo. Fire-kindler	373,340	Nov. 15	1600	422	41	783
Clough, Joseph. (See Baker, James M., assignor.)						
Clough & Warren Organ Company. (See Harper and Hoover, assignors.)						
Clough, Willard E., assignor of two-thirds to P. Pethick, Concord, N. H., and C. D. Austin, Brookline, Mass. Cutting apparatus for mowers	360,374	Mar. 29	2951	750	38	1481
Clough, William P., Boston, assignor of one-half to G. F. Loring and S. Z. Bowman, Somerville, Mass. Photograph-card	370,727	Sept. 27	2074	550	40	1445
Clough, William R., New York, N. Y. Wire screw	363,597	May 24	2165	561	39	906
Clouse, Joseph N., Toledo, Ohio. Vehicle-wheel	366,620	July 12	1195	320	40	236
Clow, Daniel, Janesville, Wis. Transplanter for tobacco and other plants	371,426	Oct. 11	981	256	41	199
Clow, George S., North Indianapolis, Ind. Seythe-snath coupling	360,561	Apr. 5	249	62	39	48
Clow, Henry A., Des Moines, Iowa. Wire-barbing machine	361,928	Apr. 26	2205	572	39	434
Clow, Thomas C. (See Quinby and Clow.)						
Clow, Thomas C., assignor of one-half to H. B. Quinby, Lake Village, N. H. Making stockings and hose	358,383	Feb. 22	2364	628	38	885
Clow, William M., East Wheatland, Ill. Wire-fence stay	368,459	Aug. 16	1630	436	40	778
Cluever, Henry. (See Thelen and Cluever.)						
Cluse, William, Tottenham Court Road, county of Middlesex, England. Fire-escape	370,685	Sept. 27	2001	532	40	1432
Clute, Maus V., St. Charles, Ill. Stove-truck	371,924	Oct. 25	1703	441	41	362
Cluthe, Charles, Toronto, Ontario, Canada. Truss	364,482	June 7	392	106	39	1162
Coale, Joseph M., and W. Brumble, Baltimore, Md. Seal-lock	375,668	Dec. 27	2136	555	41	1483
Coate, Henry C. (See Jay and Coate.)						
Coats, Harry A., Newark, N. J. Apparatus for cooking starch	374,346	Dec. 6	252	67	41	1094
Coats, Henry C., and J. Jay; said Coats assignor to M. W. Lauver and M. T. Anewelt, Pleasant Hill, Ohio. Fence	357,979	Feb. 15	1798	471	38	774
Cobb, Alphonso H., Rockland, Me. Fountain-pen	357,176	Feb. 8	646	168	38	550
Cobb, Benjamin P., Odessa, Mo. Paper-bag reel	355,973	Jan. 11	977	256	38	198
Cobb, Benjamin P., Odessa, Mo. Chicken-coop	372,966	Nov. 8	1031	276	41	669
Cobb, Henry B., Wilmington, Del. Skate-roller	357,570	Feb. 15	1224	322	38	668

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Cobb, Rollin A., <i>et al.</i> (See Winfield, William C., assignor.)						
Cobb, Rollin A., Warren, Ohio. Tubular lantern	355,385	Jan. 4	124	33	38	26
Cobb, Rollin A., Warren, Ohio. Tubular lantern. (Reissue)	10,841	June 7	586	157	39	1198
Cobb, Thomas M., Grand Rapids, Mich. Bee-hive	375,261	Dec. 20	1571	412	41	1368
Coblens, Isidore. (See Stern, William A., assignor.)						
Coburn, Azro A., assignor to Coburn-Taylor Manufacturing Company, Holyoke, Mass. Machine for cutting rags, &c	359,846	Mar. 22	2122	534	38	1323
Coburn, Gilman R., Chelsea, Mass. Mold for molding heels for boots or shoes	364,217	June 7	26	8	39	1093
Coburn, Henry, <i>et al.</i> (See Byrkit, Edwin M., assignor.)						
Coburn, Lemuel, Holyoke, Mass. Trolley-track	365,240	June 21	1498	394	39	1384
Coburn-Taylor Manufacturing Company. (See Coburn, Azro A., assignor.)						
Cochard, Alexander, and J. Gano, New York, N. Y. Shutter-fastener	365,795	July 5	47	14	40	11
Cochran, Andrew. (See Logan, William P., assignor.)						
Cochran, Harry B. (See Denney, Samuel L., assignor.)						
Cochran, Loyal Y., Allegheny City, Pa., and W. I. Lindsay, Cleveland, Ohio. Furnace fuel-feeder	368,813	Aug. 23	2125	563	40	881
Cochran, William A., Edinburg, assignor of two-thirds to H. G. Solomon, Hope, and J. Wintrobe, Huntington, Ind. Apparatus for making fences	364,396	June 7	257	73	39	1138
Cochrane, James, Derby Township, county of Gray, Ontario, Canada. Wagon-box	360,562	Apr. 5	251	62	39	49
Cochrane, William F. (See Smith and Cochrane.)						
Cocker, Peter, assignor of one-half to T. Dolan, R. Williams, Jr., C. H. Salmon, and J. P. Truitt, Philadelphia, Pa. Cutting attachment for looms	361,929	Apr. 26	2207	573	39	434
Cockshutt, James G., deceased; E. H. Bond, Washington, D. C., administrator. Riding-plow	359,125	Mar. 8	1018	263	38	1098
Coddington, Frank J., assignor to W. E. Coddington and M. Popp, Lake View, Ill. Elevator-apron for harvesters	369,164	Aug. 30	2616	694	40	987
Coddington, Robert, New York, N. Y. Steam-heating apparatus for railway-cars	372,061	Oct. 25	1911	492	41	399
Coddington, William E., <i>et al.</i> (See Coddington, Frank J., assignor.)						
Codling, Robert B., Bristol, Conn. Polishing-machine	373,882	Nov. 29	2412	648	41	958
Cody, William F., <i>et al.</i> (See Patterson, Arthur H., assignor.)						
Coe, Daniel E., Trenton, N. J. Making worsted yarns, &c	361,266	Apr. 19	1267		39	253
Coenen, John. (See George, William E., assignor.)						
Coes, Loring, Worcester, Mass. Adjustable pipe-tongs	366,379	July 12	859	230	40	169
Coes, Loring, Worcester, Mass. Process of and apparatus for treating sewage	368,071	Aug. 9	1066	285	40	662
Coffan, Samuel P. (See North, William F., assignor.)						
Coffeen, Hattie S., Homer, Ill. Dress-shield	363,989	May 31	2742	711	39	1020
Coffin, Francis A., Indianapolis, Ind. Writing-desk	356,449	Jan. 25	1654	433	38	338
Coffin, Francis A., assignor to Indianapolis Cabinet Company, Indianapolis, Ind. Letter-file	365,433	June 28	1797	468	39	1451
Coffin, John, Johnstown, Pa. Process of and apparatus for toughening steel axles	367,961	Aug. 9	915	247	40	633
Coffin, John, Johnstown, Pa., assignor to Cambria Iron Company, of Pennsylvania. Manufacture of forged car-wheels	357,980	Feb. 15	1799	{ 471 472 }	{ 38 38 }	{ 774 774 }
Coffin, John, assignor to Cambria Iron Company, Johnstown, Pa. Apparatus for facilitating the cooling of railway-rails	368,132	Aug. 9	1144	{ 303 304 }	{ 40 40 }	{ 676 676 }
Coffin, Judson H., <i>et al.</i> (See Videto, Theodore H., assignor.)						
Coffin, Melvin H., Boston, Mass. Voting-machine	373,814	Nov. 25	2318	621	41	940
Coffin, William. (See Clark, Richard, assignor.)						
Coffin, William H. (See Hunger, Theodore, assignor.)						
Coffman, Jacob H., Philadelphia, Pa. Railway-tie	369,591	Sept. 6	321	106	40	1107
Coffman, Lewis C. (See Wood, Newel B., assignor.)						
Cogger, William B., Minneapolis, Minn. Door-hanger	375,342	Dec. 27	1683	442	41	1398
Cogger, William B., and H. A. Hamlin, Minneapolis, Minn. Door-hanger	357,580	Feb. 15	1225	322	38	669
Cogshall, H. F. (See Gates, Eugene N., assignor.)						
Coghill, John C., and C. H. Unselt, Paducah, Ky. Combined fertilizer-dropper and hill-former for tobacco-plants	360,205	Mar. 29	2707	684	38	1437
Cogswell, Mortimer C., Brooklyn, N. Y. Grinding-mill	367,189	July 26	1965	531	40	395
Cogswell, William B., Syracuse, N. Y. Apparatus for cooling saline solutions	362,938	May 17	1241	330	39	717
Cohen, Barnett S., London, England. Pencil-sharpener	370,182	Sept. 20	1263	335	40	1287
Cohen, Charles, assignor to H. Cohen, Gloversville, N. Y. Vehicle attachment for carrying oil-cans, &c	362,358	May 3	399	110	39	552
Cohen, Helen. (See Cohen, Charles, assignor.)						
Cohen, Morris R. (See Blumenthal and Steele, assignors.)						
Cohen, Stanley A., New York, N. Y. Playing-card	360,659	Apr. 5	381	96	39	72
Cohn, Albert L. (See Mitchell, Frederick J., assignor.)						
Cohn, Leopold A. (See Wise, Morris, assignor.)						
Cohn, Moritz, New York, N. Y. Dress-skirt spring	357,370	Feb. 8	897	237	38	597
Cohn, Sigmund, Milwaukee, Wis. Cigar-box	372,119	Oct. 25	2003	513	41	415
Coignet, Edmond, Paris, France. Apparatus for the preparation of concrete	369,920	Sept. 13	857	{ 226 227 }	{ 40 40 }	{ 1205 1205 }
Cokely, Michael. (See Wheeler and Cokely.) (Reissue.)						
Coker, Frank A. (See Aubrey, James M., assignor.)						
Colahan, Charles, Cleveland, Ohio. Grain-binder	358,918	Mar. 8	751	{ 186 187 }	{ 38 38 }	{ 1047 1047 }
Colahan, Charles, Cleveland, Ohio. Grain-binder	358,919	Mar. 8	752	{ 187 188 }	{ 38 38 }	{ 1047 1048 }
Colahan, Charles, Cleveland, Ohio. Grain-binder	358,920	Mar. 8	753	{ 188 189 }	{ 38 38 }	{ 1048 1049 }
Colahan, Charles, Cleveland, Ohio. Harvester and binder	358,922	Mar. 8	755	188	38	1048
Colahan, Charles, Cleveland, Ohio. Grain-binder	361,346	Apr. 19	7373	353	39	271
Colahan, Charles, Cleveland, Ohio. Oil-lamp	363,284	May 17	1,113	448	39	810
Colahan, Charles, Cleveland, Ohio. Grain-binder	369,693	Sept. 13	526	146	40	1144
Colahan, Charles, Cleveland, Ohio, and F. P. Rosback, Chicago, Ill.; said Rosback assignor to said Colahan. Grain-binder	358,921	Mar. 8	754	188	38	1048
Colam, William N. (See Nelson and Colam.)						
Colbow, William J., <i>et al.</i> (See Bowman, William M., assignor.)						
Colburn, Charles H. (See Daggett, John C., assignor.)						
Colburn, Frank D. (See Ruberg, Nelson C., assignor.)						
Colburn, Irving W., Fitchburg, Mass., assignor to H. Van Winkle & Co., Newark, N. J. Electrical resistance-board	372,012	Oct. 25	1826	473	41	384
Colby, Caleb K., Brooklyn, N. Y. Watch-movement box	355,509	Jan. 4	277	73	38	56
Colby & Co., J. (See Levy, Abraham, assignor.)						
Colby, Edward B., Brooklyn, N. Y. Heating-stove	374,939	Dec. 20	1128	295	41	1283
Colby, Edward J., Chicago, Ill. Pneumatic bell	357,699	Feb. 15	1398	368	38	700
Colby, Edward J., Chicago, Ill. Umbrella	359,431	Mar. 15	1455	372	38	1186
Colby, Edward J., Chicago, Ill. Watchman's time-recorder	359,999	Mar. 29	2363	{ 595 596 }	{ 38 38 }	{ 1374 1374 }

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Colby, Edward J., Chicago, Ill. Whip-lock	363,990	May 31	2743	711	39	1020
Colby, Edward J., Chicago, Ill. Electric alarm-clock	370,932	Oct. 4	290	71	41	58
Colby, Edward J., Chicago, Ill. Toy locomotive	373,223	Nov. 15	1435	379	41	753
Colby, Eva, administratrix. (See Colby, John D.)						
Colby, John D., deceased; E. Colby, administratrix, Lowell, Mass. Spinning-spindle and bolster therefor	357,066	Feb. 1	457	121	38	506
Colby, John W., Penacook, N. H., assignor of one-fourth to C. A. Cotterill, Washington, D. C. Mechanical telephone	371,551	Oct. 18	1153	300	41	243
Colcord, Otis B., Greenville, Ill. Butting attachment for harvesters	364,397	June 7	258	74	39	1138
Coldwell, Thomas, Newburg, N. Y. Brush-trimming machine	358,847	Mar. 22	2121	535	38	1323
Cole, Albert J., Waterloo, Iowa. Music-leaf turner	370,855	Oct. 4	153	41, 42	41	30
Cole, Ashley D., Toronto, Ontario, Canada. Turbine wheel	364,804	June 14	867	227	39	1257
Cole, Cary O., assignor of one-half to W. F. Henesley, Oskaloosa, Iowa. Automatic cigar-selling machine	368,874	Aug. 23	2206	587	40	898
Cole, Charles B. (See Cook, George W., assignor.)						
Cole, E. C. (See Tyler, Aaron J., assignor.)						
Cole, Everett L., Chicago, Ill. Safety-hatch for elevators	372,744	Nov. 8	679	186	41	608
Cole, Frederick W., Newton, Mass., assignor to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Signal-box	365,365	June 28	1687	440	39	1432
Cole, Henry B., Riverside, Cal. Tree-prop	358,017	Feb. 22	1845	488	38	788
Cole, James L., <i>et al.</i> (See Harding, John, Jr., assignor.)						
Cole, James W., Greencastle, Ind. Multiple subsidiary ground terminal for lightning-rods	362,062	May 3	15	5	39	475
Cole, Sidney W., Centre Road Station, Pa. Saw-mill dog	371,552	Oct. 18	1155	301	41	243
Cole, Thomas H., East Albany, N. Y. Reciprocating printing-machine	370,245	Sept. 20	1342	358	40	1302
Cole, Wesley, Detroit, Mich., assignor to H. R. Vandercook and F. N. Tucker, Chicago, Ill. Support for elliptic springs	373,516	Nov. 22	1895	502	41	850
Cole, William R., assignor of one-half to F. Edwards, Detroit, Mich. Store-service	369,772	Sept. 13	628	170	40	1162
Cole, William R., and J. E. Wyman, Detroit, Mich. Elevated railway	356,987	Feb. 1	341	90	38	486
Coleman, Ambrose B., Otterville, Ontario, assignor of one-half to J. W. Lang, Toronto, Canada. Manufacturing horse-collars, &c.	374,452	Dec. 6	404	105	41	1123
Coleman, Benjamin T., and C. Howard, Hubbard, Tex. Rotary cultivator	366,928	July 19	1607	430	40	321
Coleman, Edward G., St. John's, Newfoundland. Electric house-bell	360,660	Apr. 5	381	96	39	72
Coleman, Francis W., Rodney, Miss. Carrier for ash-pans	361,863	Apr. 26	2121	549	39	418
Coleman, Mary V., Atlanta, Ga. Cutting and fitting garments	357,762	Feb. 15	1506	393	38	719
Coleman, Minor S., Cotopaxi, Colo. Baling-press	373,341	Nov. 15	1600	{ 422 423 }	{ 41 }	783
Coleman Patent Candy Mould Manufacturing Company. (See Coleman, Walter E., assignor.)						
Coleman, Walter E., Brooklyn, N. Y. Manufacture of candies, toy confections, &c.	356,450	Jan. 25	1655	434	38	339
Coleman, Walter E., Brooklyn, assignor to Coleman Patent Candy Mould Manufacturing Company, New York, N. Y. Mold to be used in the manufacture of candy	371,176	Oct. 11	630	161	41	132
Coleman, William S., A. C. Armentrout, and G. P. Sweitzer; said Armentrout assignor, by mesne assignments, to E. C. Haysler, Salisbury, Mo. Bow-spring rest for carriages	362,818	May 10	1066	{ 289 290 }	{ 39 }	678
Coles, Henri H., Philadelphia, Pa. Grinding-mill	375,533	Dec. 27	1932	506	41	1447
Coles, Henri H., Philadelphia, Pa. Grinding-mill	375,534	Dec. 27	1934	506	41	1447
Coles, Henri H., Philadelphia, Pa. Fastening for runners of grinding-mills	375,535	Dec. 27	1935	506	41	1447
Colladay, Joseph O. (See Titus, Charles W., assignor.)						
Collamore, Robert G. S., Boston, Mass. Locomotive-tender	371,251	Oct. 11	734	{ 187 188 }	{ 41 }	152
Colle, Edouard. (See Marey and Colle.)						
Colles, Edward G. T., Chicago, Ill. Feed-water heater	357,268	Feb. 8	770	200	38	572
Colles, Edward G. T., Chicago, Ill. Feed-water heater and purifier	360,207	Mar. 29	2709	{ 684 685 }	{ 38 }	1437
Collet, Victor C., Hohen Solms, La. Bridle	359,060	Mar. 8	938	239	38	1082
Collett, Joseph, Brooklyn, assignor to Mayor, Lane & Co. Brass Works, New York, N. Y. Water-closet tank	365,049	June 21	1924	323	39	1334
Colley, Walter W., Camberwell, London, county of Surrey, England. Machine for numbering papers	362,145	May 3	126	38	39	498
Colley, Walter W., Camberwell, London, England. Machine for cutting and winding paper	365,796	July 5	49	14	40	11
Colley, Walter W., Camberwell, London, England. Machinery for unreeling, perforating, and reeling paper into rolls, &c.	368,705	Aug. 23	1973	{ 523 524 }	{ 40 }	853
Colliau, Victor, Detroit, Mich. Steam-generator	356,988	Feb. 1	342	90	38	486
Collicutt, George M., Elgin, New Brunswick, Canada. Bicycle	370,450	Sept. 27	1647	440	40	1367
Collier, Jacob W., Paris, Ill. Machine for making wire fences	367,092	July 26	1836	495	40	372
Collier, James M. (See Downey and Collier.)						
Collier, Phoebe. (See Collier, Thomas, assignor.)						
Collier, Thomas, assignor to P. Collier, Racine, Wis. Combined clothes mangle and wringer	363,806	May 31	2471	642	39	970
Collier, William W., <i>et al.</i> (See Hutchinson, Edwin B., assignor.)						
Collin, Simon C., Braddock, Pa. Converter	372,302	Nov. 1	22	7	41	475
Collings, Edward Z., <i>et al.</i> (See Belisle, Robert S., assignor.)						
Collins, Asa C., Driftwood, Pa. Potato-digger	369,501	Sept. 6	251	71	40	1082
Collins, C. L. (See Hazelton, George H., assignor.)						
Collins, Charles, Doctor Town, Ga. Shaking apparatus	366,400	July 12	949	259	40	189
Collins, Charles J., <i>et al.</i> (See Goss, Edward, assignor.)						
Collins, Charles R., assignor to himself, D. A. Collins, W. and W. W. Taylor, Lafayette, Ind. Carburetor	371,034	Oct. 4	436	109	41	86
Collins, Darwin A., <i>et al.</i> (See Collins, Charles R., assignor.)						
Collins, Elihu P., Lawrence, Mass. Warp-beam	356,823	Feb. 1	109	30	38	443
Collins, Everell S., Nebraska, Pa. Circular sawing machine	355,589	Jan. 4	381	102	38	77
Collins, Francis M., Troy, assignor of one-half to Rathbone, Sard & Co., Albany, N. Y. Stove cover and lifter	368,072	Aug. 9	1069	285	40	662
Collins, George, Detroit, Mich. Tea-kettle nozzle	359,061	Mar. 8	938	239	38	1082
Collins, George A. and J. K., and M. C. Burnside, Sleepy Eye, Minn. Excavating snow-shovel	370,377	Sept. 27	1541	{ 412 413 }	{ 40 }	1348
Collins, James E., Granada, Colo. Stirrup	368,193	Aug. 16	1237	331	40	702
Collins, John, Oakland, assignor of one-half to S. V. Mooney, San Francisco, Cal. Splicing cables	369,435	Sept. 6	170	49, 50	40	1064
Collins, John, assignor of one-half to S. V. Mooney, San Francisco, Cal. Splicing cables	371,671	Oct. 18	1321	342	41	277
Collins, John C., Chillicothe, Ohio. Filling apparatus	361,930	Apr. 26	2207	573	39	435
Collins, John K. (See Collins and Burnside.)						
Collins, John K. (See Kitzmiller and Culley, assignors.)						
Collins, John S., <i>et al.</i> (See Collins, Joshua J., assignor.)						
Collins, John T., assignor of one-fourth to H. F. Palmer, Norwich, Conn. Street-sweeping machine	356,029	Jan. 11	1045	274	38	211

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Collins, John W., assignor of one-half to J. F. Atzell, Washington, D. C. Air-purifier and evaporator.....	370,529	Sept. 27	1768	471	40	1388
Collins, Joseph S., Philadelphia, Pa. Button-hole-cording attachment for sewing-machines.....	356,621	Jan. 25	1903	{ 499 500 }	{ 38 }	386
Collins, Joshua J., assignor to himself, J. S. Collins, and W. D. S. Rodgers, Knox, Ind. Clothes-wringer.....	362,359	May 3	400	111	39	552
Collins, M. Grier, assignor of one-half to T. H. Sweeting, G. M. Roth, and T. L. Hicks, Philadelphia, Pa. Vaginal expanding and cleansing instrument.....	365,969	July 5	302	80	40	57
Collins, Nathaniel T., Hartford, Kans. Sulky-harrow.....	364,483	June 7	393	{ 106 107 }	{ 39 }	1162
Collins, Samuel P., Allegheny, Pa. Tobacco-scrap breaker.....	355,590	Jan. 4	382	103	38	77
Collins, Stephen, St. John, New Brunswick, Canada. Link-bending machine.....	366,304	July 12	760	205	40	151
Collins, Thomas C., Wesson, Miss. Cane-stripper.....	374,777	Dec. 13	866	227	41	1226
Collins, Thomas J., assignor of one-half to A. B. Burns, Washington, D. C. Stand-pipe.....	362,610	May 10	767	211	39	623
Collins, Ulysses L., Sparta, Ill. Folding seat.....	362,720	May 10	927	253	39	654
Collom, Martin H., Idaho Springs, Colo. Bed-spring.....	374,658	Dec. 13	698	184	41	1192
Collot, Christian F. (See Fontaine, Louis A., assignor.)						
Collyer, Charles W. and W. C., Lynn, Mass. Combined wire-cutter and saw.....	358,544	Mar. 1	194	45	38	938
Collyer, William C. (See Collyer, Charles W. and W. C.)						
Colman, Frank B., New York, N. Y. Electrically-actuated vibrator.....	367,270	July 26	2091	565	40	419
Colman, James M., New Castle, Wash. Ter. Neck-yoke swivel.....	368,381	Aug. 16	1503	401	40	755
Colomb, George A., Convent, La. Artificial tooth-crown.....	360,206	Mar. 29	2708	684	38	1437
Colony, Charles W., Sandy Creek, N. Y. Lantern.....	361,988	Apr. 26	2302	599	39	450
Colston, Frederick M., Baltimore, Md. Dust-receiver for pipes of floor-registers.....	358,733	Mar. 1	462	113	38	990
Colton, Alonzo, Oaktown, Ind. Gate.....	366,570	July 12	1119	300	40	223
Colton, Edward G., Hendon, county of Middlesex, England. Coin-operated apparatus for delivering a spray of perfume.....	374,347	Dec. 6	253	67, 68	41	1094
Colton, William. (See Griffith, Richard W., assignor.)						
Colt's Patent Fire Arms Manufacturing Company. (See Ehbets, Carl J., assignor.)						
Colt's Patent Fire Arms Manufacturing Company. (See Franklin, William B., assignor.)						
Colt's Patent Fire Arms Manufacturing Company. (See Knous, Franklin F., assignor.)						
Colt's Patent Fire Arms Manufacturing Company. (See Thomson, John, assignor.)						
Colt's Patent Fire Arms Manufacturing Company. (See Weatherhead, Frank W., assignor.)						
Columbia Electric Light and Motor Company. (See Reynolds, Willis H., assignor.)						
Columbus Watch Company. (See Gruen, Dietrich, assignor.)						
Columbus Watch Company. (See Wheeler and Barbier, assignors.)						
Colvin, Benoni, Freeport, Ill., assignor, by mesne assignments, to Luce Spring Hinge Company, Port Washington, Wis. Spring-hinge.....	361,989	Apr. 26	2304	{ 599 600 }	{ 39 }	450
Colvin, C. Henry. (See Leland, Edwin J., assignor.)						
Colvin, Michael R., Worcester, Mass. Casing for pipes and tubes.....	369,773	Sept. 13	629	170	40	1162
Colvin, Oscar, Buchanan, Mich. Table-leaf support.....	359,432	Mar. 15	1456	372	38	1186
Combination Folding Bed Company. (See Levy, Isaac M., assignor.)						
Combined Electric and Trip Bell Cord Company. (See Glasgow and Stevens, assignors.)						
Combs, Edgar S. (See Paine and Combs.)						
Combs, George W., Leavenworth, Kans. Feeder for mill-rolls.....	373,724	Nov. 22	2184	584	41	907
Combs, John H. (See Sibley and Combs.)						
Combs, S. Edson, Kalamazoo, Mich. Hay and stock rack.....	368,653	Aug. 23	1889	504	40	837
Comly, David B., Adena, Ohio. Stirrup.....	356,748	Feb. 1	12	4	38	425
Comerford, James. (See Comerford, William and J.)						
Comerford, William and J., Rathdrum, county of Wicklow, Ireland. Dust-collector.....	370,686	Sept. 27	2002	{ 532 533 }	{ 40 }	1432
Comes, Simon, New York, N. Y. Shirt.....	360,661	Apr. 5	383	97	39	72
Comfort, Francis V., Stillwater, Minn. Movable shelving.....	375,128	Dec. 20	1402	{ 364 365 }	{ 41 }	1333
Comins, Charles S., Boston, Mass. Step-ladder.....	372,967	Nov. 8	1032	276	41	669
Commander, Herman, Tomah, Wis. Sled.....	355,300	Jan. 4	13	4	38	5
Commercial Overseaming Sewing Machine and Manufacturing Company. (See Kohler, Charles, assignor.)						
Commercial Patent Development Company. (See Richardson, John D., assignor.)						
Commercial Telegram Company. (See Field, Stephen D., assignor.)						
Commercial Telegram Company. (See Healy, Clarence L., assignor.)						
Commercial Telegram Company. (See Mahnken, Henry, assignor.)						
Commercial Telegram Company. (See Mahnken and Healy, assignors.)						
Common Sense Flexible Insole Company. (See King, Charles W., assignor.)						
Compagnie Anonyme des Forges de Chatillon et Commentry. (See Evrard, Alfred, assignor.)						
Compressed Paper Box Company. (See Godfrey, Jonathan, assignor.)						
Compressed Paper Box Company. (See House, Henry, A., assignor.)						
Compton, Edwin, Worthing, county of Sussex, England. Curtain-ring.....	364,752	June 14	772	205	39	1241
Compton, Henry T., et al. (See Anderson, Henry, assignor.)						
Compton, William A., Liberty Corner, N. J. Wood-embossing machine.....	367,366	Aug. 2	17	5	40	454
Comstock, Edwin M. and E. S., Cascade Valley, N. Y. Bow-rosining attachment for violins.....	373,645	Nov. 22	2078	555	41	885
Comstock, Ernest S. (See Comstock, Edwin M. and E. S.)						
Comstock, Sylvester B., Providence, R. I. Adjustable sliding screen.....	364,901	June 14	1008	264	39	1284
Comstock, Wallace B., Allendale Center, Mich. Cutter-bar.....	367,190	July 26	1967	532	40	396
Comstock, William B., and A. P. Buxton, assignors to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Call-bell.....	365,241	June 21	1499	394	39	1385
Conant, Fred H., assignor to Heywood Brothers & Co., Gardner, Mass. Rattan article.....	373,583	Nov. 22	1985	527	41	866
Conant, Hezekiah, Pawtucket, R. I. Isochronal clock.....	368,814	Aug. 23	2126	{ 563 564 }	{ 40 }	881
Conant, Hezekiah, Pawtucket, R. I. Astronomical clock.....	371,306	Oct. 11	809	{ 206 207 }	{ 41 }	166
Conant, Homer W. (See Mikesch and Conant.)						
Conant, Ossian A. C., Terre Haute, Ind. Flour-packer.....	367,599	Aug. 2	355	101	40	519
Conant, Richard A. (See Stickney, Henry R., 2d, assignor.)						
Conant, Thomas P., Brooklyn, N. Y., assignor to Electrical Accumulator Company, of New York. Automatic electric-circuit controller.....	360,375	Mar. 29	2952	750	38	1481
Conant, Thomas P., Brooklyn, N. Y., assignor to Electrical Accumulator Company, of New York. Application of accumulators to electric lighting.....	373,883	Nov. 29	2414	649	41	958
Conboy, Daniel, Toronto, Ontario, Canada. Carriage-curtain fastener.....	364,805	June 14	868	227	39	1257
Condit, Ezekiel C., Kansas City, Mo. Hot-air furnace.....	355,301	Jan. 4	14	4	38	5
Condit, Ezekiel C., Kansas City, Mo. Lining for furnaces.....	358,545	Mar. 1	195	46	38	939
Condit, Ezekiel C., Kansas City, Mo. Dry closet.....	358,546	Mar. 1	196	46	38	939

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Condit, Ezekiel C., Kansas City, Mo. Heating-furnace	369,774	Sept. 13	630	170	40	1162
Condit, Ezekiel C., Kansas City, Mo. Heating-furnace	372,968	Nov. 8	1033	{ 276 277 }	{ 41 40 }	669 882
Condry, John W., Buckeystown, Md. Automatic gate	368,815	Aug. 23	2129	564	40	882
Cone, Eugene F., assignor to Smyth Manufacturing Company, Hartford, Conn. Signature-gage for book-sewing machines	358,594	Mar. 1	273	63	38	954
Cone, Henry D., Stockbridge, Mass. Railway-rail joint	373,052	Nov. 15	1166	312	41	703
Congdon, Albert F., assignor of two-thirds to I. Schlieter and G. E. Vickers, Philadelphia, Pa. Electric generator and motor	374,778	Dec. 13	867	228	41	1226
Congdon Brake Shoe Company. (See Sargent, George M., assignor.)						
Conger, Charles A., Seymour, Iowa. Combined listing-plow and seeder	364,484	June 7	394	107	39	1162
Coninck, Edmond L. (See Rolland and Coninck.)						
Conklin, Almon L., Spring Valley, Minn. Rivet-receptacle	357,177	Feb. 8	647	168	38	550
Conklin, Calvin W. (See Merrell and Conklin.)						
Conklin, Edmund. (See Brower and Conklin.)						
Conklin, Elgin L., Corning, N. Y. Feeder for grinding-mills	364,485	June 7	395	{ 107 108 }	{ 39 38 }	1162 812
Conklin, Hiram H., Eureka, Nev. Bayonet	358,105	Feb. 22	1976	521	38	812
Conklin, Lester, Wallingford, Conn. Hub for vehicle-wheels	362,493	May 10	597	169	39	594
Conkling, Gurdon, Glens Falls, N. Y. Jig for separating ores	371,427	Oct. 11	982	256	41	200
Conkling, Henry W., and W. M. Fisher, Iola, Kans. Steam washing-machine	362,146	May 3	129	39	39	498
Conlan, Bernard, Newark, N. J. Clasp for books, &c.	355,974	Jan. 11	978	256	38	198
Conn, Charles G., Elkhart, Ind. Drum-tightener	367,701	Aug. 2	518	142	40	548
Conn, Horace N., Woburn, Mass. Combined lamp and reflector	361,135	Apr. 12	1071	271	39	204
Conn, John, Valparaiso, Ind. Nursery and sewing table	361,267	Apr. 19	1269	324	39	253
Conn, John H., Englewood, Ill. Car-coupling	369,775	Sept. 13	632	170	40	1163
Connel, James M., Newark, assignor of one-half to M. Rightmyer, Springfield, Ohio. Combined door spring and check	368,194	Aug. 16	1238	331	40	702
Connel, James M., Newark, assignor of one-half to J. S. Bogle, Springfield, Ohio. Sharpening-machine	373,517	Nov. 22	1896	{ 502 503 }	{ 41 40 }	850 162
Connell, Francis H. (See Connell, Lewis W., assignor.)						
Connell, Lewis W., assignor to himself and F. H. Connell, Joliet, Ill. Machine for manufacturing wire-fence stays	355,863	Jan. 11	797	{ 209 210 }	{ 38 38 }	162 882
Connelly, Anna, Philadelphia, Pa. Fire-escape	368,816	Aug. 23	2130	564	40	882
Connelly, James T., Huntington, W. Va. Device for tapping stay-bolt holes	373,815	Nov. 29	2319	621	41	940
Connelly, William A., Boston, Mass. Electric heat-regulating apparatus	370,007	Sept. 13	1000	263	40	1230
Conner, Aaron S. (See Conner, William R. and A. S.)						
Conner, D. Ellis, Morehead, Ky. Device for transmitting motion	358,431	Mar. 1	11	3, 4	38	905
Conner, James M., New York, N. Y. Type-mold	356,749	Feb. 1	14	5	38	425
Conner, Joseph, assignor to J. Matthews, New York, N. Y. Pressure-indicator for bottling-machines	355,921	Jan. 11	889	232	38	180
Conner, Mathias M. (See Bodge, John M., assignor.)						
Conner, Robert S. (See Patton and Conner.)						
Conner, Theodore M., assignor of part to T. M. Conner and J. B. Dougan, Richmond, Ind. Machine for forming netted wire fabrics	357,067	Feb. 1	458	{ 121 122 }	{ 38 38 }	507 1399
Conner, Thompson M., et al. (See Conner, Theodore M., assignor.)						
Conner, William P., Bloomsburg, Pa. School seat and desk	365,297	June 21	1588	{ 413 414 }	{ 39 38 }	1399 1024
Conner, William R., Milton, Iowa, and A. S. Conner, Hitt, Mo. Keyed musical tube	358,841	Mar. 8	622	154	38	1024
Connors, Timothy, Portland, Conn., assignor to R. E. Ingersoll, New York, N. Y. Wire cutting and crimping apparatus	375,312	Dec. 20	1641	430	41	1381
Connors, Timothy, Portland, Conn., assignor to R. E. Ingersoll, New York, N. Y. Apparatus for casting lead seals	375,313	Dec. 20	1643	{ 430 431 }	{ 41 41 }	1381 1460
Connerton, Michael H., Philadelphia, Pa. Fan attachment for baby-carriages	365,462	June 28	1841	478	39	1460
Connett, Henry. (See McElroy and Connett.)						
Connett, Matthew F., Peoria, Ill. Churn-motor	363,807	May 31	2473	642	39	970
Connett, Matthew F., Jr., Peoria, Ill. Hand fence-machine	365,503	June 28	1893	493	39	1470
Connett, Matthew F., Jr., and A. H. White, assignors of part to C. E. Rowcliffe and W. D. Clark, Peoria, Ill. Cuff-holder	355,386	Jan. 4	125	34	38	26
Connolly, Patrick, Scranton, Pa. Hoisting-machine	367,962	Aug. 9	918	247	40	634
Connon, John R., Elora, Ontario, Canada. Photographic instrument	369,165	Aug. 30	2618	695	40	987
Connor, John H., and T. F. Blessington, Haverhill, Mass. Rotary-shuttle-operating mechanism for sewing-machines	366,929	July 19	1608	431	40	321
Connor, John H., T. F. and S. G. Blessington, Haverhill, Mass. Heel-burnishing machine	366,930	July 19	1609	431	40	321
Connor, Reason. (See Gaver, Samuel P., assignor.)						
Conover, David, Mount Vernon, Ind. Draft-equalizer	357,178	Feb. 8	649	168	38	550
Conover, George S., Georgetown, county of Halton, and W. W. Conover, Toronto Township, county of Peel, Ontario, Canada. Watch-key	360,563	Apr. 5	252	62	39	49
Conover, Jacob H., and D. S. Brink, Springborough, Pa. Wagon-stake	356,927	Feb. 1	254	70	38	468
Conover, Joel, Cobleskill, N. Y., and F. Conrick, Dubuque, Iowa. Fire-escape	375,440	Dec. 27	1813	474	41	1423
Conover, William W. (See Conover, George S. and W. W.)						
Conquest, William, London, county of Middlesex, England, assignor to R. Hoe & Co., New York, N. Y. Folding-roller for paper-folding machines	367,352	July 26	2218	595	40	442
Conrad, Charles E., assignor of one-half to S. C. Dilley, Hastings, Nebr. Car-coupling	364,902	June 14	1009	{ 264 265 }	{ 39 41 }	1284 1255
Conrad, John R., Long Pine, Nebr. Oven-door	374,889	Dec. 13	1027	269	41	1255
Conrick, Frank. (See Conover and Conrick.)						
Consolidated Button Hole Finishing Machine Company. (See Thomson and Phelps, assignors.)						
Constant, John S., Kirkpatrick, Ind. Fanning-mill	358,543	Mar. 1	193	45	38	938
Continental Gas Engine Company. (See Gaume, Charles J. B., assignor.)						
Continental Oxygen Company. (See Brin, Arthur, assignor.)						
Continental Oxygen Company. (See Brin, Léon Q. and A., assignors.)						
Convers, Albert E., Taunton, Mass. Machine for separating iron tacks or nails from particles of tin or zinc	358,961	Mar. 8	805	203	38	1057
Convers, Albert E., Taunton, Mass. Machine for grinding the scores in tack-dies	359,533	Mar. 15	1611	{ 412 413 }	{ 38 41 }	1215 1466
Convers, George G., Bethlehem, Pa. Treating sal-ammoniac or flux skimmings	375,606	Dec. 27	2047	530	41	1466
Converse, Albert E., Taunton, Mass. Tool for dressing emery-wheels	362,360	May 3	401	111	39	552
Converse, Edmund C. (See Norton and Briggs, assignors.)						
Converse, Edmund C. (See Richards, William H., assignor.)						
Converse, Edmund C. (See Riley, George N., assignor.)						
Converse, Edmund C., Pittsburg, Pa. Joint for gas-mains	362,205	May 3	203	60	39	513
Converse, Frank B., New York, N. Y. Tuning-peg retainer	360,461	July 12	950	259	40	189

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Converse, John H., <i>et al.</i> (See Vauclain, Samuel M., assignor.)						
Converse, Lyman P., Chicago, Ill. Heating stove or furnace	358,432	Mar. 1	12	4	38	905
Convert, Adolf, assignor to American Carbonate Company, New York, N. Y. Fluid-pressure regulator	366,995	July 19	1695	456	40	336
Convert, Adolf, assignor to American Carbonate Company, New York, N. Y. Stop-cock	368,073	Aug. 9	1070	286	40	662
Convis, Charles E. (See Woodruff, Theodore T., assignor.)						
Conway, Addie G., Kansas City, Mo. Toaster or broiler for gasoline-stoves	362,939	May 17	1242	330	39	718
Conway, Jesse, <i>et al.</i> (See Conway, John N., assignor.)						
Conway, John, London, Ohio. Bread-sponge-raising device	369,776	Sept. 13	632	171	40	1163
Conway, John N., assignor of two-thirds to J. Conway and G. R. Ott, Baltimore, Md. Patent for car-wheels	363,598	May 24	2167	562	39	906
Cook, Alonzo, St. Paul, Minn. Bilge-water pump	373,725	Nov. 22	2186	584	41	908
Cook, Americus V., Dexter, Mo. Churn	363,450	May 24	1945	509	39	862
Cook, B. W. (See Townsend, Edmund, assignor.)						
Cook & Brother, E. C. (See Rowland, Samuel, assignor.)						
Cook, Charles C. (See Butler, Howard H., assignor.)						
Cook, Charles E., South Byron, N. Y. Fruit-gatherer	356,451	Jan. 25	1657	434	38	339
Cook, Christian W., West Jordan, Utah Ter. Fan attachment for sewing-machines	362,573	May 10	709	197	39	613
Cook, Christian W., West Jordan, Utah Ter. Sash-holder	373,726	Nov. 22	2187	585	41	908
Cook, Cornelius, Fremont, Nebr. Grader and ditcher	357,522	Feb. 8	1126	295	38	640
Cook, Daniel, Philadelphia, Pa. Window-screen	361,136	Apr. 12	1072	271	39	204
Cook, Emery D., Akron, Mich. Harrow-tooth	355,302	Jan. 4	15	5	38	5
Cook, Frederic, New Orleans, La. Bagasse-furnace	362,362	May 3	402	{ 111 112 }	{ 39 39 }	552
Cook, Frederic, New Orleans, La. Bagasse-furnace	372,969	Nov. 8	1035	277	41	939
Cook, George W., assignor of one-half to C. B. Cole, Detroit, Mich. Underground conduit for electrical conductors	374,348	Dec. 6	256	68	41	1095
Cook, Henry, Philadelphia, Pa. Amalgamator	362,363	May 3	403	112	39	553
Cook, Henry S. (See Rice and Cook.)						
Cook, J. H., Jr. (See Mumbrue, Orville W., assignor.)						
Cook, Jacob H. (See Sergeant, Wells E., assignor.)						
Cook, James L., Springfield, Ill. Thill-coupling	371,428	Oct. 11	983	256	41	200
Cook, John B. (See Caldwell, John A., assignor.)						
Cook, John R., <i>et al.</i> (See Ward, William W., assignor.)						
Cook, Joseph, Birmingham, county of Warwick, England. Device for closing the lids of boxes	374,584	Dec. 13	602	157	41	1172
Cook, Leroy. (See Lenox and Cook.)						
Cook, Marcus E., Wallingford, Conn. Draft-harness	355,591	Jan. 4	384	103	38	77
Cook, Marcus E., Wallingford, Conn., assignor to American Road Machine Company, Kennett Square, Pa. Road-scraper	359,848	Mar. 22	2127	536	38	1324
Cook, Marcus E., Wallingford, Conn., assignor to American Road Machine Company, Kennett Square, Pa. Road-scraper	359,849	Mar. 22	2130	{ 536 537 }	{ 38 38 }	1324
Cook, Marcus E., Wallingford, Conn., assignor to American Road Machine Company, Kennett Square, Pa. Road-scraper	359,850	Mar. 22	2132	537	38	1325
Cook, Oliver, Rowayton, Conn. Oyster-dredge	373,646	Nov. 22	2079	555	41	885
Cook, Richard. (See Moss and Cook.)						
Cook, Samuel G. B. (See Bixby, Arthur, assignor.)						
Cook, Stephen S., assignor of one-third to G. W. Vogler, Philadelphia, Pa. Steam-valve	361,990	Apr. 26	2305	600	39	450
Cook, Willard L., assignor of three-fourths to C. F. Newton, W. S. Wing, C. N. Pratt, and H. A. Worley, Omaha, Nebr. Refrigerator-car	367,600	Aug. 2	356	101	40	519
Cook, William, Redditch, county of Worcester, England. Velocipede-saddle	364,903	June 14	1010	265	39	1234
Cook, William, New York, N. Y. Saw-filing attachment	372,456	Nov. 1	254	70	41	518
Cook, Winfield S. (See Westbrook and Cook.)						
Cooke, Charles F., Buckingham Works, county of York, England. Electric-arc lamp	360,662	Apr. 5	384	97, 98	39	72
Cooke, Charles S. (See Cooke, William A., Jr., and C. S.)						
Cooke, David B., assignor of one-half to F. Stiles, Binghamton, N. Y. Press	356,681	Jan. 25	1975	519	38	400
Cooke, Edward D., Chicago, Ill. Button	356,928	Feb. 1	255	70	38	468
Cooke, Edwin M., Hot Springs, Ark. Rail-joint	358,840	Mar. 8	621	153	38	1024
Cooke, George K., assignor to D. S. Moore, New York, N. Y. Gas-burner	361,674	Apr. 26	1846	{ 478 479 }	{ 39 39 }	370
Cooke, William A., Gaithersburg, Md. Artificial bait for fishing	360,339	Mar. 29	2894	737	38	1473
Cooke, William A., Jr., and C. S., Brooklyn, N. Y. File for letters and papers, &c	366,817	July 19	1467	{ 391 392 }	{ 40 40 }	293
Cooke, William M. (See Squires, John S., assignor.)						
Cooke, William O., New York, N. Y. Automatic car-brake	356,622	Jan. 25	1905	500	38	386
Cooke, William O., Providence, R. I. Portable frog or car-replacer for railways	364,091	May 31	2872	745	39	1046
Cooke, William O., Providence, R. I. Car-replacer for street-railways	371,177	Oct. 11	632	162	41	132
Cookson, William B. (See Hague and Cookson.)						
Cool, John P., Campbell, Mich. Fence	371,822	Oct. 18	1546	399	41	322
Coolehan, John B., Annapolis, Md. Bottle-washer	372,205	Oct. 25	2129	547	41	439
Cooley, Alonzo B., Moscow, N. Y. Car-coupling	355,864	Jan. 11	800	210	38	163
Cooley, Gilbert T., Syracuse, N. Y. Carriage-top	360,208	Mar. 29	2711	685	38	1438
Cooley, Orville, assignor to Johnston Harvester Company, Batavia, N. Y. Tension device for grain-binders	357,581	Feb. 15	1226	322	38	669
Cooley, Ralph B., Brooklyn, N. Y. Combined rolling blackboard and copy-holder	371,429	Oct. 11	984	256	41	200
Cooley, Samuel, Flemington, N. J. Car-coupling	372,895	Nov. 8	928	250	41	650
Cooley, Willard A., Sweden, N. Y. Gavel-deliverer for harvesters	372,457	Nov. 1	255	70, 71	41	519
Coolidge, George P., Antwerp, N. Y. Quarter-boot for horses	367,271	July 26	2093	565	40	419
Coombs, Edgar L., assignor to Gladding & Coombs Brothers, Providence, R. I. Sleeve-button	362,426	May 3	496	140	39	572
Coombs, John C., <i>et al.</i> (See Thayer, James M., assignor.)						
Coombs, Moses, Jr. (See Nichols and Coombs.)						
Coon, Albert A., Hutsonville, Ill. Wrench	366,648	July 19	1238	331	40	252
Cooney, John, Toronto, Ontario, Canada. Sash-balance	364,486	June 7	397	108	39	1163
Cooney, Joseph T., San Francisco, Cal. Grip-releasing device for cable roads	365,168	June 21	1406	371	39	1365
Cooney, Luke, Jr., Kalamazoo, Mich. Two-wheeled vehicle	375,129	Dec. 20	1405	365	41	1333
Cooney, Luke, Jr., Kalamazoo, Mich. Two-wheeled vehicle	375,130	Dec. 20	1405	365	41	1333
Coonse, George W., Indianapolis, Ind. Adjustable boring-machine	372,120	Oct. 25	2004	514	41	415
Coop, William L., Providence, R. I. Lathe	362,721	May 10	928	{ 253 254 }	{ 39 39 }	654
Coop, William L., Providence, R. I. Exercising-machine	363,599	May 24	2168	562	39	906
Cooper, Albert. (See Metzger and Cooper.)						
Cooper, Alfred J., Duryea, Pa. Vehicle-spring	375,411	Dec. 27	1771	464	41	1415
Cooper, Charles A., <i>et al.</i> (See Howell and Pooler, assignors.)						
Cooper, Charles B., New York, N. Y. Sheet-metal roofing-plate	372,787	Nov. 8	757	204	41	620

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Cooper, David A., and W. H. Lewis, Brooklyn, assignors to E. & H. T. Anthony & Company, New York, N. Y. Projecting camera	371,252	Oct. 11	735	188	41	152
Cooper, David G., Dover, N. H. Oven-thermometer	360,950	Apr. 12	794	205	39	153
Cooper, E. M. (See Doggett, Horace E., assignor.)						
Cooper, Ellison M., and H. E. Doggett, Philadelphia, Pa. Box-opener	368,516	Aug. 16	1708	456	40	793
Cooper, Elmer M., Cadiz, Ind. Machine for making wire fences	355,812	Jan. 11	716	187	38	148
Cooper, Ezekiel L., Clarence, Mo. Gate	367,367	Aug. 2	19	5	40	455
Cooper, George L. (See Hornberger and Cooper.)						
Cooper, Henry C. (See Charron, Theophile, assignor.)						
Cooper, Henry C. (See Sharrow, Theophile, assignor.)						
Cooper, Isaac, Fort Worth, Tex. Stomach-bitters	365,242	June 21	1500		39	1385
Cooper, James A., Lima, Ohio. Metallic fence	372,254	Oct. 25	2202	564 565	41	454
Cooper, John H., Evington, and W. J. Ford, Humberstone, county of Leicester, England. Circular-knitting machine	364,806	June 14	868	228 229	39	1258
Cooper, John W., Brinkley, Ark. Portable fire place and flue	363,210	May 17	1617	425	39	791
Cooper, John W., Boston, Mass. Pianissimo device for pianos	367,272	July 26	2094	565 566	40	420
Cooper, John W., assignor to C. W. Motes, Atlanta, Ga. Photographer's chair	360,855	Apr. 12	652	172	39	129
Cooper, Milton L., et al. (See Slappey, William A., assignor.)						
Cooper, Sherman, Westfield, N. J. Suspensory bandage	366,931	July 19	1611	431	40	321
Cooper, Squire. (See Watts and Cooper.)						
Cooper, Thomas, Great Ryburgh, county of Norfolk, England. Automatic exhibiting apparatus	368,279	Aug. 16	1379	363 364	40	729
Cooper, Thomas C., Winona, Minn. Reflector for head-lights, &c.	370,687	Sept. 27	2004	533	40	1433
Cooper, Thomas O., Wilmington, Del. Cable-grip for railways	372,121	Oct. 25	2005	514 515	41	415
Cooper, William A., Conshohocken, Pa. Rubber-band holder	364,904	June 14	1011	265	39	1284
Cooper, William S., Philadelphia, Pa. Valve and valve-operating mechanism for water-closet reservoirs	371,430	Oct. 11	986	257	41	200
Cooper, William S., Philadelphia, Pa. Valve for water-closets	371,431	Oct. 11	988	257	41	201
Cooper, William S., Philadelphia, Pa. Valve and reservoir for water-closets	373,015	Nov. 8	1109	295	41	682
Co-operative Stove Works. (See Farrell and Casey, assignors.)						
Cope, Henry P., assignor of one-half to J. H. Bissell, Detroit, Mich. Latch for stove-doors	365,730	June 28	2245	584	39	1537
Cope, Mason L., assignor of three-fourths to H. H. Dawson, Denton, Tex. Hay-press	364,905	June 14	1012	265	39	1285
Copeland, Charles F., et al., trustees. (See Fiske, Henry P., assignor.)						
Copeland, David W., Syracuse, N. Y. Apparatus for cleaning car-seats	374,940	Dec. 20	1129	295 296	41	1283
Copeland, Edwin T., Brooklyn, N. Y. Automatic fire-extinguishing apparatus	358,336	Feb. 22	2295	606	38	873
Copeland, Edwin T., Brooklyn, N. Y. Automatic sprinkler-valve	369,840	Sept. 13	733	196	40	1182
Copeland, Eliza A., Garden Valley, Tex. Bale-tie	364,218	June 7	27	8	39	1093
Copeland, George W., Malden, and J. E. Crisp, Boston, Mass.; said Crisp assignor to said Copeland. Machine for making tack-strips or nail-strips	365,731	June 28	2247	585 586 587	39	1537
Copeland, George W., Malden, J. E. Crisp, Somerville, and E. F. Grandy, Boston, Mass.; assignors to Copeland Improved Lasting and Tacking Company, Portland, Me. Lasting-machine	365,504	June 28	1894	493 494	39	1470
Copeland, George W., Malden, J. E. Crisp, Somerville, and E. F. Grandy, Boston, Mass.; assignors to Copeland Improved Lasting and Tacking Company, Portland, Me. Lasting-machine for boots or shoes	365,505	June 28	1899	494 495 496	39	1471
Copeland, Herschel P., East Orange, N. J., assignor to Western Electric Company, Chicago, Ill. Telegraph-pole protector	373,925	Nov. 29	2470	663	41	969
Copeland Improved Lasting and Tacking Company. (See Copeland, Crisp, and Grandy, assignors.)						
Copeland Improved Lasting and Tacking Company. (See Woodward, Erastus, assignor.)						
Copeland, Ira, Brockton, Mass. Cement-coated nail	362,940	May 17	1242	330	39	718
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Portland, Me. Velocipede	364,632	June 14	600	161	39	1209
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Portland, Me. Velocipede	367,368	Aug. 2	20	5	40	455
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Portland, Me. Velocipede	371,432	Oct. 11	989	257	41	201
Copeland, James S., Hartford, Conn., assignor, by mesne assignments, to Pope Manufacturing Company, Portland, Maine. Velocipede	358,960	Mar. 8	803	203	38	1057
Copeland, Lucius D., Camden, N. J. Steam-boiler	360,759	Apr. 5	512	132	39	96
Copeland, Lucius D., Camden, N. J. Steam-tricycle	360,760	Apr. 5	513	132 133	39	96
Copeland, Lucius D., Camden, N. J. Steam-engine	360,761	Apr. 5	514	133	39	96
Copeland, Salem, Worcester, Mass. Combined gage and dividers	363,600	May 24	2173	563	39	907
Copeland, Samuel R., Huron, Dak. Ter. Car-coupling	365,366	June 28	1689	440	39	1432
Copeland, William M. (See Trinkle, John W., assignor.)						
Copley, Edwin B., Volinia, Mich. Grain-elevator for harvesters	369,396	Sept. 6	119	35	40	1055
Copp, William J., Hamilton, Ontario, Canada. Fire-place grate	362,063	May 3	17	5	39	476
Coppedge, Walter R., Floyd Court-House, Va. Railway-switch	372,122	Oct. 25	2007	515	41	416
Coppin, Daniel G., Newport, Ky. Collapsible core-barrel	369,317	Sept. 6	16	4	40	1038
Coppinger, Thomas. (See Layman, Dempsey, and Coppinger.)						
Coquard, Leon H. F., and F. A. McGinnis, Detroit, Mich. Pool-ball cabinet	371,821	Oct. 18	1544	399	41	322
Corbett, Frank, New York, N. Y. Anti-friction hand ironing-machine	356,240	Jan. 18	1350	356	38	274
Corbett, Frank, New York, N. Y. Hand ironing-machine	359,774	Mar. 22	2007	507	38	1302
Corbin Cabinet Lock Company. (See Cowles, George B., assignor.)						
Corbin, P. & F. (See Cowles, George B., assignor.)						
Corbin, P. & F. (See Merriman, George E., assignor.)						
Corbin, P. & F. (See Mix, Frank W., assignor.)						
Corbin, P. & F. (See Summers, Lucius P., assignor.)						
Corbus, John. (See Ramsey, John W., assignor.)						
Corcoran, John. (See Devitt and Corcoran.)						
Corcoran, Patrick W., Seneca, Ill. Pole-strap attachment for double harness	364,633	June 14	601	161	39	1209
Corcoran, Patrick W., Seneca, Ill. Hame-clip	367,787	Aug. 9	667	180	40	585
Corcoran, Patrick W., Seneca, Ill. Neck-yoke	373,816	Nov. 29	2321	622	41	940
Cordray, David P. (See Ott and Cordray.)						
Cordray, Henry A., assignor of one-half to W. H. Murphy, Brenham, Tex. Toy race-course	361,812	Apr. 26	2036	529	39	402
Cordrey, Charles K., Bellefontaine, Ohio. Gate for swinging bridges	373,130	Nov. 15	1279	340	41	725

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Corey, Daniel W., Galena, assignor to June Manufacturing Company, Chicago, Ill. Bobbin-winder	365,909	July 5	214	55	40	42
Corey, George H., Corey, Dak. Ter., and H. B. Mitchell, Malden, Mass. Chemical fire-extinguisher	366,649	July 19	1238	331	40	252
Corey, Rufus H., assignor of one-half to D. M. Osborne, Auburn, N. Y. Cord-tying bill for grain-binders	365,050	June 21	1228	324	39	1334
Corkhill, Henry R., Sr., Rochester, N. Y. Paper-bag machine	361,746	Apr. 26	1939	503 504 505 506	39	385
Corliss, Charles W., Fergus Falls, Minn. Converting motion	360,856	Apr. 12	654	172	39	129
Corliss, Cyrus K., Poughkeepsie, N. Y. Car-brake	365,243	June 21	1501	394 395	39	1385
Corman, Charles A., Cochituate, Mass. Eyeletting-machine	368,875	Aug. 23	2208	587 588	40	898
Cormany, Montgomery L. (See Roark, James S., assignor.)						
Cornbrooks, William A., Moline, assignor to Pettibone, Mulliken & Company, Chicago, Ill. Die for upsetting the abutting ends of rail-braces	367,502	Aug. 2	219	63	40	494
Cornbrooks, William A., Moline, assignor to Pettibone, Mulliken & Company, Chicago, Ill. Die for forming rail-braces	367,503	Aug. 2	221	63, 64	40	494
Cornelius, Charles F., assignor to himself and M. E. Sandford, New York, N. Y. Head-rest	368,323	Aug. 16	1431	379	40	740
Cornelius, Edward G. (See Wittenberg, Charles, assignor.)						
Cornelius, John, Oakland, Md. Stump-extractor	364,092	May 31	2874	745	39	1047
Cornelius, Nicholas, assignor of two-thirds to H. Stanley and E. C. Teuscher, St. Louis, Mo. Roller flour-mill	373,342	Nov. 15	1602	423	41	784
Cornell, Lewis T., Chicago, Ill. Gas-engine	359,920	Mar. 22	2231	561	38	1343
Cornell, Oliver H. P., Albany, N. Y. Railway-gate	363,808	May 31	2474	642 643	39	970
Cornely, Emil, Paris, France. Embroidering-machine	361,747	Apr. 26	1945	506	39	386
Cornely, Emil, Paris, France. Embroidered fabric	370,246	Sept. 20	1343	359	40	1302
Cornforth, John. (See Palmer, Charles A. E. T., assignor.)						
Corning, Thomas J., San José, Cal. Baling-press	363,365	May 24	1822	478	39	839
Corning, Thomas J., San José, Cal. Baling-press	368,074	Aug. 9	1071	286	40	662
Cornish, Harry B., and J. B. Moore, Blue Earth City, Minn. Coffee-pot	361,489	Apr. 19	1565	406	39	308
Cornman, Theodore, Sr. (See Donovan, Jeremiah, assignor.)						
Cornog, Isaac P., Philadelphia, Pa. Pattern-chain for looms	361,616	Apr. 19	1745	452	39	342
Cornstadt, Alexander. (See Cline and Cornstadt.)						
Cornwall, George, assignor to Eagle Pencil Company, New York, N. Y. Holder for pencils, &c	368,517	Aug. 16	1709	456	40	793
Cornwall, John B. (See Barnard and Cornwall.)						
Cornwall, John B., assignor to Barnard & Leas Manufacturing Company, Moline, Ill. Cut-off gate for bolting-chests	371,433	Oct. 11	991	258	41	201
Cornwell, Clark, Ypsilanti, Mich. Process of and apparatus for cooking wood pulp	357,371	Feb. 8	898	237	38	597
Corron, César, St. Etienne, Loire, France. Dyeing apparatus	363,949	May 31	2674	694	39	1006
Corron, César, St. Etienne, Loire, France. Machine for dyeing fabrics	370,856	Oct. 4	155	42	41	31
Corry, William, assignor to Hall's Safe and Lock Co., Cincinnati, Ohio. Safe, vault, &c	363,118	May 17	1495	395 396	39	767
Corry, William, assignor to Hall's Safe and Lock Co., Cincinnati, Ohio. Safe, vault, &c	364,753	June 14	772	205	39	1242
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Shutter-fastener	366,996	July 19	1696	456	40	337
Corser, Brackett G., Lebanon, N. H. Coat and making the same	364,219	June 7	27	8	39	1093
Corser, Brackett G., St. Albans, Vt. Overalls	366,621	July 12	1196	320	40	236
Corser, Brackett G., St. Albans, Vt. Combined button-holder and buckle	372,062	Oct. 25	1913	493	41	399
Corser, Edson J., assignor to G. W. Kirkpatrick, Macedon, N. Y. Fertilizer-distributor	374,453	Dec. 6	405	106	41	1123
Corson, Edward, Brooklyn, and O. C. Crane, New York, N. Y. Slack-adjuster for car-brakes	358,337	Feb. 22	2297	606	38	873
Corson, Edward, Brooklyn, and O. C. Crane, New York, N. Y. Slack-adjuster for car-brakes	360,400	Mar. 29	2986	757	38	1488
Corson, John B., et al. (See Bartlett, Henry F., assignor.)						
Cort, Nevin, New Florence, Pa. Cross-over switch	357,952	Feb. 15	1750	457	38	765
Cortright, Lewis D., Hyde Park, Ill., assignor to Cortright Metal Roofing Company, Philadelphia, Pa. Metallic roofing-plate or shingle	358,595	Mar. 1	274	64	38	954
Cortright, Lewis D., Hyde Park, Ill., assignor to Cortright Metal Roofing Company, of Pennsylvania. Metallic shingle or roofing-plate	359,959	Mar. 22	2298	578	38	1356
Cortright, Lewis D., Hyde Park, Ill., and S. P. Darlington, West Chester, Pa., assignors to Cortright Metal Roofing Company, of Pennsylvania. Metallic roofing-plate or shingle	359,958	Mar. 22	2296	577 578	38	1355
Cortright, Lewis D., Hyde Park, Ill., and S. P. Darlington, West Chester, Pa., assignors to Cortright Metal Roofing Company, of Pennsylvania. Metallic roofing-plate or shingle	370,317	Sept. 20	1442	386 387	40	1321
Cortright Metal Roofing Company. (See Cortright, Lewis D., assignor.)						
Cortright Metal Roofing Company. (See Cortright and Darlington, assignors.)						
Cortright Metal Roofing Company. (See Norcross, William M., assignor.)						
Cortright Metal Roofing Company. (See Thomas, Philip A., assignor.)						
Corwin, Frank E., East Saginaw, Mich. Fire-lighter	362,147	May 3	130	39	39	498
Corwin, Samuel W. (See Goodrich and Corwin.)						
Cory, Henry W., St. Paul, Minn. Case for law-blanks	360,999	Apr. 12	878	222	39	167
Cory, Jeremiah. (See Oilar and Cory.)						
Cory, Lewis M. (See Lake and Sawyer, assignors.)						
Cory, Mary E., Richmond, Ind. Sleeve-protector	360,564	Apr. 5	252	63	39	49
Cosby, James M., assignor to himself and W. M. Wilcox, Elberton, Ga. Hand-power attachment for sewing-machines	360,376	Mar. 29	2954	750	38	1482
Cosgrove, James, Brooklyn, N. Y. Barrel-hoop	366,932	July 19	1612	432	40	321
Costello, Harry, Barrington, assignor of one-half to L. H. Tillinghast, Providence, R. I. Water-closet valve	358,018	Feb. 22	1846	488	38	788
Costello, John, assignor of one-half to J. F. Simms, Attleborough, Mass. Lever-button	358,384	Feb. 22	2365	628	38	886
Costello, John, assignor of one-half to J. F. Simms, Attleborough, Mass. Button	361,490	Apr. 19	1566	406	39	308
Costello, John, assignor of one-half to J. F. Simms, Attleborough, Mass. Button	363,285	May 17	1713	449	39	810
Costello, Thomas E., Brooklyn, N. Y. Medicated calcimine	361,051	Apr. 12	948		39	180
Coston, William M., Centralia, Kans. Cultivator	374,941	Dec. 20	1131	296	41	1283
Cote, Augustus. (See Stone and Cote.)						
Cotes, Frank H. (See Edwards, Thompson V., assignor.)						
Cotter, Samuel E., Ansonia, Conn. Snap-hook	366,462	July 12	952	260	40	189
Cotterill, Charles A. (See Colby, John W., assignor.)						
Cotterman, Clinton M., Pymont, Ohio. Gravel-bed for wagons	361,675	Apr. 26	1847	479	39	370
Cottle, Luther M. (See Jeffery and Cottle.)						
Cotton, Charles L., Dedham, Mass. Manufacture of soles and heels	374,042	Nov. 29	2636	707	41	1002

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Cottrell, Abraham, Lansing, Mich. Rein-holder	364,336	June 7	174	48	39	1121
Cottrell, Calvert B. (See Overend, Andrew, assignor.)						
Cottrell, Calvert B., Stonington, Conn. Means for adjusting the air-spring plungers of printing-machines	355,865	Jan. 11	801	210	38	163
Cottrell, Calvert B., Stonington, Conn. Gripper mechanism for stop-cylinder printing-machines	358,962	Mar. 8	805	{ 203 204 529 530 }	{ 38 39 }	1058
Cottrell, Calvert B., Stonington, Conn. Chromatic-printing machine	365,581	June 28	2029	530	39	1497
Cottrell, Calvert B., Stonington, Conn. Reversing-gear for machinery	368,518	Aug. 16	1710	456	40	793
Cottrell, Calvert B., Stonington, Conn. Receiving-table for printing-machines	369,777	Sept. 13	633	171	40	1163
Cottrell, Edgar H., Stonington, Conn. Brake for driving-shafts	362,250	May 3	258	73	39	523
Cottrell, George, San Francisco, Cal. Roller-mill	356,623	Jan. 25	1907	500	38	386
Cottrell, Herbert, Newark, N. J. Clamp for can-covers	373,274	Nov. 15	1501	396	41	765
Couch, Nathan. (See Beers, Benjamin B., assignor.)						
Coughlin, Jeremiah, and W. Curtis, Oakland, Cal. Wheel-fender for wagons	367,191	July 26	1968	532	40	396
Coughlin, John J., assignor of three-fourths to D. J. Hern, J. M. Prendergast, Boston, and S. Oakman, Melrose, Mass. Electric police-call alarm-box	362,477	May 3	571	159	39	584
Coughlin, Michael, Philadelphia, Pa. Bevel-protractor	375,049	Dec. 20	1282	334	41	1310
Coughlin, William, New York, N. Y. Ash-sifter	370,933	Oct. 4	291	71	41	58
Coughlin, William H. (See Fairbanks and Coughlin.)						
Coultaus, George W., Calais, Ohio. Bridge	365,970	July 5	303	80	40	57
Coultaus, Joseph A., Brooklyn, N. Y., assignor to himself, W. H. Rollins, Portsmouth, N. H., and A. W. Rollins, Brooklyn, N. Y. Manipulating-rod for bolts, &c	357,116	Feb. 1	553	143	38	523
Coulter, Joseph M., Portland, Oreg. Oil-can and lamp-filler	367,273	July 26	2095	566	40	420
Coup, John, assignor of one-fourth to E. M. and R. M. Carrington, New York, N. Y. Car-coupling	361,140	Apr. 12	1079	{ 272 273 }	{ 39 39 }	205
Coup, John, assignor of one-fourth to E. M. Carrington, New York, N. Y. Car-coupling ..	361,141	Apr. 12	1082	273	39	206
Coup, John, assignor of one-eighth to E. M. Carrington, New York, N. Y. Car-coupling ..	361,209	Apr. 12	1189	{ 301 302 }	{ 39 39 }	225
Coup, John, New York, N. Y., assignor of one-half to J. C. Cable, New Haven, Conn. Truck.	370,008	Sept. 13	1002	263	40	1230
Coupal, Joseph. (See Clifford and Coupal.)						
Coupal, Joseph, and R. Stephenson, Wollaston, Mass. Device for inking the sole-edges of boots or shoes	371,434	Oct. 11	992	258	41	202
Coupal, Peter A., and C. E. Holland, Boston, assignors to C. F. Brown, trustee, Reading, Mass. Hand tacking-machine	358,770	Mar. 1	509	125	38	998
Coupland, Charles, Seymour, Conn. Let-off mechanism for looms for weaving double pile fabrics	365,910	July 5	216	55	40	42
Courter, Lemuel U., et al. (See McRae, Charles J., assignor.)						
Courter, William W., assignor to Bridgeport Spring Perch Company, Bridgeport, Conn. Open-head spring	361,991	Apr. 26	2306	600	39	451
Courtleyow, Jacob, assignor of one-half to D. Wormly, Chariton, Iowa. Pipe-wrench	362,819	May 10	1068	290	39	679
Courtman, Reuben S. (See Cayley and Courtman.)						
Courtright, Archibald L., Mount Hamill, Iowa. Hay-rake and gathering-machine	365,118	June 21	1337	354	39	1352
Courtright, John E., Shane's Crossing, Ohio. Stove-leg	356,708	Jan. 25	2010	527	38	406
Courville, Joseph. (See Schwesinger and Courville.)						
Courville, Joseph. (See Votey and Courville.)						
Courville, Joseph, Detroit, Mich. Reed-board for organs	366,997	July 19	1697	456	40	337
Cousins, Thomas, Norwalk, Conn. Child's tray	356,572	Jan. 25	1827	478	38	371
Covel, Milo, Chicago, Ill. Saw-sharpening machine	359,133	Mar. 8	1027	{ 266 267 }	{ 38 38 }	1100
Covel, Milo, Chicago, Ill. Device for swaging and jointing saws	359,134	Mar. 8	1029	267	38	1107
Covell, Edgar C., and E. S. Cram, Laconia, N. H. Knitting-machine	365,244	June 21	1515	395	39	1386
Covell, Edward T., assignor of one-half to C. F. Cushing, New Bedford, Mass. Harness-pad	357,981	Feb. 15	1800	472	38	774
Covell, Edward T., assignor of one-half to C. F. Cushing, New Bedford, Mass. Harness-saddle tree	370,318	Sept. 20	1442	387	40	1322
Covell, Edward T., assignor of one-half to C. F. Cushing, New Bedford, Mass. Seat for harness-saddle trees	370,319	Sept. 20	1444	387	40	1322
Covell, Edward T., assignor of one-half to C. F. Cushing, New Bedford, Mass. Checkrein attachment	370,320	Sept. 20	1445	387	40	1322
Covell, William W., assignor to F. I. Marcy, Providence, R. I. Button or stud	357,179	Feb. 8	670	168	38	550
Covell, William W., assignor to F. I. Marcy, Providence, R. I. Button or stud	374,115	Nov. 29	2746	738	41	1023
Covenhoven, Daniel R., Painted Post, N. Y. Car-coupling	365,330	June 21	1636	427	39	1409
Covert, Enoch, Farmer Village, N. Y. Adjustable blotter	362,361	May 3	401	111	39	552
Covert, Enoch, Farmer Village, N. Y. Umbrella-holder	362,364	May 3	404	112	39	553
Covert Fire Ladder and Stand Pipe Company. (See Olsen, Olaf R., assignor.)						
Covert, Harvey S. and I., Loudonville, Ohio. Car-coupling	369,232	Aug. 30	2699	717	40	1003
Covert, Ithamar. (See Covert, Harvey S. and I.)						
Covert, James C., West Troy, N. Y. Halter	362,494	May 10	597	169	39	594
Covey, Amaziah and S. J., Sigourney, Iowa. Coal-drilling machine	375,262	Dec. 20	1572	412	41	1368
Covey, Samuel J. (See Covey, Amaziah and S. J.)						
Covington, John Y., et al. (See Sanford, Marshal M., assignor.)						
Cowan, Allen B., Hall's Valley, Ohio. Milking-stool	359,921	Mar. 22	2235	562	38	1344
Cowan, Alonzo, Cascade, Iowa. Trough for feeding salt to live stock	366,933	July 19	1613	432	40	322
Cowan, Charles B. (See Ash, Joseph S., assignor.)						
Cowan, Charles H. (See Atwood and Cowan.)						
Cowan, John F., et al. (See Taylor, Lewis P., assignor.)						
Cowan, William, Edinburgh, Scotland. Oscillating liquid-meter	355,592	Jan. 4	385	{ 103 104 }	{ 38 38 }	77
Cowan, William, Edinburgh, Scotland. Gas-meter	358,187	Feb. 22	2106	556	38	835
Cowell, Albert M. (See Giles, Henry T., assignor.)						
Cowen, James H. (See Willis and Cowen.)						
Cowen, Robert, Cambridgeport, assignor to Boston Woven Hose Company, Boston, Mass. Kneader for india-rubber, &c.	357,700	Feb. 15	1398	368	38	700
Cowgill, James, Lowell, Mass. Loom	375,131	Dec. 20	1406	366	41	1334
Cowie, George, Jr., U. S. Navy. Scaling-tool for boilers, &c.	368,876	Aug. 23	2213	588	40	899
Cowing William J., Washington, D. C. Back-support for chairs	363,211	May 17	1618	425	39	791
Cowles, Alfred H. (See Cowles, Eugene H. and A. H.)						
Cowles & Company, C. (See Gates, William and L. W., assignors.)						
Cowles, Eugene H. and A. H., Cleveland, Ohio. Electric furnace	360,144	Mar. 29	2616	663	38	1420
Cowles, George B., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Machine for making lock-caps	368,133	Aug. 9	1147	304	40	677
Cowles, George B., assignor to P. & F. Corbin, New Britain, Conn. Key	371,823	Oct. 18	1547	400	41	322
Cowles, George B., assignor to P. & F. Corbin, New Britain, Conn. Making keys and key-blanks	371,824	Oct. 18	1548	400	41	323

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Cowles, Royal. (See Gale, Charles C., assignor.)						
Cowles, William, Brooklyn, N. Y. Ferry-boat	355,682	Jan. 11	530	{ 139 140 }	38	113
Cowman, Andrew J., Monroe, Iowa. Potato-digger	367,192	July 26	1969	532	40	396
Cox, Arthur, Toronto, Ontario, Canada. Letter blank and envelope	369,274	Aug. 30	2756	735	40	1014
Cox, Arthur W., Ballardvale, Mass. Table-knife	356,452	Jan. 25	1658	434	38	339
Cox, Arthur W., Ballardvale, Mass. Table-knife	356,453	Jan. 25	1659	434	38	339
Cox, Edward H., Slate Lick, Pa. Fifth-wheel	370,728	Sept. 27	2074	550	40	1445
Cox, Edward J., and D. E. Forton, Ewart, Mich. Sleigh	375,607	Dec. 27	2048	531	41	1466
Cox, Eliza M. (See Palmer, Thomas W., assignor.)						
Cox, George, Paterson, N. J. Excavator	375,132	Dec. 20	1408	366	41	1334
Cox, Harry B., Cincinnati, Ohio. Galvanometer	366,305	July 12	762	205	40	152
Cox, Harry B., Cincinnati, Ohio. Electrical repeating-bell	372,657	Nov. 8	556	152	41	585
Cox, Harry B., Cincinnati, Ohio. Galvanic battery	372,658	Nov. 8	557	152	41	585
Cox, Harry B., Cincinnati, Ohio. Galvanic battery	375,441	Dec. 27	1814		41	1423
Cox, Henry B., Cincinnati, Ohio. Hotel-signal	375,442	Dec. 27	1815	{ 474 475 }	41	1424
Cox, Henry F., Philadelphia, Pa. Rail-splice	362,722	May 10	932	254	39	655
Cox, Henry F., Philadelphia, Pa. Rail-splice	362,723	May 10	933	255	39	655
Cox, Henry F., Philadelphia, Pa. Clamp for rail-joints	371,553	Oct. 18	1155	301	41	243
Cox, Henry F., Philadelphia, Pa. Fish-plate	372,659	Nov. 8	558	152	41	585
Cox, Jacob D., Jr., assignor to Cox & Prentiss, Cleveland, Ohio. Guide for drill-blanks ..	367,894	Aug. 9	814	219	40	615
Cox, John. (See Bailey, Henry E., assignor.)						
Cox, John C., and W. F. Black, Louisville, Ky. Semaphore	356,573	Jan. 25	1828	478	38	371
Cox, Joseph D., assignor to M. E. Cox, Rochester, N. Y. Making bread	365,331	June 21	1637	427	39	1409
Cox, Joseph L., assignor to Duplex Printing Press Company, Battle Creek, Mich. Feed- governor for printing-presses	370,321	Sept. 20	1446	388	40	1322
Cox, Mary E. (See Cox, Joseph D., assignor.)						
Cox, Phebe E., Readington, N. J. Dish-washing machine	372,123	Oct. 25	2008	515	41	417
Cox & Prentiss. (See Cox, Jacob D., Jr., assignor.)						
Cox, Richard L., Greenville, N. C. Whiffletree	362,574	May 10	710	197	39	613
Cox, Thomas B. (See Haskins and Cox.)						
Cox, Thomas J., Gainesville, Tex. Portable flour and meal bin	359,347	Mar. 15	1318	342	38	1160
Cox, William H., Virden, Ill. Gate. (Reissue)	10,795	Jan. 4	516	136	38	102
Coxe, Eckley B., and S. Salmon, Drifton, Pa.; said Salmon assignor to said Coxe. Mechani- cal movement	369,233	Aug. 30	2700	717	40	1003
Coxe, George E. (See Coxe, Mervin and G. E.)						
Coxe, Mervin and G. E., Great Valley, N. Y. Drag-saw	361,052	Apr. 12	948	239	39	180
Coxhead, John F., Poughkeepsie, N. Y. Saw-setting vise	358,842	Mar. 8	623	154	38	1024
Coy, Frederick W., assignor to G. H. P. Flagg, trustee, Boston, Mass. Making heel-strips ..	357,552	Feb. 8	1175	309	38	650
Coy, Henry E., Toledo, Ohio. Machine for cutting screws	357,180	Feb. 8	651	169	38	550
Coyle, Andrew M., Washington, D. C. Method of and apparatus for distilling water	364,199	May 31	3035	789	39	1076
Coyle, Andrew M., Washington, D. C., assignor to W. B. Dunning, Geneva, N. Y. Steam- boiler	365,971	July 5	304	80	40	58
Coyne, Luke, New Haven, Conn. Clothes-line hook	363,601	May 24	2174	563	39	907
Crabb, James N., assignor of one-half to J. E. Taylor, Richmond, Ind. Horse-collar	365,463	June 28	1841	478	39	1460
Crafts, Francis H., assignor to E. & B. Holmes, Buffalo, N. Y. Journal-box	370,729	Sept. 27	2075	550	40	1446
Crafts, John L., Somerville, Mass. Extension-ladder	361,137	Apr. 12	1073	271	39	204
Crafts, Samuel P., Hamden, Conn. Brick-kiln	355,387	Jan. 4	126	34	38	26
Crafts, Samuel P., Hamden, Conn. Brick-machine	367,369	Aug. 2	21	5	40	455
Cragin, Patrick H. (See Russell and Cragin.)						
Craig, Abraham, assignor to Boston Clock Company, Boston, Mass. Finishing wheel- blanks	374,142	Nov. 29	2782	748	41	1029
Craig, Daniel H., agent. (See Boyle, Jeffrey C., assignor.)						
Craig, David B., Eureka, Kans. Hay-stacker	365,332	June 21	1638	{ 427 428 }	39	1409
Craig, Edward, Albion, Ill. Barrel stand and truck	372,604	Nov. 1	471	126	41	558
Craig, Frank S., assignor to New York and Brooklyn Coffin Company, Brooklyn, N. Y. Burial-casket fastening	362,037	Apr. 26	2371	618	39	462
Craig, George W., Grimm's Landing, W. Va. Weighing-scale	369,234	Aug. 30	2703	718	40	1003
Craig, James. (See Baker, Craig, and Singleton.)						
Craig, John C., Fenelon Falls, Ontario, Canada. Combined latch and lock	358,385	Feb. 22	2366	628	38	886
Craig, John C., Fenelon Falls, Ontario, Canada. Combined latch and lock	368,324	Aug. 16	1432	379	40	740
Craig, Robert S., Cincinnati, Ohio. Bait and fish bucket	372,124	Oct. 25	2009	515	41	417
Craig, Warren H., assignor, by mesne assignments, to himself and D. F. Robinson, Law- rence, Mass. Lubricator for locomotives	367,370	Aug. 2	22	6	40	455
Craig, William, Brooklyn, N. Y. Condenser	365,119	June 21	1339	355	39	1352
Craige, Edward H., Brooklyn, N. Y. Tamper-proof label	362,820	May 10	1068	290	39	679
Craige, Edward H., Brooklyn, N. Y. Hand attachment for treadles	369,235	Aug. 30	2704	718	40	1004
Crain, Benjamin B., et al. (See Ketchum, William G., assignor.)						
Crain, Lawrence S. (See Stalleup, John W., assignor.)						
Crain, William O., assignor of two-thirds to Wise Bros., Baltimore, Md. Button-attaching machine	368,134	Aug. 9	1149	305	40	677
Craine, William, Brookfield, N. Y. Broom or mop holder	369,318	Sept. 6	18	5	40	1038
Cram, Elisha S. (See Covell and Cram.)						
Cram, Merrill H., La Crosse, Wis. Device to prevent hens from sitting	365,672	June 28	2158	563	39	1521
Cramp & Sons Ship and Engine Building Company, William. (See See, Horace, assignor.)						
Crampton, Thomas R., Westminster, England. Railway-wheel	370,451	Sept. 27	1649	440	40	1367
Crandall, Arthur F., Lemars, Iowa. Harmonica-holder	360,857	Apr. 12	655	172	39	129
Crandall, Cyrus T. (See Ovenshire, Elijah A., assignor.)						
Crandall, Edgar J., Binghamton, N. Y. Fabric-holder	371,035	Oct. 4	437	110	41	87
Crandall, Fred W., Montrose, Pa. Toy spring-gun	355,975	Jan. 11	979	257	38	198
Crandall, Fred W., Montrose, Pa. Toy target	355,976	Jan. 11	981	257	38	199
Crandall, Henry F., assignor of one-half to Milwaukee Harvester Company, Milwaukee, Wis. Grain-binder	362,427	May 3	497	140	39	571
Crandall, Henry F., assignor of one-half to Milwaukee Harvester Company, Milwaukee, Wis. Grain-binder	372,520	Nov. 1	341	94	41	535
Crandall, Hosea B., Brocton, N. Y. Apparatus for cutting veneers	357,181	Feb. 8	653	169	38	551
Crandall, Jason W., assignor to R. Nixon and E. O. Rickart, Cortland, N. Y. Pickax and mattock	369,921	Sept. 13	859	227	40	1206
Crandall, Jesse A., Brooklyn, N. Y. Hobby-horse	366,571	July 12	1120	300	40	223
Crandall, Jesse A., Brooklyn, assignor of one-half to C. G. Mortimer, New York, N. Y. Pencil	364,220	June 7	29	9	39	1094
Crandall, Jesse A., assignor to A. P. Stevens, Brooklyn, N. Y. Chair for children	370,530	Sept. 27	1769	{ 471 472 }	40	1388

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Crandall, Jesse A., Brooklyn, assignor to W. Youngblood, Jamaica, N. Y. Shoe-blackening stand	371,036	Oct. 4	438	110	41	87
Crandall, Jesse A., Brooklyn, and F. Snyder, New York, N. Y. Hobby-horse	362,941	May 17	1243	330	39	718
Crandall, Mollie J., <i>et al.</i> (See Dickenson, Charles, assignor.)						
Crandall, Nathan W., assignor of one-half to G. W. Jopson, Meriden, Conn. Key-ring	368,135	Aug. 9	1151	305	40	678
Crandall, William E., New York, N. Y. Child's carriage	356,100	Jan. 18	1162	307	38	238
Crandell, Edgar J., assignor of one-half to G. H. Ford, Binghamton, N. Y. Hose-supporter	355,388	Jan. 4	127	34	38	27
Crandell, James E. (See Murray, Michael R., assignor.)						
Crane & Breed Manufacturing Company. (See Edgley, George R., assignor.)						
Crane Brothers Manufacturing Company. (See Reynolds, George H., assignor.)						
Crane Elevator Company. (See Crane and Reynolds, assignors.)						
Crane Elevator Company. (See Heermans, Thaddeus W., assignor.)						
Crane Elevator Company. (See Reynolds, George H., assignor.)						
Crane Elevator Company. (See Veeder, John I., assignor.)						
Crane, Moses G., Newton, Mass. Lifting-jack	355,866	Jan. 11	803	210	38	163
Crane, Origen C. (See Corson and Crane.)						
Crane, Richard T., Chicago, Ill. Chime steam-whistle	359,775	Mar. 22	2008	507	38	1302
Crane, Richard T., Chicago, Ill. Pipe-hanger	368,755	Aug. 23	2046	541	40	866
Crane, Theodore F., Rantoul, Ill. Hame-tug	355,389	Jan. 4	128	34	38	27
Crane, Theodore F., Newark, N. J. Arm-rest for penmen	364,705	June 14	703	187	39	1229
Crane, Thomas R., Heathsville, Va. Grain-drill tube	363,286	May 17	1715	449	39	810
Crane, Thomas R., Heathsville, Va. Covering attachment for shoes of grain-drills	363,602	May 24	2175	563	39	907
Crane, Thomas R., Heathsville, Va. Fertilizer-feed for drills	363,603	May 24	2176	563	39	907
Crane, Thomas R., Heathsville, Va. Feed device for grain-drills	363,604	May 24	2177	564	39	908
Crane, Thomas R., Heathsville, Va. Grain-drill	363,605	May 24	2178	564	39	908
Crane, Thomas R., Heathsville, Va. Drill-tube	363,606	May 24	2180	565	39	908
Crane, Thomas R., Heathsville, Va. Harrow	364,575	June 7	526	141	39	1187
Crane, Thomas R., Heathsville, Va. Broadcast seeder	364,576	June 7	527	142	39	1187
Crane, Thomas R., Heathsville, Va. Tube for grain and fertilizer drills	364,577	June 7	528	142	39	1187
Crane, Thomas R., Heathsville, Va. Combined plow, harrow, and planter	364,906	June 14	1013	266	39	1285
Crane, Thomas R., Heathsville, Va. Grain-drill	372,125	Oct. 25	2010	516	41	417
Crane, Thomas R., Heathsville, Va. Grain-drill tube	372,126	Oct. 25	2011	516	41	417
Crane, Thomas R., Heathsville, Va. Grain-drill	372,127	Oct. 25	2012	516 517	41	417
Crane, Thomas R., Heathsville, Va. Feed device for grain-drills	374,454	Dec. 6	406	106	41	1123
Crane, Thomas R., Heathsville, Va. Hopper for fertilizer-drills	374,455	Dec. 6	407	106	41	1123
Crane, William F., and G. H. Reynolds, New York, N. Y., assignors to Crane Elevator Company, Chicago, Ill. Inclined hoist	368,325	Aug. 16	1432	380	40	740
Crane, William F., and G. H. Reynolds, New York, N. Y., assignors to Crane Elevator Company, Chicago, Ill. Elevator	368,756	Aug. 23	2047	542	40	866
Crane, William H., Woodbury, N. J., assignor of three-fourths to H. M. Love, Philadelphia, Pa. Key-fastener	355,593	Jan. 4	387	105	38	78
Cranmer, William C. (See Arnold and Cranmer.)						
Cranson, Giles S., assignor to Cranson, Huntley & Co., Silver Creek, N. Y. Grain-scourer	356,273	Jan. 18	1391	368	38	282
Cranson, Huntley & Co. (See Cranson, Giles S., assignor.)						
Cranson, Huntley & Company. (See Huntley, William W., assignor.)						
Cravens, James R., Ringgold, Ga. Hub	360,858	Apr. 12	656	172	39	129
Craw, Joseph T., Jersey City, N. J. Paper box	355,977	Jan. 11	982	257 258	38	199
Craw, Joseph T., Jersey City, N. J. Folding paper box	371,925	Oct. 25	1704	442	41	362
Crawford, Alexander M., Campbell Hall, N. Y. Concealed flush hinge	361,268	Apr. 19	1270	324	39	253
Crawford, Andrew L., <i>et al.</i> (See Turner, Isaac P., assignor.)						
Crawford, Charles, assignor of one-third to S. P. Thorn, Clintondale, N. Y. Box-making machine	363,592	May 24	2149	559 560	39	905
Crawford, Charles A., Thompson, Conn. Pie-plate rim	368,382	Aug. 16	1504	401	40	755
Crawford, David, Asbury Park, N. J. Automatic tension for sewing-machines	358,963	Mar. 8	807	204	38	1058
Crawford, George S., and B. F. Kinnear, Cincinnati, Ohio. Wood-embossing machine	365,673	June 28	2159	563	39	1521
Crawford, James G., E. F. Poland, Boston, and M. W. Robinson, Somerville, Mass.; said Poland and Robinson assignors to said Crawford. Ironing-machine	359,135	Mar. 8	1030	267 268	38	1101
Crawford, John. (See Hard and Crawford.)						
Crawford, Middleton, Brooklyn, N. Y., assignor to American Cotton Seed Company, of New Jersey. Machine for removing lint or fiber from cotton-seed	358,256	Feb. 22	2187	576 577	38	851
Crawford, Middleton, Brooklyn, assignor to W. R. Baird, New York, N. Y. Vise	375,537	Dec. 27	1937	507	41	1448
Crawford, Middleton, Brooklyn, assignor to W. R. Baird, New York, N. Y. Vise	375,538	Dec. 27	1939	507	41	1448
Crawford, Robert, <i>et al.</i> (See Rodger, Thomas, assignor.)						
Crawley, Edwin, Newport, Ky. Machine for rounding and backing books	372,128	Oct. 25	2014	517 518	41	418
Creager, Jonathan, Cincinnati, Ohio. Clay-pulverizer	361,000	Apr. 12	879	222	39	167
Creager, Jonathan, Cincinnati, Ohio. Brick-machine	364,907	June 14	1015	266	39	1285
Creager, Jonathan, Cincinnati, Ohio. Conveyor	373,389	Nov. 15	1683	446	41	799
Creamer, Henry, New York, N. Y. Steam feed-water trap	358,964	Mar. 8	807	204	38	1058
Creamer, Henry, New York, N. Y. Steam feed-water trap. (Reissue)	10,853	Aug. 2	637	170 171	40	571
Creamer, Walter J., and J. D. Leach, Penobscot, Me. Life-preserver	369,319	Sept. 6	19	5	40	1038
Crebbin, Thomas, Luther, Mich. Saw-swaging machine	360,420	Apr. 5	25	8	39	7
Crecelius, Louis J., St. Louis, Mo. Railway track-drill	375,669	Dec. 27	2138	555 556	41	1483
Crecelius, Louis J., St. Louis, Mo. Railway track-drill	375,670	Dec. 27	2140	556	41	1484
Cree, J. Thompson, Worcester, Mass. Shedding mechanism for looms	372,840	Nov. 8	849	226 227	41	636
Cregier, Dewitt C., Chicago, Ill. Pressure-regulator for water-supply mains	359,315	Mar. 15	1275	330	38	1153
Cregier, Dewitt C., Chicago, Ill. Street-railway	369,397	Sept. 6	120	35	40	1055
Cregier, Dewitt C., Chicago, Ill. Street-railway rail	369,398	Sept. 6	122	35	40	1055
Creque, Allen P., New York, N. Y. Pedestal for range-boilers	367,093	July 26	1838	495 496	40	372
Creque, Allen P., New York, N. Y. Boiler stand or pedestal	375,133	Dec. 20	1409	366	41	1334
Creque, Allen P., New York, N. Y. Pedestal for range-boilers	375,412	Dec. 27	1772	464	71	1415
Cressey, George. (See Deitzman and Cressey.)						
Cresson, Clement. (See Bretherton, Martin, assignor.)						
Cresswell, Francis A., Strongstown, Pa. Steam-actuated valve	358,804	Mar. 1	558	139	38	1008
Creuzbaur, Robert, Brooklyn, N. Y. Steam-engine	358,843	Mar. 8	624	154 155	38	1024
Creuzbaur, Robert, Brooklyn, N. Y. Steam-engine	358,844	Mar. 8	626	155 156	38	1025
Creuzbaur, Robert, Brooklyn, N. Y. Steam-engine	358,845	Mar. 8	632	157	38	1026

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Creuzbaur, Robert, Brooklyn, N. Y. Steam-engine	358,846	Mar. 8	636	158	38	1026
Creuzbaur, Robert, Brooklyn, N. Y. Steam-engine	365,797	July 5	50	15	40	11
Creuzbaur, Robert, Brooklyn, N. Y. Jacket for steam-cylinders	369,922	Sept. 13	860	{ 227 228	{ 40	1206
Creuzbaur, Robert, Brooklyn, N. Y. Compound single-acting steam-engine	369,923	Sept. 13	864	{ 228 229	{ 40	1206
Crigler, Thomas E., <i>et al.</i> (See Woodhurst, Hazzard, assignor.)						
Crisp, Joseph E. (See Copeland and Crisp.)						
Crisp, Joseph E. (See Copeland, Crisp, and Grandy.)						
Crisp, Joseph E. (See Kimpton and Crisp.)						
Crisp, William W. (See Wood and Crisp.)						
Crisp, William W., Cheltenham, county of Gloucester, England. Trousers and pattern therefor	366,155	July 5	548	147	40	103
Crist, John, assignor of one-half to J. S. Alexander, Browning, Mo. Cutting apparatus for harvesters	362,821	May 10	1069	290	39	679
Crist, John L. (See Ingraham and Crist.)						
Crist, John T., Jersey Shore, Pa. Horse-rake	356,351	Jan. 18	1512	397	38	304
Cristadoro, Charles, New York, N. Y. Pad	372,458	Nov. 1	259	71	41	519
Criswell, Joel T., Collamore, Pa. Mitering-machine	363,119	May 17	1496	396	39	767
Crittenden, William H., Belden, Ohio. Road-scraper	373,884	Nov. 29	2415	649	41	958
Croake, Daniel, Milwaukee, Wis. Bung-retainer and stamp-protector	370,857	Oct. 4	157	42	41	31
Crocker, Ara D., Sheboygan, Wis. Chair	367,702	Aug. 2	518	142	40	549
Crocker, Eugene B., Pawtucket, R. I. Necktie-fastener	366,156	July 5	549	148	40	104
Crocker Filtering Company. (See Crocker, James A., assignor.)						
Crocker, Francis B. (See Curtis and Crocker.)						
Crocker, Francis B. (See Curtis, Wheeler, and Crocker.)						
Crocker, Francis B., and C. G. Curtis, New York, N. Y., assignors to C. & C. Electric Motor Company. Electric battery	358,386	Feb. 22	2367	629	38	886
Crocker, James A., Boston, Mass., assignor to Crocker Filtering Company. Filtering-machine	358,106	Feb. 22	1977	522	38	812
Crocker, James A., Boston, Mass., assignor to Crocker Filtering Company. Filtering-machine	358,107	Feb. 22	1979	522	38	812
Crocker, James A., Boston, Mass., assignor to Crocker Filtering Company. Filtering-machine	358,108	Feb. 22	1981	523	38	813
Crocker, Richard, Mazomanie, and J. Diehl, Franksville, Wis. Vehicle-spring	371,825	Oct. 18	1549	400	41	323
Crocker, Richard, Mazomanie, and J. Diehl, Franksville, Wis. Vehicle-spring	371,826	Oct. 18	1551	401	41	323
Crocker, Robert L. (See Wakeman and Crocker.)						
Crockett, John R., Flatonia, Tex. Dredging-machine	362,877	May 10	1146	308	39	693
Crockett, Virgil, Dexter, Me. Double-seaming machine	372,896	Nov. 8	929	251	41	651
Crockford, Alfred H. (See Johnson, William C., assignor.)						
Crockford, Alfred H., East Newark, N. J. Boiler-cleaner and water-heater	360,145	Mar. 29	2619	663	38	1421
Crockford, Alfred H., Harrison, N. J. Water heater and purifier	373,647	Nov. 22	2080	{ 555 556	{ 41	886
Crofford, Warren K., New York, N. Y., assignor to W. Bardsley, Kearney Township, N. J. Door for hoistways	373,053	Nov. 15	1168	313	41	704
Croft, Eber R., Newburyport, Mass. Window	357,701	Feb. 15	1400	368	38	700
Cromer, Lawrence W. (See Gavin and Cromer.)						
Crommer, Robert, Philadelphia, Pa. Trousers-stretcher	362,495	May 10	599	169	39	594
Crommer, Robert, and A. H. Phillips, Philadelphia, Pa. Stand for flat-irons	359,204	Mar. 8	1117	291	38	1117
Crompton Company. (See Graemiger, August, assignor.)						
Crompton, George. (See Dunn, Denis, assignor.)						
Crompton, George, deceased, (M. C. Crompton administratrix,) Worcester, Mass. Carpet fabric	363,366	May 24	1823	479	39	840
Crompton, George, deceased, (M. C. Crompton administratrix,) Worcester, Mass. Loom	363,367	May 24	1824	479	39	840
Crompton, George, deceased, (M. C. Crompton administratrix,) and H. Wyman, Worcester, Mass.: said Wyman assignor to said Crompton. Friction-clutch	363,507	May 24	2038	530	39	881
Crompton, George, deceased, (M. C. Crompton, administratrix,) and H. Wyman, Worcester, Mass., assignors to said George Crompton. Let-off mechanism for looms	364,807	June 14	872	{ 229 230	{ 39	1258
Crompton, Mary C. (See Wyman, Horace, assignor.)						
Crompton, Mary C., administratrix. (See Crompton, George.)						
Crompton, Mary C., administratrix. (See Crompton and Wyman.)						
Crompton, Mary C., administratrix. (See Dunn, Denis.)						
Crompton, Mary C., administratrix. (See McDade, John, assignor.)						
Cromwell, William, Florida, assignor of one-third to F. J. English, Spring Valley, N. Y. Insecticide	375,263	Dec. 20	1574	.....	41	1369
Cron, Andrew J., assignor to Cron, Kills & Co., Piqua, Ohio. Adjustable and separable furniture	361,992	Apr. 26	2307	600	39	451
Cron, Kills & Co. (See Cron, Andrew J., assignor.)						
Cronan, James W., Tiptonville, Tenn. Hub	365,367	June 28	1690	440	39	1432
Cronan, John, Minneapolis, Minn. Hoisting-tackle	360,859	Apr. 12	656	173	39	130
Cronk, William, Havana, N. Y. Combined screw-driver and brad-awl	366,205	July 12	620	170	40	125
Crook, Charles, Brooklyn, assignor to F. M. Earle, Mexico, N. Y. Butter-dish machine	361,138	Apr. 12	1075	{ 271 272	{ 39	204
Crook, Charles, New York, assignor to F. M. Earle, Mexico, and W. M. White, Utica, N. Y. Manufacturing butter-dishes	375,264	Dec. 20	1575	413	41	1369
Crooker Manufacturing Company, William W. (See Crooker, William W., assignor.)						
Crooker, William W., Lynn, Mass. Device for inking the soles of boots or shoes	370,452	Sept. 27	1649	440	40	1367
Crooker, William W., Lynn, Mass. Device for inking the edges of shoe-soles	373,390	Nov. 15	1684	447	41	799
Crooker, William W., assignor to W. W. Crooker Manufacturing Company, Lynn, Mass. Device for inking the edges of boot or shoe soles	367,895	Aug. 9	815	219	40	615
Croom, Wiley G., assignor of one-half to G. S. Irving, Vicksburg, Miss. Lamp attachment	371,124	Oct. 4	558	142	41	110
Cropper, Joseph C., Cedar Falls, Iowa. Washing-machine	371,125	Oct. 4	558	142	41	110
Crosby, Abel A. (See Gilzinger, Sebastian, assignor.)						
Crosby, Charles B., Frankfort, N. Y. Curry-comb	370,047	Sept. 20	1064	281	40	1250
Crosby, Edward H., Boston, Mass. Electric hose-coupling	368,654	Aug. 23	1890	504	40	837
Crosby, George H., Somerville, Mass. Whistle	357,702	Feb. 15	1401	368	38	700
Crosby, George H., and A. C. Meady, Somerville, assignors to Crosby Steam Gage and Valve Company, Boston, Mass. Safety-valve	356,525	Jan. 25	1756	457	38	357
Crosby, J. Park. (See Jayne, William, assignor.)						
Crosby, J. Park. (See Jayne and Crosby.)						
Crosby, J. Park, and W. Jayne, New York, N. Y. Wardrobe-hook	364,990	June 14	1139	298	39	1307
Crosby, James H., Boston, Mass. Automatic signal apparatus	355,639	Jan. 4	466	{ 124 125	{ 38	92

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Crosby, Oliver, St. Paul, Minn. Hoisting-machine	356,526	Jan. 25	1757	457	38	358
Crosby Steam Gage and Valve Company. (See Crosby and Meady, assignors.)						
Crosby Steam Gage and Valve Company. (See Meady, Albert C., assignor.)						
Crosby Steam Gage and Valve Company. (See Meady and Dodge, assignors.)						
Crosley, Powel. (See English and Stubbers, assignors.)						
Crosman, George A., et al. (See Glazier, George W., assignor.)						
Cross, Andrew B., Salem, Mass. Apparatus for measuring cloth in bolts	372,660	Nov. 8	559	153	41	585
Cross, Anson K., Boston, Mass. Easel	364,991	June 14	1139	298	39	1307
Cross, Anson K., Boston, Mass. Studio-easel	374,116	Nov. 29	2747	738	41	1023
Cross, Arthur E., assignor of one-half to B. F. Rex, St. Louis, Mo. Cable-car signal	369,275	Aug. 30	2757	{ 735 736 }	{ 40 40 }	1014
Cross, Floyd R., Maple Rapids, Mich. Slide-rest	356,709	Jan. 25	2011	528	38	406
Cross, Frank, Louisville, Ky., assignor of one-half to H. A. Buerk, New Albany, Ind. Burglar-alarm and call-bell	365,368	June 28	1692	441	39	1432
Cross, Frank W., Washington, D. C. Curb for presses	370,247	Sept. 20	1344	359	40	1303
Cross, Frank W., Washington, D. C. Ship's binnacle	370,248	Sept. 20	1345	{ 359 360 }	{ 40 40 }	1303
Cross, George N., Norwich, Conn. Spool-holder	363,728	May 24	2359	612	39	942
Cross, Ira, Nashua, N. H. Loom-shuttle	375,265	Dec. 20	1577	413	41	1369
Cross, Peter M., Phillips, assignor of one-half to Spanogle & Co., Aurora, Nebr. Valve for steam-engines	363,317	May 17	1758	460	39	818
Cross, Peter M., Phillips, assignor of one-half to Spanogle & Co., Aurora, Nebr. Reversing-valve for steam-engines	363,318	May 17	1759	461	39	818
Cross, William C., Boston, Mass. Machinery for the manufacture of paper bags	363,729	May 24	2360	{ 612 613 }	{ 39 39 }	942
Crossley, Francis W. (See Holt, Henry P., assignor.)						
Crossley, Francis W., Openshaw, Manchester, county of Lancaster, England. Gas-engine	370,322	Sept. 20	1447	388	40	1323
Crossley, Francis W., H. P. Holt, and F. H. Anderson, Openshaw, Manchester, county of Lancaster, England. Pendulum-governor for gas-motor engines	363,508	May 24	2039	530	39	882
Crossley, Samuel. (See Quinn and Crossley.)						
Crossman, John A., and N. C. Buch, assignors to E. C. Atkins & Company, Indianapolis, Ind. Saw-swaging machine	363,730	May 24	2361	613	39	943
Crosswell, Herbert E., assignor of one-half to W. A. Griffith, Providence, R. I. Rail-fastening device	362,428	May 3	498	141	39	571
Crosswell, Lewis P., McLean, Ill. Wrench	367,703	Aug. 2	519	143	40	549
Crosswell, Samuel P., 2d, Medford, Mass. Sash-fastening	356,190	Jan. 18	1280	338	38	259
Crothers, Caleb, Wyandotte, Kans. Mechanical oiler	355,757	Jan. 11	638	166	38	134
Crothers, Caleb, Wyandotte, Kans. Combined punching and shearing machine	368,571	Aug. 23	1785	475	40	817
Crotty, John. (See Shedlock, Alfred, assignor.)						
Crouch, Frank J., Eugene City, Oreg. Galvanic battery	374,456	Dec. 6	408	106	41	1124
Crouch, George, New York, N. Y. Trunk or case	371,554	Oct. 18	1156	301	41	243
Crouse, Fred. M., and R. E. Lewis, Racine, Wis. Cork-presser	360,340	Mar. 29	2295	738	38	1473
Crow, Benjamin F., assignor of one-half to F. B. Brownell, St. Louis, Mo. Car-brake	363,319	May 17	1761	461	39	819
Crow, Benjamin F., assignor to Brownell & Wight Car Company, St. Louis, Mo. Car-brake	364,706	June 14	704	{ 187 188 }	{ 39 39 }	1229
Crow, W. J., et al. (See Haltom, Samuel, assignor.)						
Crow, William. (See Culver and Crow.)						
Crowdus, Walter A., Dallas, Tex. Electrical fare-box	357,372	Feb. 8	899	{ 237 238 }	{ 38 38 }	597
Crowdus, Walter A., and H. M. Sutton, Dallas, Tex. Electric-arc lamp	358,145	Feb. 22	2038	536	38	822
Crowdus, Walter A., and H. M. Sutton, Dallas, Tex. Electric-arc lamp	360,377	Mar. 29	2295	750	38	1482
Crowe, Charles P., Mount Gilead, Ohio. Vehicle-spring	371,435	Oct. 11	994	258	41	202
Crowe, Richard R., et al. (See Laforge, George M., assignor.)						
Crowe, William. (See Koplin and Crowe.)						
Crowell, Charles T., Denver, Colo. Dielectric composition	361,347	Apr. 19	1375	.....	39	271
Crowell, Everard S., Rochester, Minn. Stretching and drying frame for sensitized paper	362,429	May 3	499	141	39	572
Crowell, George W., Rogers Park, Ill., assignor, by mesne assignments, to American Paper Bottle Company, of New York. Machine for adjusting the ends in vessels	360,951	Apr. 12	796	205	39	153
Crowell, George W., Rogers Park, Ill., assignor, by mesne assignments, to American Paper Bottle Company, of New York. Machine for coating the interior of vessels with water-proof lining	360,952	Apr. 12	798	206	39	154
Crowell, Hilen C., Erie, Pa. Shaft-bushing for loose pulleys	372,521	Nov. 1	342	94	41	535
Crowell, Luther C., Brooklyn, N. Y. Pasting apparatus	360,860	Apr. 12	658	{ 173 174 }	{ 39 39 }	130
Crowell, Luther C., Brooklyn, N. Y. Web-feeding mechanism for printing-machines	365,051	June 21	1229	{ 324 325 }	{ 39 39 }	1334
Crowell, Luther C., Brooklyn, N. Y. Sheet-associating mechanism	373,224	Nov. 15	1436	{ 379 380 }	{ 41 41 }	753
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Web printing and delivery mechanism	357,551	Feb. 8	1169	{ 307 308 309 }	{ 38 38 }	648
Crowell Manufacturing Company. (See Lowman, William W., assignor.)						
Crowell, Solomon, assignor of two-thirds to A. H. Matson and S. A. Seager, Syracuse, N. Y. Lunch-heater	366,764	July 19	1399	374	40	281
Crowl, George, New Lisbon, Ohio. Roofing	360,796	Apr. 5	560	146	39	105
Crowley, Daniel, Boston, Mass. Velocipede	367,025	July 26	1735	467	40	352
Crowley, Edward, Pierce, Nebr. Machine for catching and destroying potato-bugs	361,139	Apr. 12	1078	272	39	205
Crownfield, Herman F. D., assignor of one-half to F. X. Ganter, Baltimore, Md. Combined latch and lock	366,998	July 19	1698	456	40	337
Crowson, William L., assignor of one-half to T. H. and J. D. Milburn, Memphis, Tenn. Flying top	368,909	Aug. 23	2262	601	40	908
Crowther, William B., Sr., Ocean Beach, N. J. Chimney cowl and ventilator	357,269	Feb. 8	772	200	38	573
Crozier, William C., assignor of one-half to C. H. Flournoy and R. H. Sansom, Knoxville, Tenn. Hand-stamp	368,572	Aug. 23	1786	475	40	817
Crull, Lafayette. (See Lingle and Crull.)						
Crum, Albert, The Dalles, Oreg. Miter-box	367,704	Aug. 2	520	143	40	549
Crum, George D. (See Shipley, John, assignor.)						
Crum, Joseph S., Manhattan, Kans. Listing-plow	355,978	Jan. 11	983	258	38	199
Crumbaker, Fred R., Mendon, Mich. Thill-coupling	365,052	June 21	1234	325	39	1335
Crumbie, Alexander. (See McCollum, Parr, and Crumbie.)						
Crumbie, Thomas J., et al. (See Nulty, James T., assignor.)						
Crume & Sefton Manufacturing Co. (See Roberts, Webster, assignor.)						
Crump, Walter S., Westfield, N. Y. Toy pistol	370,378	Sept. 27	1542	413	40	1348
Cruse, John H., Felicity, Ohio. Tiling	374,143	Nov. 29	2783	748	41	1030

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Crutcher, Jane P., Franklin County, Ky. Vine-support.....	358,596	Mar. 1	275	64	38	954
Cruttenden, Will H., and M. E. Card, Cazenovia, N. Y. Flying target.....	356,929	Feb. 1	255	71	38	468
Cubley, Edwin J., Ravenswood, Ill. Banjo.....	357,270	Feb. 8	773	200	38	573
Cuendet, Emile, Hoboken, N. J. Safety-check for music-boxes.....	363,451	May 24	1946	509	39	862
Cuendet, Emile. (See Junod, Arthur, assignor.)						
Culberson, John L., Hendrysburg, assignor of one-third to G. E. and S. Hilles, Barnesville, Ohio. Padlock.....	360,861	Apr. 12	662	174	39	130
Culbertson, John W., Indianapolis, Ind. Inbaler.....	361,748	Apr. 26	1946	506	39	386
Culley, George H. (See Kitzmiller and Culley.)						
Cullingworth, George R. (See Tarn and Schury, assignors.)						
Cullingworth, George R., New York, N. Y. Apparatus for drying compressed air.....	357,703	Feb. 15	1403	369	38	701
Cullingworth, George R., New York, N. Y. Coal-drilling machine.....	365,732	June 28	2254	587	39	1538
Cullingworth, George R., New York, N. Y. Quarry-frame for rock-drills.....	365,733	June 28	2256	588	39	1538
Cullingworth, George R., New York, N. Y. Rock-drill clamp.....	371,672	Oct. 18	1323	342	41	277
Cully, William W., West Plains, Mo. Pump.....	356,750	Feb. 1	14	5	38	425
Culver, Edmund B., Great Barrington, Mass. Hat-holder.....	361,577	Apr. 19	1690	436	39	330
Culver, George T., New Haven, Conn. Curling-tongs.....	356,030	Jan. 11	1046	275	38	211
Culver, James H., San Francisco, Cal. Time and longitude indicator.....	357,117	Feb. 1	554	143	38	523
Culver, James H., San Francisco, Cal. Calipers.....	371,489	Oct. 11	1056	275	41	215
Culver, James H., San Francisco, Cal. Machine for making spiral moldings.....	371,673	Oct. 18	1325	342	41	277
Culver, John B., and W. Crow, Wichita, Kans. Water-power.....	370,323	Sept. 20	1449	389	40	1323
Culver, John P., Los Angeles, Cal. Tree cover and fumigator.....	367,134	July 26	1894	513	40	382
Culver, Joseph E., Jersey City, N. J. Steam-generator.....	368,573	Aug. 23	1787	476	40	817
Culver, Joseph E., Jersey City, N. J. Steam-generator.....	372,360	Nov. 1	111	33, 34	41	492
Culver, Lucius L., St. Louis, Mo. Hot-air furnace.....	369,100	Aug. 30	2543	{ 674 675 }	{ 40 41 }	{ 970 826 }
Culver, Willard B., assignor of one-third to J. B. Schiffer, Pittston, Pa. Shaft-coupling.....	373,443	Nov. 22	1762	467	41	826
Culver, Willard B., assignor of one-third to J. B. Schiffer, Pittston, Pa. Steam-engine.....	373,444	Nov. 22	1763	{ 467 468 }	{ 41 41 }	{ 826 1079 }
Culy, David J., Felton, Minn. Well-drilling machine.....	374,292	Dec. 6	168	44	41	1079
Cummer, Herbert. (See Cummer, William and H.)						
Cummer, William and H., Cadillac, Mich. Ladder.....	355,683	Jan. 11	533	140	38	114
Cumming, Findlay. (See McLean and Cumming.)						
Cumming, John A., Crawford, Nebr. Planting attachment.....	367,743	Aug. 2	590	{ 160 161 }	{ 40 40 }	{ 562 342 }
Cummings, Albert G., Harrisburg, assignor to Union Switch and Signal Company, Pitts- burg, Pa. Railway-signal.....	361,617	Apr. 19	1746	{ 452 453 454 }	{ 39 39 40 }	{ 342 1367 152 }
Cummings, Albert G., Harrisburg, assignor to Union Switch and Signal Company, Pitts- burg, Pa. Switch and signal apparatus.....	370,453	Sept. 27	1650	{ 440 441 }	{ 40 40 }	{ 1367 1415 }
Cummings, Albert G., Harrisburg, Pa., assignor to Pennsylvania Steel Company, of Penn- sylvania. Semaphore-signal and switch stand.....	366,306	July 12	764	206	40	152
Cummings, Frank F., New York, N. Y. Show-stand for bottles.....	375,413	Dec. 27	1773	464	41	1415
Cummings, George F., et al. (See Floyd, John, assignor.)						
Cummings, George K., et al. (See Schoen, Charles T., assignor.)						
Cummings, Henry H., Malden, and L. O. Dion, Natick, Mass.; said Cummings assignor to said Dion. Machine for setting tack-rivets.....	364,578	June 7	530	142	39	1188
Cummings, James K., Ladonia, Tex. Coffee-pot.....	362,878	May 10	1147	308	39	693
Cummings, James W. (See Schonacker, John E., assignor.)						
Cummings, John E., et al. (See Schoen, Charles T., assignor.)						
Cummings, John R., assignor to American Press Association, Chicago, Ill. Type and lead. Cummings, John R., Chicago, Ill., assignor to American Press Association of Chicago. Printing-block.....	359,960	Mar. 22	2299	578	38	1356
Cummings, Uriah, Buffalo, N. Y. Air-compressor.....	369,632	Sept. 6	445	124	40	1119
Cummings, William F., Bradford, Vt. Automatic car-brake.....	363,509	May 24	2041	531	39	882
Cummings, William H., Charlton Depot, Mass. Water-filter.....	358,547	Mar. 1	197	46	38	939
Cummings, William J., Ipswich, Mass. Feather-renovator.....	363,120	May 17	1498	396	39	767
Cummings, William K. (See Lederle, Edward E., assignor.)	370,454	Sept. 27	1653	441	40	1368
Cummins, Mary E. (See Misener, William D., assignor.)						
Cumnock, Alexander G. (See Falls, Alonzo, assignor.)						
Cumnock, George W., Woonsocket, R. I. Spinning-machine.....	370,324	Sept. 20	1450	389	40	1323
Cumnock, James W., and E. Skillings, Chicopee, Mass., assignor to Great Falls Spool and Bobbin Company, Great Falls, N. H. Spool.....	370,121	Sept. 20	1177	312	40	1270
Cumnock, John, South Hadley Falls, Mass. Seersucker fabric.....	369,276	Aug. 30	2759	736	40	1015
Cumnock, Walter W., Henderson, Ky., assignor of one-half to G. Draper & Sons, Hope- dale, Mass. Pitman.....	368,519	Aug. 16	1711	456	40	794
Cundall, Robert, Shipley, near Bradford, county of York, England. Paper-folding ma- chinery.....	371,877	Oct. 18	1637	{ 422 423 }	{ 41 41 }	{ 340 1066 }
Cundey, Elijah, Philadelphia, Pa. Bat.....	364,160	May 31	2978	773	39	1066
Cunning, James. (See Teetor, Abe L., assignor.)						
Cunningham, Albert, Milwaukee, Wis. Carriage feed mechanism for saw-mills.....	357,582	Feb. 15	1228	323	38	669
Cunningham, Eleanor N., Toledo, Ohio. Shoe.....	373,054	Nov. 15	1170	313	41	704
Cunningham, Fieldon B., assignor of one-half to B. C. Hays, Burlington, Kans. End- gate.....	361,749	Apr. 26	1947	507	39	386
Cunningham, George A. (See Cunningham, J. Calder and G. A.)						
Cunningham, J. Calder and G. A., Washington, Kans. Low-binding harvester.....	368,910	Aug. 23	2262	{ 601 602 }	{ 40 40 }	{ 908 1490 }
Cunningham, J. Calder and G. A., Washington, Kans. Reel for harvesters.....	375,694	Dec. 27	2176	566	41	1490
Cunningham, James. (See Willett, Ora S., assignor.)						
Cunningham, Peter, Brightwater, Ark. Game-carrier.....	362,879	May 10	1148	308	39	694
Cunningham, Samuel M., assignor to himself and J. B. Peppin, Coyote, Cal. Side-hill gang-plow.....	372,403	Nov. 1	175	50	41	503
Cunningham, Samuel M., and J. B. Peppin, Coyote, Cal. Nut-lock.....	366,765	July 19	1399	374	40	281
Cunningham Son & Company, James. (See Lozier, E. Murray, assignor.)						
Cunningham, Thomas T., Osceola, Mo. Tongue-support.....	364,337	June 7	175	48	39	1122
Cuntz, Friedrich, Carlsbad, Bohemia, Austria-Hungary, assignor to Drainage Construction Company, Boston, Mass. Flush-tank.....	373,885	Nov. 29	2416	649	41	959
Cupler, Jacob C. (See Hood, Eunice, assignor.)						
Curlett, Lewis K., assignor to H. W. Holmes, Chicago, Ill. Apparatus for heating railway- cars.....	374,659	Dec. 13	699	184	41	1192
Curran, James, Portland, Oreg. Anti-induction device.....	371,555	Oct. 18	1157	301	41	244
Curran & Wolff. (See Phillips and Whaley, assignors.)						
Currens, Morton C. (See Leber and Currens.)						
Currey, Edward C., Chicago, Ill. Draft-equalizer.....	370,009	Sept. 13	1003	263	40	1231

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Currie, Alonzo T. (See Currie, John H. and A. T.)						
Currie, John H. and A. T., Faison, N. C. Repairing wagon-axles.....	356,031	Jan. 11	1047	275	38	212
Currie, Stanley C. C., London, county of Middlesex, England, assignor to Currie-Timmis Electric and Railway Supply Company, (limited,) Philadelphia, Pa. Railway switch	374,733	Dec. 13	804	211	41	1213
Currie-Timmis Electric and Railway Supply Company. (See Currie, Stanley C. C., assignor.)						
Currie, William W., Smith's Falls, Ontario, Canada. Duplex time-ticket	371,126	Oct. 4	560	143	41	110
Currier, Herbert L., assignor to F. B. Graves, Lynn, Mass. Boiler-tube cleaner.....	368,655	Aug. 23	1891	504	40	837
Currier, Herbert L., assignor to F. B. Graves, Lynn, Mass. Boiler-tube cleaner.....	373,926	Nov. 29	2471	664	41	969
Currier, James H. (See McIntire, Albert A., assignor.)						
Curry, Edmund A., Winchester, assignor of one-half to F. C. Parker, Woburn, Mass. Leather-dressing machine	356,191	Jan. 18	1281	338	38	259
Curry, Henry B., Troy, W. Va. Stock-poke	367,026	July 26	1737	468	40	352
Curry, James H., Wilkesburg, Pa. Gas-regulator	364,992	June 14	1141	299	39	1308
Curry, John, New Orleans, La., assignor of one-fourth to W. P. Sweatman, W. Rice, and B. Fagan, New York, N. Y. Equipment for theatrical stages	364,221	June 7	30	9	39	1094
Curry, John M., Framingham, Mass. Sewing-machine	369,694	Sept. 13	528	146	40	1145
Curry, Lewis M., assignor, by mesne assignments, to A. G. Pettibone and A. H. Mulliken, Chicago, Ill. Switch signal-light	359,062	Mar. 8	939	239	38	1083
Curtice, Jesse M., Louisville, Ky. Churn	366,157	July 5	551	148	40	104
Curtin, John, Elk Falls, Kans. Sectional horseshoe	374,293	Dec. 6	168	44	41	1079
Curtis, Andrew J., Monroe, Me. Machine for making dowels.....	358,965	Mar. 8	810	205	38	1059
Curtis, Charles, <i>et al.</i> (See Smith, Aaron F., assignor.)						
Curtis, Charles, assignor of one-third to J. W. Gilman, Minden, Nebr. Sulky-plow.....	361,210	Apr. 12	1191	302	39	225
Curtis, Charles G. (See Crocker and Curtis.)						
Curtis, Charles G. (See Wheeler and Curtis.)						
Curtis, Charles G., and F. B. Crocker, New York, N. Y., assignors to C. & C. Electric Motor Company, of New York. Electric-battery jar	358,019	Feb. 22	1847	{ 488 489 }	{ 38 38 }	789
Curtis, Charles G., S. S. Wheeler, and F. B. Crocker, New York, N. Y., assignors to C. & C. Electric Motor Company. Armature and process of and apparatus for forming the same.....	359,205	Mar. 8	1118	{ 291 292 }	{ 38 38 }	1117
Curtis, Charles H., Bluffton, Fla. Fruit-clipper	364,222	June 7	31	9	39	1094
Curtis, Henry C., Troy, N. Y. Making collars and cuffs	356,624	Jan. 25	1909	501	38	387
Curtis, Henry H. (See Richards, Frederick W., assignor.)						
Curtis, Henry H., North Attleborough, Mass. Button or stud	369,695	Sept. 13	530	147	40	1145
Curtis, John D., Worcester, Mass. Machine for manufacturing barb-wire mesh-fencing ..	364,754	June 14	774	{ 206 207 208 }	{ 39 39 39 }	1242
Curtis, Lyman T., Flint, Mich. Machine for making picket fencing	375,266	Dec. 20	1578	413	41	1369
Curtis, Nelson, Boston, Mass. Thermostatic steam-trap	363,731	May 24	2363	613	39	943
Curtis, Orville H. (See Thompson and Curtis.)						
Curtis, Robert W. (See Brown, George W., assignor.)						
Curtis, Theodore N., and E. W. Hatch, assignors of one-third to J. P. Turnbull, Boston, Mass. Draft-bung for beer-kegs, &c	361,618	Apr. 19	1752	454	39	343
Curtis, Walter S., West Randolph, Vt. Dental flask	374,585	Dec. 13	603	157	41	1172
Curtis, Warren, Corinth, N. Y. Wood-pulp machine	367,504	Aug. 2	222	64	40	494
Curtis, Winfield. (See Coughlin and Curtis.)						
Curtiss, Robert M., Brooklyn, N. Y. Electrical safety device for elevators. (Reissue)....	10,838	May 31	3045	795	39	1078
Curzon, Henry, London, England. Intercepting impurities contained in rain-water and filtering the same	356,192	Jan. 18	1283	239	38	260
Cushing, Charles F. (See Covell, Edward T., assignor.)						
Cushing, Ellen, San Francisco, Cal. Programme alarm-clock	357,373	Feb. 8	902	238	38	598
Cushing, George W., St. Paul, Minn. Reverse-gear for steam-engines	357,308	Feb. 8	825	215	38	583
Cushing, Nichols B., Jersey City, N. J. Brake for hoisting-engines	372,013	Oct. 25	1827	474	41	385
Cushing, Nichols B., Jersey City, N. J. Brake for hoisting-machines	375,343	Dec. 27	1684	443	41	1398
Cushing, William H., Plattsburgh, Nebr. Garment-supporting clasp	367,371	Aug. 2	24	6	40	455
Cushman, Abe L., Concord, N. H. Loose pulley	371,490	Oct. 11	1057	275	41	215
Cushman, Abe L., assignor to J. A. White, Concord, N. H. Dust-guard for car-axle boxes ..	357,656	Feb. 15	1340	353	38	689
Cushman, Adoniram J., assignor of five-sixths to C. S. Pullen, W. H. Blake, A. S. Garland, A. Gray, and H. C. Pullen, Monson, Me. Composition bath for treating slate or other porous stone	367,372	Aug. 2	24	.....	40	456
Cushman, Austin F., Hartford, Conn. Lathe-chuck	371,926	Oct. 25	1705	442	41	362
Cushman, Chloe P., <i>et al.</i> (See Cushman, George H., assignor.)						
Cushman, Francis A. (See Cushman, George F., assignor.)						
Cushman, Francis A., Plymouth, N. H. Boot or shoe counter forming machine	371,491	Oct. 11	1057	276	41	215
Cushman, George F., Barnet, Vt., assignor to himself and F. A. Cushman, Plymouth, N. H. Boot or shoe	374,890	Dec. 13	1027	269	41	1256
Cushman, George H., assignor to C. P. Cushman, Lynn, and Spaulding & Tewksbury, Boston, Mass. Paper-box machine	364,161	May 31	2979	774	39	1066
Cushman, Henry S., Milford, Mass. Whip-stock core	363,510	May 24	2043	531	39	882
Cusick, Allen R., Allendale, Ill. Combined latch and lock	369,045	Aug. 30	2459	652	40	955
Cussen, William J., assignor of two-thirds to M. Millhiser & Co., Richmond, Va. Tobacco-bag	355,640	Jan. 4	468	125	38	92
Cussen, William J., Richmond, Va., assignor of two-thirds to M. Millhiser & Co. Tobacco-bag	361,619	Apr. 19	1754	454	39	343
Cussen, William J., Henrico County, assignor of two-thirds to M. Millhiser & Co., Richmond, Va. Tobacco-bag	357,982	Feb. 15	1800	472	38	775
Cussen, William J., Henrico County, assignor of two-thirds to M. Millhiser & Co., Richmond, Va. Tobacco bag or wrapper	370,730	Sept. 27	2076	551	40	1446
Cusson, Japhet S., De Kalb, Ill. Rein-guard	362,430	May 3	501	141	39	572
Cusson, Japhet S., De Kalb, Ill. Harness-pad	362,431	May 3	501	141	39	572
Cutbirth, Lincoln H. (See Shaw, Cutbirth, and Platt.)						
Cutcheon & Johnson. (See Pray, John, assignor.)						
Cuthbert, Robert B., Magnolia Mines, S. C. Car-heater.....	374,522	Dec. 6	503	131	41	1143
Cuthbertson, John, assignor of one-half to A. J. Howe, Lowell, Mass. Can or pot for measuring milk, &c.....	366,380	July 12	860	231	40	170
Cutler, E. Waldo, Boston, Mass. Sleeping-car	366,381	July 12	861	231	40	170
Cutler, E. Waldo, Boston, Mass. Sleeping-car	366,382	July 12	861	231	40	170
Cutler, Fred H., Buffalo, N. Y. Portable swing	367,788	Aug. 9	668	{ 180 181 }	{ 40 40 }	585
Cutler, Fred H., Buffalo, N. Y. Desk attachment	367,789	Aug. 9	669	181	40	585
Cutler, Henry, assignor to H. W. Cutler, North Wilbraham, Mass. Automatic grain-weighing scales	375,267	Dec. 20	1579	{ 413 414 }	{ 41 41 }	1369
Cutler, Henry W. (See Cutler, Henry, assignor.)						
Cutler, James L. (See Wilkinson and Cutler.)						
Cutler, Robert J., New York, N. Y. Theatrical appliance	370,858	Oct. 4	158	43	41	31

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Cutshaw, George W., Bedford, Ky. Device for dressing the teeth of saws.....	356,059	Jan. 11	1087	285	38	219
Cutter, Frederick G., Chicopee, Mass. Acid-dispenser	366,934	July 19	1614	432	40	322
Cutting, Robert S. (See Lewis, Russell H., assignor.)						
Cutts, Charles D. (See Taylor and Cutts.)						
Cutts, Charles D., and E. E. Scates, Fort Fairfield, Me. Wrench	355,641	Jan. 4	469	125	38	92
D'Auria, Luigi, assignor of one-half to H. M. Robert, Philadelphia, Pa. Operating direct-acting steam pumping-engines	367,602	Aug. 2	359	102	40	520
D'Esté, Julian. (See Wilson, George T., assignor.)						
D'Lamatter, James H., Earlville, Ill. Cultivator	373,343	Nov. 15	1603	423	41	784
Daball, William V. (See Hope, John, Jr., assignor.)						
Daft, Leo, Plainfield, N. J. Electrical conductor	361,676	Apr. 26	1848	479	39	370
Daft, Leo, Plainfield, N. J. Electric locomotion	371,253	Oct. 11	738	{ 188 189 190 }	{ 41 41 41 }	{ 153 153 153 }
Daft, Leo, Plainfield, N. J. Method of and apparatus for starting electric motors	371,436	Oct. 11	994	258	41	202
Daft, Leo, Plainfield, N. J. Electric regulator for hydraulic-elevator systems	372,361	Nov. 1	114	35	41	492
Daggett & Clap. (See Dillon, Louis W., assignor.)						
Daggett, John C., Boston, assignor to C. H. Colburn, Milford, Mass. Automatic lamp-extinguisher	365,734	June 28	2257	588	39	1539
Daggett, John C., Boston, assignor of one-half to C. H. Colburn, Milford, Mass. Sewing-machine feed	373,391	Nov. 15	1685	447	41	799
Daggett, John C., Neponset, assignor to G. H. Wood & Co., Boston, Mass. Shank-stiffener for boots or shoes	367,505	Aug. 2	224	65	40	495
Dahl, Kristian G., Drammen, Norway. Preserving milk	364,579	June 7	531		39	1188
Dahl, Will P., Minneapolis, Minn. Gas-pliers	356,241	Jan. 18	1351	357	38	274
Dahms, Ludwig M. H. M., Copenhagen, Denmark. Instrument for re-dressing steel pens ..	371,451	Oct. 11	1011	263	41	206
Dailey, John, assignor to W. and W. M. Smith, Van Wert, Ohio. Draft-equalizer	364,487	June 7	398	108	39	1163
Dailey, John, and C. H. Noell, Van Wert, Ohio. Ruler for cutting glass	368,995	Aug. 30	2389	635	40	941
Dailey, Parley A., New York, N. Y. Figured fabric	358,146	Feb. 22	2041	537	38	823
Daily, Frank. (See Shanks and Daily.)						
Daimler, Gottlieb, Cannstadt, Württemberg, Germany. Apparatus for impregnating air with hydrocarbon vapor	355,594	Jan. 4	388	105	38	78
Daimler, Gottlieb, Cannstadt, Württemberg, Germany. Explosive-gas marine engine	361,931	Apr. 26	2210	574	39	435
Dake, Walter M., Nashville, Tenn. Wall-safe	368,877	Aug. 23	2213	588	40	899
Dake, William F., assignor of two-thirds to H. P. Pruim and T. Cairns, Grand Haven, Mich. Double reciprocating square-piston engine	363,368	May 24	1826	480	39	840
Dakin, James A. (See Bond and Dakin.)						
Dalby, Thomas, Watertown, Mass. Undershirt or vest	357,068	Feb. 1	460	{ 122 123 }	{ 38 38 }	{ 507 507 }
Dale, George L., New York, N. Y. Automatic egg-boiler	375,539	Dec. 27	1941	{ 507 508 }	{ 41 41 }	{ 1448 1448 }
Dale, James, Chicago, Ill. Combined ruling-machine and printing-press	365,972	July 5	305	80, 81	40	58
Dale, John C., Bennington, Kans. Cloth-measuring machine	375,268	Dec. 20	1581	414	41	1370
Dale, John H., assignor of one-half to E. D. Dougherty, Philadelphia, Pa. Grip for cable railways	364,488	June 7	399	{ 108 109 }	{ 39 39 }	{ 1163 1163 }
Dale, John H., assignor of one-half to E. D. Dougherty, Philadelphia, Pa. Tension device for cable railways	364,489	June 7	402	109	39	1164
Dale, John H., assignor of one-half to E. D. Dougherty, Philadelphia, Pa. Grip-carriage for cable railways	364,490	June 7	404	109	39	1164
Daley, Robert H., San Francisco, Cal. Window sash and frame	367,506	Aug. 2	225	65	40	495
Dallett & Co., Thomas H. (See Donaldson and Dallett, assignors.)						
Dallett, George A. (See Donaldson and Dallett.)						
Dally, Charles A., Moon, Pa., and H. K. Richardson, Detroit, Mich. Gas regulator and cut-off	374,779	Dec. 13	868	228	41	1226
Dalrymple, Milton J., Wakefield, Kans. Plow attachment	361,578	Apr. 19	1691	437	39	331
Dalton, Dan F., Waterbury, assignor to J. C. Hammond, Jr., Rockville, and T. E. King, Westport, Conn. Shoe-clasp	361,993	Apr. 26	2308	601	39	451
Dalton, John, Ashland, assignors of one-half to F. I. McKenna, Omaha, Nebr. Elevator ..	371,437	Oct. 11	995	259	41	202
Dalton, John C., Columbus, Ohio. Adjustable saw-tooth	361,142	Apr. 12	1083	274	39	206
Dalton, Patrick J., New York, N. Y. Sign	355,510	Jan. 4	278	74	38	56
Dalton, Thomas, assignor to R. Seifert, Chicago, Ill., and E. Aschermann, Milwaukee, Wis. Combined cigar-tip cutter and match-safe	368,706	Aug. 23	1975	525	40	853
Daly, John, Grinnell, Iowa. Railway-switch	372,255	Oct. 25	2205	565	41	454
Daly, John F., Philo, Ill. Grain-board for wagons	372,522	Nov. 1	343	95	41	535
Daly, Timothy G., Boston, Mass. Watch-guard	358,020	Feb. 22	1848	489	38	789
Dalzell, John H., Pittsburg, Pa. Underground electric cable	369,320	Sept. 6	19	5	40	1038
Dalzell, John H., Pittsburg, Pa. Manufacture of bunched electric cables	369,592	Sept. 6	382	106	40	1108
Dalzell, John H., Pittsburg, Pa. Bunched electric cable	369,593	Sept. 6	384	107	40	1108
Dalzell, John H., Pittsburg, Pa. Manufacture of diminishing electric cables	369,594	Sept. 6	384	107	40	1108
Dalzell, William C., South Egremont, Mass. Manufacture of axle-boxes from solid stock ..	359,136	Mar. 8	1032	268	38	1101
Dalziel, David, Langside, county of Renfrew, Scotland. Envelope or paper bag	359,137	Mar. 8	1032	268	38	1101
Dambach, Philip J., and J. S. Hannan, Shawnee, Ohio. Nut-lock	359,385	Mar. 15	1391	355	38	1173
Dame, John M., assignor of one-half to J. E. Wheeler, Lynn, Mass. Insole for boots or shoes ..	373,964	Nov. 29	2529	680	41	980
Damer, Susan, et al. (See Damer, William, assignor.)						
Damer, William, assignor to S. and W. A. Damer, Toronto, Ontario, Canada. Manufacture of boots or shoes	361,269	Apr. 19	1270	{ 324 325 326 }	{ 39 39 39 }	{ 253 253 253 }
Damer, William A., et al. (See Damer, William, assignor.)						
Damerell, Mark H., Ludlow, Mo. Cultivator	372,206	Oct. 25	2131	548	41	440
Damlos, Ferdinand, Sandusky, Ohio. Frame for pictures, mirrors, &c.	359,316	Mar. 15	1277	331	38	1153
Damlos, Ferdinand, Sandusky, Ohio. Picture-frame	366,715	July 19	1333	357	40	269
Damm, Fredrick C., Decatur, Ill., assignor to Cleveland Target Company, Cleveland, Ohio. Target-trap	368,911	Aug. 23	2265	602	40	909
Damm, Frederick C., assignor to Cleveland Target Company, Cleveland, Ohio. Target-trap ..	374,043	Nov. 29	2636	707	41	1002
Dammon, Franklin M., New Bedford, Mass. Plaque	356,454	Jan. 25	1660	435	38	340
Damon, Eugene A., Scituate, and J. N. Griswold, Salem, Mass. Machine-starting device ..	374,349	Dec. 6	257	68	41	1095
Damon, George L. (See Pillard, Oliver E., assignor.)						
Dana, Charles H., Jr., West Lebanon, N. H. Machine for stringing tags	356,101	Jan. 18	1163	{ 308 309 }	{ 38 38 }	{ 239 239 }
Dana, Charles H., West Lebanon, N. H. Box for toilet-paper	374,586	Dec. 13	604	157	41	1172
Dana, Charles H., West Lebanon, N. H. Metallic box-strapping	374,587	Dec. 13	605	157	41	1172
Dancel, Christian, New York, N. Y., assignor to Goodyear & McKay Sewing Machine Com-pany, Boston, Mass. Sole-sewing machine	366,935	July 19	1615	{ 432 433 434 }	{ 40 40 40 }	{ 322 322 322 }
Dancyger, Simon, Dayton, Ohio. Display-frame	363,369	May 24	1827	480	39	840

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Dancyger, Simon, Dayton, Ohio. Marking-tag.....	369,321	Sept. 6	20	5	40	1039
Dane, William J., Detroit, Mich. Paper-cleaning compound.....	362,942	May 17	1244		39	718
Danforth, Frederic, Gardiner, Me. Aligning-pole.....	355,303	Jan. 4	16	5	38	5
Danforth, Theodore T., Dunkirk, N. Y. Lace-fastening.....	359,433	Mar. 15	1457	372	38	1187
Dangler, David E. (See Ruppel and Dangler.)						
Dangler Stove and Manufacturing Company. (See Ruppel, Henry, assignor.)						
Dangler Stove and Manufacturing Company. (See Ruppel and Dangler, assignors.)						
Danheiser, Ike F., Chicago, Ill. Barrel-cover.....	366,650	July 19	1240	331	40	252
Daniel, Gustav, and M. Rubin, Philadelphia, Pa. Shirt.....	367,135	July 26	1896	513	40	382
Daniel, James H., Paris, Ky. Cutter-bar.....	362,822	May 10	1070	291	39	679
Daniels, Albert H., and A. B. Rowell, Manchester, N. H. Bill-holder.....	367,274	July 26	2096	566	40	420
Daniels, Coralinn, Franklin, Mass. Hat or bonnet and method of making the same.....	366,572	July 12	1122	300	40	224
Daniels, Cyrus D., Madison, Ohio. Combined fertilizer-distributor and seed-drill.....	362,943	May 17	1245	331	39	718
Daniels, Elijah H., Chicago, Ill. Stove-pipe shelf.....	363,809	May 31	2478	643	39	971
Daniels, Eugene O., Springfield, Ohio. Permutation-lock.....	359,350	Mar. 15	1325	344	38	1161
Daniels, Eugene O., Springfield, Ohio. Forming joints in sheet-metal tubes.....	360,663	Apr. 5	385	98	39	73
Daniels, Eugene O., Springfield, Ohio. Device for bending pipe.....	361,398	Apr. 19	1446	374	39	284
Daniels, Eugene O., Springfield, Ohio. Lightning-rod.....	362,064	May 3	17	5	39	476
Daniels, Eugene O., Springfield, Ohio. Device for reducing the ends of tubes.....	365,053	June 21	1235	325	39	1335
Daniels, Eugene O., Springfield, Ohio. Device for bending pipe.....	369,166	Aug. 30	2619	695	40	987
Daniels, Eugene O., Springfield, Ohio. Reducing the ends of pipes.....	375,050	Dec. 20	1284	335	41	1311
Daniels, Fred H. (See Washburn and Daniels.)						
Daniels, Fred H., Worcester, Mass. Rolling-mill.....	355,390	Jan. 4	128	35	38	27
Daniels, Fred H., Worcester, Mass. Mechanism for forming ingots, bars, rods, &c., from fluid metal.....	359,348	Mar. 15	1319	{ 342 } { 343 }	{ 38 }	{ 1160 }
Daniels, Fred H., Worcester, Mass. Apparatus for casting ingots, bars, &c.....	359,349	Mar. 15	1322	{ 343 } { 344 }	{ 38 }	{ 1161 }
Daniels, Fred H., Worcester, Mass. Apparatus for automatically coiling wire rods.....	366,383	July 12	862	{ 231 } { 232 }	{ 40 }	{ 170 }
Daniels, Fred H., Worcester, Mass. Mechanism for transferring coils of wire.....	366,384	July 12	864	232	40	171
Daniels, Fred H., Worcester, Mass. Guard-screen for rolling-mills.....	367,193	July 26	1970	533	40	396
Daniels, Fred H., Worcester, Mass. Furnace-charging mechanism.....	367,194	July 26	1971	533	40	397
Daniels, Fred H., Worcester, Mass. Mechanism for producing ingots, bars, &c., from fluid metal.....	368,817	Aug. 23	2131	565	40	882
Daniels, Fred H., Worcester, Mass. Apparatus for transferring the products of metal rolls.....	369,503	Sept. 6	254	71, 72	40	1082
Daniels, Fred H., Worcester, Mass. Machine for reeling wire rods.....	370,688	Sept. 27	2005	534	40	1433
Daniels, Fred H., Worcester, Mass. Reel.....	371,927	Oct. 25	1706	442	41	363
Daniels, Fred H., Worcester, Mass. Mechanism for coiling wire rods.....	373,965	Nov. 29	2529	680	41	980
Daniels, Granville W., et al., trustees. (See Fiske, Henry P., assignor.)						
Daniels, J. E. (See Day, Charley A. T., assignor.)						
Daniels, Lewis S. (See Hopson and Daniels.)						
Daniels, Nathan H. (See Pearson, William E., assignor.)						
Daniels, Reuben M., Appleton City, Mo. Washing-machine.....	360,421	Apr. 5	26	8	39	7
Daniels, William E., Somerville, Mass. Apparatus for cutting and grooving fabrics.....	357,583	Feb. 15	1229	323	38	670
Daniels, William N., Bridgeport, Conn., assignor to Bridgeport Brass Company, of Connecticut. Lamp-burner.....	372,745	Nov. 8	681	186	41	608
Danielson, John A., Calumet, Mich. Timber-bunk.....	363,608	May 24	2181	565	39	909
Danner, Frederick W., Ronald, Mich. Banjo.....	355,595	Jan. 4	390	105	38	78
Danner, John, Canton, Ohio. Book-support.....	355,511	Jan. 4	279	74	38	56
Danner, John, assignor to John Danner Manufacturing Company, Canton, Ohio. Counter-stool for stores.....	372,841	Nov. 8	851	227	41	636
Danner Manufacturing Company, John. (See Danner, John, assignor.)						
Dannhauer, Conrad, Augsburg, Bavaria, Germany. Safety-rein for harness.....	372,362	Nov. 1	116	35	41	493
Danos, Marie, New Iberia, La. Cultivator.....	360,281	Mar. 29	2823	717	38	1459
Danos, Marie, New Iberia, La. Cotton-scraper.....	362,365	May 3	405	112	39	553
Danskin, Thomas, Marshalltown, Iowa. Open and tile ditching machine.....	361,348	Apr. 19	1375	354	39	271
Danton, Ferdinand. (See Calone and Danton.)						
Danz, Jacob, Jr. (See Horne and Danz.)						
Danzenbaker, Francis, Claymont, Del. Bee-hive.....	375,269	Dec. 20	1582	{ 414 } { 415 }	{ 41 }	{ 1370 }
Darby, John E., and E. Blakeslee, Cleveland, Ohio. Impregnating chamois-skin with rouge.....	372,207	Oct. 25	2132	.....	41	440
Darby, William E., et al. (See Brown, Thomas J., assignor.)						
Dark, Thomas, Buffalo, N. Y. System for collecting, separating, and disinfecting sewage and drainage.....	363,810	May 31	2479	643	39	971
Darling, Alpheus and J., Petrolia, Pa. Governor for controlling the supply of fluids.....	357,763	Feb. 15	1508	393	38	719
Darling, Henry M., assignor to A. S. Davis, Seneca Falls, N. Y. Circular sawing machine.....	357,182	Feb. 8	655	170	38	551
Darling, Henry M., assignor to A. S. Davis, Seneca Falls, N. Y. Mortising-machine.....	369,924	Sept. 13	868	229	40	1207
Darling, Joseph. (See Darling, Alpheus and J.)						
Darling, Samuel, Providence, R. I. Inkstand.....	366,206	July 12	621	170	40	126
Darling, Samuel, Providence, R. I. Bevel and protractor.....	366,651	July 19	1240	332	40	252
Darling, Samuel, Providence, R. I. Try-square.....	366,652	July 19	1242	332	40	253
Darling, Samuel, Providence, R. I. Inkstand.....	367,136	July 26	1896	513	40	382
Darling, Samuel, Providence, R. I. Inkstand.....	368,326	Aug. 16	1434	380	40	740
Darling, Samuel, Providence, R. I. Inkstand.....	369,101	Aug. 30	2545	676	40	970
Darling, Samuel, Providence, R. I. Pen-cleaner.....	370,379	Sept. 27	1544	413	40	1349
Darling, Samuel, Providence, R. I. Pen-cleaner sponge-cup.....	370,380	Sept. 27	1545	414	40	1349
Darling, Samuel, Providence, R. I. Center-square.....	371,740	Oct. 18	1429	369	41	299
Darling, Samuel, Providence, R. I. Measuring-rule.....	371,741	Oct. 18	1430	369	41	300
Darling, William H., and L. Bock, Jr., assignors of one-third to G. P. Harrington, New York, N. Y. Electro-magnetic motor.....	357,374	Feb. 8	905	{ 238 } { 239 }	{ 38 }	{ 599 }
Darlington, Stephen D. (See Cortright and Darlington.)						
Darnall, James E., Washington, D. C. Manufacture of paper decorations.....	360,000	Mar. 29	2365	596	38	1375
Darnell, Calvin F., Indianapolis, Ind. Wire-fence lock and stretcher.....	373,392	Nov. 15	1686	447	41	800
Darnell, David E., Moorestown, N. J. Shutter-fastener.....	364,707	June 14	705	188	39	1229
Darr, Warren, Gardiner, Me. Lamp.....	365,582	June 28	2032	530	39	1498
Darrach, Francis L., Philadelphia, Pa. Hatchway for elevators.....	373,554	Nov. 22	1947	516	41	859
Darrach, Samuel A., Newark, N. J. Heating cars and vehicles.....	372,605	Nov. 1	472	126	41	559
Darragh, Charles, Jr., Heaton Mersey, county of Lancaster, England. Apparatus for securing lengths of flexible hose together.....	367,790	Aug. 9	670	181	40	586
Darragh, Robert L., New York, N. Y. Water-filter.....	356,242	Jan. 18	1352	357	38	274
Darrow, Channing E., Denver, Colo. File.....	358,006	Feb. 15	1832	482	38	780
Darrow & Co., F. L. (See Barrett, Frank W., assignor.)						
Darrow, Isabel. (See Segrove, David W., assignor.)						
Darrow, William M., assignor of one-half to M. Dedrick, Lee Centre, Mich. Cultivator-tooth.....	369,167	Aug. 30	2621	695	40	988

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Dart, Edward M., Providence, R. I. Stopper-cap for rubber water-bottles.....	362,206	May 3	205	61	39	513
Dashiell, William W., Bergen Point, N. J. Steam, air, or water heater.....	367,601	Aug. 2	357	101	40	520
Dashiell, William W., Bergen Point, N. J. Apparatus for generating heat.....	374,350	Dec. 6	258	69	41	1095
Dashiell, William W., Bergen Point, N. J. Apparatus for generating heat.....	374,351	Dec. 6	261	69	41	1096
Datesman, Robert, Milton, Pa. Fence-post.....	359,434	Mar. 15	1458	372	38	1187
Daudt, George A., Jersey City, N. J. Coil for heating evaporating-pans.....	364,908	June 14	1017	266	39	1286
Dauwalter, Conrad, Deep Water, Mo. Metallic seam.....	361,349	Apr. 19	1377	354	39	272
Davaine, Josias, Dysart, Iowa. Twine-holder alarm for harvesters.....	373,225	Nov. 15	1439	380	41	753
Daveggio, John B., <i>et al.</i> (See Travis, William H., assignor.)						
Davenport, Benjamin R., assignor, by mesne assignments, to Calumet Fastener Company, Chicago, Ill. Corset-fastener.....	367,373	Aug. 2	25	6	40	456
Davenport, Frank W., Providence, R. I. Outline-transfer tool.....	362,724	May 10	934	255	39	655
Davenport, Morris, Englishtown, N. J. Poultry-brooder.....	371,307	Oct. 11	811	207	41	167
Davenport, Samuel A., <i>et al.</i> (See Burnley, William, assignor.)						
Davenport, Samuel A., <i>et al.</i> (See Hitchcock, Charles A., assignor.)						
Davenport, Samuel A., <i>et al.</i> (See Hitchcock and Burnley, assignors.)						
Davey, Henry, Leeds, county of York, England. Steam-motor.....	357,468	Feb. 8	1043	276	38	625
David, August, San Francisco, Cal. Grape and apple crusher.....	358,597	Mar. 1	276	64, 65	38	954
Davidson, Edward, West Dedham, Mass. Horse-hitching device.....	356,305	Jan. 18	1444	379	38	291
Davidson, George, Paris, Ontario, Canada. Stop-motion mechanism for circular-knitting machines.....	355,596	Jan. 4	391	106	38	78
Davidson, Henry H., Northport, N. Y. Jar-clamp.....	372,897	Nov. 8	931	251	41	651
Davidson, John M., Columbus, Ohio. Die for forging shifting-rails.....	358,966	Mar. 8	811	205	38	1059
Davidson, Otis E., Nashville, Tenn. Envelope-machine.....	374,523	Dec. 6	505	{ 131 132 }	{ 41 41 }	1143
Davidson Rubber Company. (See Lockwood, Rhodes, assignor.)						
Davidson, William C., Grandville, Mich. Potato-planter.....	358,188	Feb. 22	2108	556	38	836
Davidson, William C., Grandville, Mich. Cultivator, duster, and digger.....	373,275	Nov. 15	1502	396	41	765
Davidson, William H. A., Boston, Mass. Puzzle-ring.....	367,896	Aug. 9	817	220	40	615
Davies, John R., Chicago, Ill. Feed-mill.....	365,583	June 28	2033	530	39	1498
Davies, John R., Chicago, Ill. Sand-molding machine.....	365,584	June 28	2035	531	39	1499
Davies, Lorenzo B., Columbus, Ohio. Device for holding and splicing ropes.....	372,970	Nov. 8	1036	277	41	670
Davies, Thomas A., New York, N. Y. Railway fish-plate.....	362,251	May 3	260	73	39	524
Davies, Thomas A., New York, N. Y. Railway-spike.....	362,252	May 3	262	73	39	524
Davies, Thomas A., New York, N. Y. Railway-spike and making the same.....	368,818	Aug. 23	2133	565	40	882
Davis, Abner L. (See Flater, Henry, assignor.)						
Davis, Abner L. (See Flater and Davis.)						
Davis, Adelbert S. (See Darling, Henry M., assignor.)						
Davis, Albert A., Lowell, assignor of three-fourths to G. Draper & Sons, Hopedale, and O. H. Moulton, Lowell, Mass. Bobbin.....	371,827	Oct. 18	1552	401	41	324
Davis, Albert T. L. (See Pepper, William H., assignor.)						
Davis, Alexander H. S., Washington, D. C. Trunk-lock.....	373,176	Nov. 15	1358	359	41	738
Davis, Andrew J., Hartford, Mich. Sash-holder.....	361,864	Apr. 26	2121	550	39	418
Davis, Andrew P., Dallas, Tex. Truss.....	372,014	Oct. 25	1829	474	41	385
Davis, Arthur W. S., assignor to F. Taylor, Lowell, Mass. Angle-hanger for mechanical-telephone lines.....	365,798	July 5	54	15	40	12
Davis, Augustus G., Baltimore, Md. Electric push-button.....	358,109	Feb. 22	1983	523	38	813
Davis, Calvin R., assignor to Kimberlin Manufacturing Company, Indianapolis, Ind. Wheel-cultivator.....	369,696	Sept. 13	531	147	40	1145
Davis, Charles, and N. Redmond, East Saginaw, Mich. Whiffletree.....	360,664	Apr. 5	386	98	39	73
Davis, Charles A., Washington, D. C. Railway-car.....	370,859	Oct. 4	160	43	41	32
Davis, Charles A., Washington, D. C. Railway-car.....	371,928	Oct. 25	1709	443	41	363
Davis, Charles C., Mercer, S. C. Churn.....	356,625	Jan. 25	1910	501	38	387
Davis, Charles E., Columbus, Ohio. Tilting-chair.....	357,183	Feb. 8	656	170	38	552
Davis, Charles E., Columbus, Ohio. Piano-stool.....	374,175	Dec. 6	20	5	41	1050
Davis, Charles E., Chicago, Ill. Seal-lock.....	362,823	May 10	1071	291	39	679
Davis, Charles E., assignor to J. W. Norris, Chicago, Ill. Seal-lock.....	371,037	Oct. 4	439	110	41	87
Davis, Corbin E., assignor of one-half to H. A. Ismond, St. Louis, Mo. Smoke-consuming furnace.....	374,457	Dec. 6	409	107	41	1124
Davis, Cornelius A., Somerset, Mass. Steam fog-horn.....	357,469	Feb. 8	1045	276	38	625
Davis, Daniel, Jr., Boston, Mass. Electrical contact-changer.....	365,585	June 28	2038	531	39	1499
Davis, Daniel, assignor to E. H. Davis, N. J. Thompson, and M. Bennett, Elmira, N. Y. Cash register and indicator.....	374,780	Dec. 13	869	{ 228 229 }	{ 41 41 }	1226
Davis, Daniel G. S., East Canaan, N. H. Bench-dog.....	364,491	June 7	406	110	39	1165
Davis, Elias H., <i>et al.</i> (See Williams and Whitney, assignors.)						
Davis, Enoch, <i>et al.</i> (See Davis, William G., assignor.)						
Davis, Etna H., <i>et al.</i> (See Davis, Daniel, assignor.)						
Davis, Ferdinand E., Englewood, and O. Aberle, Chicago, Ill., assignors to S. Oppenheimer, New York, N. Y. Machine for cleaning intestines.....	360,001	Mar. 29	2366	597	38	1375
Davis, Ferdinand E., Englewood, and O. Aberle, Chicago, Ill., assignors to S. Oppenheimer, New York, N. Y. Machine for cleaning intestines.....	363,370	May 24	1828	{ 480 481 }	{ 39 39 }	841
Davis, Francis M., Denver, Colo. Crushing and pulverizing mill.....	373,817	Nov. 29	2321	{ 622 623 }	{ 41 41 }	941
Davis, George W., Burnside, Pa. Wagon-jack.....	361,813	Apr. 26	2038	530	39	402
Davis, Gouverneur M., assignor of one-third to C. M. Fabrique, Waterbury, Conn. Elevator.....	363,121	May 17	1498	397	39	768
Davis, Greer W., assignor of one-half to J. H. Stotsenburg, New Albany, Ind. Apparatus for producing stage effects.....	359,243	Mar. 15	1181	308	38	1136
Davis, Henry A., Lowell, Mass. Machine for cleaning and separating cotton waste, &c.....	359,851	Mar. 22	2133	537	38	1325
Davis, Isaac P. (See Patterson and Davis.)						
Davis, James H., Danville, Ky. Car-coupling.....	362,253	May 3	262	74	39	524
Davis, James M., assignor of one-half to G. E. James, Prairie Grove, Ark. Planter.....	359,669	Mar. 22	1833	466	38	1272
Davis, James W., Staunton, Va. Dumping-car.....	374,588	Dec. 13	605	158	41	1172
Davis, John, Albany, N. Y. Sand-paper head.....	361,399	Apr. 19	1447	374	39	285
Davis, John, assignor to Oliver Brothers & Phillips, Pittsburg, Pa. Manufacture-of-angle-iron.....	369,277	Aug. 30	2760	{ 736 737 }	{ 40 40 }	1015
Davis, John A., Springfield, Ohio. Chamber-vessel.....	372,063	Oct. 25	1913	493	41	399
Davis, John B., Santa Rosa, Cal. Corn-popper.....	365,586	June 28	2039	532	39	1499
Davis, John H. (See Pattenger, Cyrus, assignor.)						
Davis, John J., Tioga, Pa. Coke-oven door.....	374,942	Dec. 20	1131	296	41	1284
Davis, John R., Sun Prairie, Wis. Doubletree-clip.....	365,735	June 28	2258	588	39	1539
Davis, John R., Jr., Neenah, Wis. Chop grader and purifier.....	372,015	Oct. 25	1831	{ 474 475 }	{ 41 41 }	385
Davis, John R., Jr., Neenah, Wis. Reducing grain to flour.....	372,016	Oct. 25	1834	475	41	386

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Davis, John S. (See Troy and Davis.)						
Davis, John S., Louisville, Ky. Gate	361,053	Apr. 12	949	240	39	180
Davis, John S., assignor of nine-tenths to Toledo Mower and Reaper Company, Toledo, Ohio. Harvester	368,280	Aug. 16	1381	{ 364 365 }	{ 40 }	729
Davis, John T. (See Eynon and Davis.)						
Davis, John Y., Union Springs, N. Y. Automatic car-brake	367,791	Aug. 9	671	181	40	586
Davis, Jonathan H., Natchez, Miss. Car-coupling	372,459	Nov. 1	260	71	41	519
Davis, Joseph H., Chillicothe, Mo. Sample show-case for wall-paper, &c	374,589	Dec. 13	606	158	41	1173
Davis, Joseph P., New York, N. Y. Underground system for electric wires	374,458	Dec. 6	413	{ 107 108 }	{ 41 }	1125
Davis, Leonard L. (See Bolen, Lawrence C., assignor.)						
Davis, Leonard L., Springfield, Mass. Hack-saw frame	371,438	Oct. 11	997	259	41	203
Davis, Lionel M. (See Simmons, Simon, assignor.)						
Davis, Mark, New York, N. Y. Cap	361,491	Apr. 19	1567	407	39	308
Davis, Micajah R., Pink Hill, Tex. Self-feeding cotton-press	365,799	July 5	55	16, 17	40	12
Davis, Miles L., Lancaster, Pa. Crematory	359,138	Mar. 8	1033	{ 268 269 }	{ 38 }	1102
Davis, Milton G. (See Sturtevant and Davis.)						
Davis, Moses M. (See Fitch, Lauren M., assignor.)						
Davis, Munn, Wahoo, Nebr. End-gate for wagons	363,609	May 24	2182	566	39	909
Davis, Myra A., Portland, Me. Dress-maker's guide	365,800	July 5	61	17	40	13
Davis, Nathan H., assignor of one-half to L. C. Gratz, Philadelphia, Pa. Car-spring	364,162	May 31	2981	774	39	1067
Davis, Nathan H., assignor of one-half to L. C. Gratz, Philadelphia, Pa. Car-spring	364,492	June 7	407	110	39	1165
Davis, Nelson W., Port Jefferson, N. Y. Rain-water cut-off and filter combined	375,270	Dec. 20	1585	416	41	1370
Davis, Orion L., Rochester, N. Y. Door-guard for elevator-wells	366,463	July 12	952	260	40	190
Davis, Reed R., Douglass, Kans. Washing-machine	368,383	Aug. 16	1505	401	40	755
Davis, Samuel, Mount Vernon, Ohio. Corn-planter and marker	357,470	Feb. 8	1045	{ 276 277 }	{ 38 }	625
Davis, Samuel, assignor to J. Harvey and M. Brugger, Las Vegas, N. Mex. Ter. Machine for washing wool	362,065	May 3	19	6	39	476
Davis, Sylvester B., Eureka, Cal. Hame-tug	356,102	Jan. 18	1166	309	38	239
Davis, Sylvester B., Eureka, Cal. Horse-collar	359,139	Mar. 8	1035	269	38	1102
Davis, Thomas, New York, N. Y. Device for stretching, drying, and bleaching fabrics	371,038	Oct. 4	441	111	41	87
Davis, Thomas J. (See Evans and Davis.)						
Davis, Walter, et al. (See Williams and Whitney, assignors.)						
Davis, Wilbur G., Cambridge, Mass. Bellows	367,744	Aug. 2	592	161	40	562
Davis, William G., Pittsburg, assignor of one-half to A. W. Campbell, Allegheny City, and E. Davis, Pittsburg, Pa. Pipe-coupling	359,500	Mar. 15	1557	398	38	1205
Davis, William H. H. (See Camp, Bushrod H., assignor.)						
Davis, William H. H., Oakfield, Mich. Apparatus for building cisterns	371,039	Oct. 4	442	111	41	88
Davis, William L., South Amboy, N. J. Dumping-car	369,102	Aug. 30	2546	676	40	971
Davis, William R., Jr., Youngstown, Ohio. Ladder	367,792	Aug. 9	673	182	40	586
Davis, William R., New York, N. Y., assignor of one-fourth to A. F. Hilyer, Washington, D. C. Game-table	362,611	May 10	769	212	39	623
Davis, William P. (See Buzzell, John F., assignor.)						
Davis, William P., Boston, Mass. Pivotal support for transoms, &c	375,051	Dec. 20	1285	335	41	1311
Davis, Wilson, and W. Casey, Southington, Conn. Die for forming stump-joints for carriage-bows	369,778	Sept. 13	634	171	40	1163
Davis, Winfield S. (See Stigenwalt, William H., assignor.)						
Davis, Zebulon, Cleveland, Ohio. Vapor-stove attachment	360,665	Apr. 5	387	98	39	73
Davis, Zebulon, Cleveland, Ohio. Vapor-stove	362,725	May 10	935	255	39	655
Davis, Zebulon, Cleveland, Ohio. Vapor-burner	371,040	Oct. 4	444	{ 111 112 }	{ 41 }	88
Davis, Zebulon, Cleveland, Ohio. Vapor-burner	371,041	Oct. 4	446	112	41	88
Davis, Zebulon, Cleveland, Ohio. Plumber's or tinner's furnace	374,398	Dec. 6	321	85	41	1107
Davison, George, Jr., Brooklyn, N. Y. Machine for printing oil-cloth, &c	369,925	Sept. 13	870	{ 229 230 231 }	{ 40 }	1207
Davison, George W., assignor to Rochester Machine Tool Works, Rochester, N. Y. Means for controlling the supply of atomized fuel	364,708	June 14	706	{ 188 189 }	{ 39 }	1229
Davison, Thomas A., Kellerville, Ill. Wheel	372,129	Oct. 25	2025	519	41	418
Davoll, Lewis F., Boyne Falls, Mich. Rotary engine	364,093	May 31	2875	745	39	1047
Davy, Charles, Sheffield, county of York, England. Ratchet-drill	365,587	June 28	2040	532	39	1499
Davy, John G., De Kalb, Ill. Necktie-fastener	363,212	May 17	1620	425	39	792
Davy, John W., Kingston, Ontario, Canada. Fence-post	369,779	Sept. 13	635	172	40	1163
Davy, William, Kenosha, Wis. Making ballast and paving material	371,042	Oct. 4	447	112	41	88
Daw, Hilder. (See Daw, Thomas G. and H.)						
Daw, Thomas G. and H., Sevenoaks, county of Kent, England. Apparatus for producing impressed and printed surfaces	362,496	May 10	600	{ 170 171 }	{ 39 }	594
Dawkins, Stephen J., Brooklyn, N. Y. Steam-fountain for wash-boilers	375,134	Dec. 20	1411	367	41	1335
Dawson, Charles, Peterborough, Ontario, Canada. Rotary engine	360,565	Apr. 5	253	63	39	49
Dawson, Charles, Peterborough, Ontario, Canada. Sand-molding machine	371,556	Oct. 18	1158	302	41	244
Dawson, Charles B., Angus, Iowa. Rock and coal drill	362,366	May 3	406	113	39	553
Dawson, Edward. (See Deeds and Dawson.)						
Dawson, Edward, assignor of one-fourth to H. L. Brevoort, Brooklyn, N. Y. Welt-rounding tool	355,758	Jan. 11	639	{ 166 167 }	{ 38 }	135
Dawson, Gilbreth, Rockville, Conn. Mechanism for reciprocating the tumblers of carding-machines	361,492	Apr. 19	1568	407	39	308
Dawson, Henry G. and W. R., Chicago, Ill. Fire-grate for fire-places	367,793	Aug. 9	674	182	40	586
Dawson, Henry H. (See Cope, Mason L., assignor.)						
Dawson, William, and E. J. Frost, Philadelphia, Pa. Dust-guard for car-axle boxes	368,281	Aug. 16	1384	365	40	730
Dawson, William R. (See Dawson, Henry G. and W. R.)						
Day, Charley A. T., assignor of one-half to J. E. Daniels, Morganfield, Ky. Sawdust-carrier	360,762	Apr. 5	516	133	39	97
Day, David E. (See McIntyre, Malcolm F., assignor.)						
Day, Lyman H., assignor to Bradley, Voorhees & Day Manufacturing Company, (limited,) New York, N. Y. Fastening stiffening-strips to garments	366,936	July 19	1620	434	40	323
Day, Oscar A. (See Ferguson, Robert G., assignor.)						
Dayton Manufacturing Company. (See Kirby, John, Jr., assignor.)						
Dayton, Melville E., Chicago, Ill. Air-pressure apparatus for vapor-stoves and other purposes	363,610	May 24	2183	566	39	909
Dayton, Oscar M., Chicago, Ill. Index	364,338	June 7	176	49	39	1122
De Arment, George B., et al. (See Pollard, Isaac G., assignor.)						
De Beaulieu, George, Toledo, Ohio. Railway-tie	365,169	June 21	1408	371	39	1366

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De Benardos, Nicholas, and S. Olszewski, St. Petersburg, Russia. Process of and apparatus for working metals by the direct application of the electric current.....	363,320	May 17	1762	{ 461 462 }	{ 39 }	819
De Bondini, Joseph, and A. Seefelder, Constantinople, Turkey. Wick-holding attachment for lamps.....	365,973	July 5	307	81	40	58
De Bondini, Pompée. (See Ede and De Bondini.)						
De Bravura, Michel. (See Loesner and De Bravura.)						
De Brock, William, Milwaukee, Wis. Pneumatic valve-operating mechanism for hydraulic elevators.....	367,794	Aug. 9	674	{ 182 183 }	{ 40 }	586
De Brynk, Anthony, St. Petersburg, Russia. Breech-loading ordnance.....	371,828	Oct. 18	1553	401	41	324
De Camp, Albert, Chattanooga, Tenn. Boiler-cleaner.....	359,501	Mar. 15	1558	398	38	1205
De Celles, Ernest, Southbridge, Mass. Eyeglasses.....	359,852	Mar. 22	2135	537	38	1325
De Colange, Leo. (See Ilyne-Berline, Solomon, assignor.)						
De Costa, Benjamin F., E. Childs, and F. D. Witherell, Cambridge, Mass.; said Childs and Witherell assignors to said De Costa. Cylinder printing-machine.....	367,795	Aug. 9	676	183	40	587
De Coster, Louis, Paris, France. Apparatus for cutting bevels, &c., on glass.....	373,768	Nov. 22	2247	602	41	918
De Courtenay, Henry W., Newton, Mass. Combination-wrench.....	370,048	Sept. 20	1065	282	40	1250
De Fauchaux d'Humy, Paul R., London, England. Galvanic battery.....	367,705	Aug. 2	522	143	40	549
De Forest, Lockwood. (See Baynes, John, assignor.)						
De Forest, Thomas B. (See Fowler, Thaddeus, assignor.)						
De Forest, Thomas B. (See Fowler and De Forest.)						
De Fremery, James L. (See Williams, James B., assignor.) (Reissue.)						
De Georges, Léonidas. (See Desgoffe and De Georges.)						
De Graff, James W., Plainfield, N. J., assignor to W. C. Howard, New York, N. Y. Packing and show box.....	365,245	June 21	1518	396	39	1386
De Graff, William L., Homer, assignor of one-half to W. B. Loveland, Grand Rapids, Mich. Rowing apparatus.....	367,338	July 26	2196	590	40	438
De Grain, Reinhold F., Washington, D. C. Hoisting and supporting device.....	357,185	Feb. 8	659	170	38	552
De Guerre, Frank H., San Francisco, Cal. Grate.....	374,176	Dec. 6	21	5	41	1050
De Guerre, Frank H., and W. W. De Lano, San Francisco, Cal. Grate.....	356,824	Feb. 1	111	31	38	444
De Guerre, Frank H., and W. W. De Lano, San Francisco, Cal. Reversible-sash window.....	369,236	Aug. 30	2705	719	40	1004
De Haven, David R., Spread Eagle, Pa. Wire-stretcher.....	356,869	Feb. 1	180	48	38	455
De Haven, John R., Cloverport, Ky. Device for stuffing mattresses.....	368,385	Aug. 16	1507	402	40	755
De Jean, Fred. E., Newburyport, Mass. Beer-pitcher.....	366,207	July 12	622	170	40	126
De La Vergne Refrigerating Machine Company. (See Meyer, George T., assignor.)						
De La Vergne Refrigerating Machine Company. (See Mitchell, Marcus L., assignor.)						
De Lamater, Cornelius H., et al. (See Raynal, Alfred H., assignor.)						
De Lamater, Cornelius H., et al. (See Rider, Thomas J., assignor.)						
De Lamater, William, et al. (See Raynal, Alfred H., assignor.)						
De Lamater, William, et al. (See Rider, Thomas J., assignor.)						
De Lambert, John, East Saginaw, Mich. Furnace-door operator.....	373,966	Nov. 29	2532	681	41	980
De Lano, Willie W. (See De Guerre and De Lano.)						
De Laski, Albert, Boston, Mass. Circular loom.....	361,994	Apr. 26	2308	{ 601 602 603 604 }	{ 39 }	451
De Laski, Albert, Lynn, Mass. Circular loom.....	375,135	Dec. 20	1412	{ 367 368 }	{ 41 }	1335
De Laval, Gustaf, Stockholm, Sweden. Motor for operating centrifugal machines.....	356,990	Feb. 1	344	91	38	486
De Laval, Gustaf, Stockholm, Sweden. Centrifugal apparatus for testing milk.....	365,120	June 21	1341	355	39	1353
De Laval, Gustaf, Stockholm, Sweden. Motor for churns.....	368,327	Aug. 16	1435	{ 380 381 }	{ 40 }	741
De Laval, Gustaf, Stockholm, Sweden. Apparatus for working centrifugal machines.....	368,328	Aug. 16	1436	381	40	741
De Laval, Gustaf, Stockholm, Sweden. Testing milk.....	369,841	Sept. 13	734	.....	40	1182
De Laval, Gustaf, Stockholm, Sweden. Centrifugal liquid-separator.....	372,788	Nov. 8	759	{ 204 205 }	{ 41 }	621
De Lill, Lewis, Parish, N. Y. Chair.....	368,520	Aug. 16	1712	457	40	794
De Lisle, Leon. (See Burnett and De Lisle.)						
De May, Eugene A., Richmond, Tex. Car-coupling.....	364,494	June 7	410	111	39	1166
De May, Eugene A., Richmond, Tex. Car-coupling.....	367,197	July 26	1977	534	40	398
De May, Eugene A., Richmond, Tex. Car-coupling.....	375,272	Dec. 20	1587	416	41	1371
De Mier Electric Train Signal Company. (See Tiffany and De Mier, assignors.)						
De Mier, John R. (See Tiffany and De Mier.)						
De Montaud, Charles B., Paris, France. Electric accumulator.....	356,390	Jan. 18	1562	411	38	313
De Montgelas, Rudolphe, et al. (See Frishmuth, William, assignor.)						
De Myers, David L., Pierce Station, Tenn. Medicine case or satchel.....	369,438	Sept. 6	176	51	40	1065
De Naeyer & Co. (See De Naeyer, Louis, assignor.)						
De Naeyer, Louis, Willebroek, Belgium. Sectional boiler.....	365,801	July 5	61	18	40	13
De Naeyer, Louis, assignor to De Naeyer & Co., Willebroek, Belgium. Heating feed-water.....	370,010	Sept. 13	1006	{ 264 265 }	{ 40 }	1231
De Nisi, Don A., Forestville, assignor of one-half to E. Barnard, Rome, N. Y. Checkrein-bar.....	375,477	Dec. 27	1863	486	41	1433
De Pauw, W. C. (See Bernard, Philippe, assignor.)						
De Pereira, Jerome, New York, N. Y. Furnace-grate.....	375,136	Dec. 20	1414	368	41	1335
De Quillfeldt, Charles, New York, N. Y. Bottle-stopper.....	355,642	Jan. 4	470	125	38	93
De Quillfeldt, Charles, New York, N. Y. Bottle-stopper.....	357,909	Feb. 15	1695	441	38	755
De Quillfeldt, Charles, New York, N. Y. Siphon-bottle.....	361,400	Apr. 19	1448	374	39	285
De Quillfeldt, Charles, New York, N. Y. Bottle-stopper extractor.....	369,046	Aug. 30	2460	652	40	955
De Raet, Eduard. (See Verbeeck and De Raet.)						
De Ribas, Louis A., Boston, Mass. Drop-shutter for cameras.....	359,715	Mar. 22	1904	483	38	1285
De Riesthal, Alphonse. (See Mahler, Isaac J., assignor.)						
De Rycke, J. Joseph, New York, N. Y. Water-closet for ships, &c.....	368,329	Aug. 16	1437	382	40	741
De Smedt, Edward J., Washington, D. C. Artificial pavement.....	375,273	Dec. 20	1589	417	41	1371
De Solla, Herbert S., Decatur, Ill. Collar-button.....	358,433	Mar. 1	13	4	38	905
De Voe, Amanda, Brooklyn, N. Y. Invalid-chair.....	360,764	Apr. 5	517	134	39	97
De Voe, George W. (See Burrell, De Voe, and Pennal.)						
De Voe, William. (See Janssen and De Voe.)						
De Witt, John, Layton, Ill. Draft-equalizer.....	367,275	July 26	2098	566	40	420
Deacon, Benjamin R., Montreal, Quebec, Canada. Steam and electric connection for railway-cars.....	372,363	Nov. 1	117	36	41	493
Deacon, Sidney R., Los Angeles, Cal. Means for securing a sash or screen in the window-frame.....	375,344	Dec. 27	1687	443	41	1398
Dealy, Paul K., Chicago, Ill. Game-card.....	357,184	Feb. 8	657	170	38	552
Dean, Carter B., Norborne, Mo. Car-mover.....	375,443	Dec. 27	1818	475	41	1424
Dean, Edward C., Washington, D. C. Anti-friction roller.....	365,506	June 28	1908	496	39	1474

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Dean, George B., assignor of one-half to J. Y. Burnett, Lamoille, Ill. Machine for cutting corn. (Reissue)	10,880	Nov. 8	1151	307	41	691
Dean, Levi F., New Milford, Pa. Bridle-bit	374,352	Dec. 6	263	70	41	1096
Dean, Thomas, Paterson, N. J. Combined window ventilator and shade	367,195	July 26	1975	534	40	398
Dean, William P. (See Martin, Orin F., assignor.)						
Dean, William W. (See Ramel and Dean.)						
Dear, Joseph A., Jersey City, N. J. Fastening for printing-plates upon cylindrical surfaces	368,757	Aug. 23	2050	{ 542 543 }	{ 40 }	867
Dearborn, Charles P. (See Gowell, Frederick W., assignor.)						
Dearborn, John A., Liberty, Mo. Gas-burner	362,497	May 10	605	171	39	595
Dearborn, Wyman, Boston, assignor to F. R. Hall, Brookline, Mass. Machine for cleaning cotton and wool waste	360,566	Apr. 5	254	63, 64	39	49
Dearing, Fountain F., Bellbuckle, Tenn. Clutch	370,860	Oct. 4	163	44	41	32
Dearstyne, Peter F., Oneonta, assignor of one-third to J. G. Zimmermann, Jr., West Troy, N. Y. Tobacco-cutting machine	360,797	Apr. 5	561	146	39	105
Dearth, Lester A., Laconia, N. H. Hand or jack plane	363,213	May 17	1620	425	39	792
Deasey, John, Fall River, Mass. Faucet	358,021	Feb. 22	1849	489	38	789
Deasey, John, assignor to H. Ogden, Fall River, Mass. Beer-faucet	374,781	Dec. 13	872	229	41	1226
Deatherage, John R. (See Durnil, Cecil M., assignor.)						
Debacher, Robert R., New York, N. Y. Clasp for pocket-books	370,122	Sept. 20	1178	312	40	1270
Debacher, Robert R., assignor to W. Schimper & Co., New York, N. Y. Frame-handle connection for hand-bags	364,909	June 14	1020	267	39	1286
Deblieux, Benjamin N., Bay St. Louis, Miss. Nut-lock	367,196	July 26	1976	534	40	398
Decanniere, Henry, and A. F. Harrison, Greeley, Kans. Preserving eggs	371,254	Oct. 11	740	.....	41	153
Dechent, Heinrich, New York, N. Y. Show-case for cutlery	362,207	May 3	206	61	39	513
Decker, Alexander C., Keokuk, Iowa. Hog-ring	371,674	Oct. 18	1326	343	41	277
Decker, Alexander C. and O. J.; said O. J. Decker assignor to J. and P. Ayres, Keokuk, Iowa. Bustle	374,660	Dec. 13	700	184	41	1192
Decker, Alonzo, Old Fort, Ohio, assignor of one-half to M. Wickert. Corn-husker	357,523	Feb. 8	1128	395	38	640
Decker, Daniel D., assignor to Decker Ladder Company, Brookfield, Mo. Fire-escape ladder	363,950	May 31	2676	{ 694 695 }	{ 39 }	1006
Decker, Frank A., Detroit, Mich. Sofa-bed	373,445	Nov. 22	1764	468	41	826
Decker, Fred E., Arnot, N. Y. Rotary engine	371,675	Oct. 18	1327	343	41	278
Decker, George W. (See Levy and Decker.)						
Decker Ladder Company. (See Decker, Daniel D., assignor.)						
Decker, Olive J. (See Decker, Alexander C. and O. J.)						
Decker, Peter J., Copake Iron Works, N. Y. Tool-holder	360,953	Apr. 12	801	206	39	154
Decker, Samuel W., Verdon, Nebr. Cultivator	362,575	May 10	711	198	39	613
Decker, William T., Lehigh Tannery, Pa. Mowing-machine cutter	356,574	Jan. 25	1830	479	38	371
Decortis, Adolphe. (See Berg and Decortis.)						
Decumbus Oliver H., Newark, N. J. Sight-protector for fire-arms	358,734	Mar. 1	462	113	38	990
Dederick, Ezra, Milwaukee, Wis. Car-starter	374,943	Dec. 20	1133	297	41	1284
Dedrick, M. (See Darrow, William M., assignor.)						
Deeble, John, assignor of one-half to J. B. Savage, Southington, Conn. Die for forming ox-shoes	359,961	Mar. 22	2301	578	38	1356
Deeds, John B., assignor of one-half to P. J. Kaufman, Terre Haute, Ind. Hydrocarbon-burner for steam-boilers	364,993	June 14	1142	299	39	1308
Deeds, John B., and E. Dawson, assignors to L. Shultz, Terre Haute, Ind. Piston or valve rod packing	370,934	Oct. 4	292	72	41	58
Deeley, Robert. (See Miller, Alexander, assignor.)						
Deely, Edmond T. (See Paul and Deely.)						
Deere & Company. (See Moore, Gilpin, assignor.)						
Deering & Company, William. (See Olin, William F., assignor.)						
Deering & Co., William. (See Spaulding, George H., assignor.)						
Deering, Michael, assignor to C. C. Bradley, Syracuse, N. Y. Power-hammer	355,512	Jan. 4	280	74, 75	38	56
Deering, Michael, assignor to C. C. Bradley, Syracuse, N. Y. Power-hammer	368,384	Aug. 16	1506	402	40	755
Deering, Michael, assignor to C. C. Bradley, Syracuse, N. Y. Cover for heating-forges	369,168	Aug. 30	2621	696	40	988
Deering, William. (See Spaulding, George H., assignor.)						
Deering, William. (See Steward and Dixon, assignors.)						
Deering, William, Louisville, Ky. Horse-power for gin-houses	375,271	Dec. 20	1586	416	41	1371
Deeter, Isaac. (See Fish and Deeter.)						
Deevy, Patrick, Dudley, Iowa. Wheeled scraper	364,493	June 7	408	{ 110 111 }	{ 39 }	1165
Degenhardt, Frederick E., Chicago, Ill. Terminal or distributing box	364,994	June 14	1143	299	39	1308
Degenhardt, Frederick E., Chicago, Ill., assignor to Standard Underground Cable Company, Pittsburg, Pa. Cable-hanger	368,136	Aug. 9	1151	306	40	678
Degge, Middleton D. (See Walsh, Richard P., assignor.)						
Degnan, John C., and C. A. Bennett, Middletown, N. Y. Pipe-wrench	361,579	Apr. 19	1692	437	39	331
Déharbe, Jules. (See Terme and Déharbe.)						
Deichmann, Hermann, Elizabeth, N. J. Scissors or shears	363,049	May 17	1399	370	39	748
Deighton, Richard, Shawnee Mound, Mo. Churn	367,603	Aug. 2	360	102	40	520
Deitchler, Henry, Minneola, Iowa. Combined cultivator and harrow	368,935	Aug. 30	2309	613	40	926
Deitsch, Charles, and C. G. Pfingsten, New York, N. Y. Frame for satchels, purses, bags, &c	368,878	Aug. 23	2214	589	40	899
Deitz, George A., Chambersburg, Pa. Seal-lock	363,371	May 24	1829	481	39	841
Deitz, Robert E. (See Betts, Lewis F., assignor.)						
Delafield, Clarence, Mobile, Ala. Pile or pier	374,944	Dec. 20	1135	297	41	1284
Delande, Adolphe, Lafayette, La. Horse-collar	356,989	Feb. 1	344	91	38	486
Delander, August J., Sheffield, Pa. Shoe-maker's measure	373,886	Nov. 29	2417	.....	41	959
Delano, George A., Abrams, Wis. Sliding mouth-piece for harmonicas	375,608	Dec. 27	2050	531	41	1466
Delano, John W., assignor of one-half to G. H. Clarke, Skowhegan, Me. Tool for clinching horseshoe-nails	365,974	July 5	308	81	40	58
Delano, Philip. (See Mendenhall, Carleton, assignor.)						
Delany, George W., et al. (See McGill, Edward K., assignor.)						
Delany, Patrick, Newburg, N. Y. Buoy	366,077	July 5	446	121	40	84
Delany, Patrick B., New York, N. Y. System of indicating time by electric lights	360,862	Apr. 12	664	174	39	131
Delany, Patrick B., New York, N. Y. Telegraphy	373,967	Nov. 29	2533	681	41	981
Delany, Patrick B., New York, N. Y. Telegraphy	373,968	Nov. 29	2536	682	41	981
Delassus, Ceran F., and A. Robbins, Grand Eddy, Mo. Metallic batten	360,763	Apr. 5	517	134	39	97
Delavan, Charles A. (See James and Delavan.)						
Delger, E. F. (See Thomas, Douglas, Smith, and Twing, assignors.)						
Delorieux, John. (See Toulouse and Delorieux.)						
Delory, Michael, assignor to W. W. White, Providence, R. I. Hoisting-bucket	369,842	Sept. 13	735	196	40	1182
Delvalle, Benjamin, New York, N. Y. Lock	367,963	Aug. 9	919	248	40	634

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Demarest, Dewitt C., Denver, Colo. Fountain-pen	361,493	Apr. 19	1569	407	39	308
Demarest, James T., Englewood, N. J. Pot-scraper	356,527	Jan. 25	1758	458	38	358
Demarest, John, assignor to J. L. Mott Iron Works, New York, N. Y. Stationary wash-basin	355,439	Jan. 4	187	50	38	38
Demarest, John, assignor to J. L. Mott Iron Works, New York, N. Y. Waste-pipe and valve for basins	358,147	Feb. 22	2042	537	38	823
Dement, Robert H., Hudson, Ill. Car-brake	366,818	July 19	1469	392	40	294
Deming, Edmund O., San Francisco, Cal. Device for disengaging scale-beam latches	365,170	June 21	1409	371	39	1366
Deming, Frank B., Salem, Ohio. Hub-boring machine	374,945	Dec. 20	1136	{ 297 298 }	{ 41 }	1284
Deming, Frank B., assignor to Silver & Deming Manufacturing Company, Salem, Ohio. Rotary pump	367,374	Aug. 2	26	7	40	456
Deming, William H., Brooklyn, N. Y. Lock-cock	359,714	Mar. 22	1903	483	38	1285
Dempsey, John A. (See Layman, Dempsey, and Coppinger.)						
Denanhouer, Peter. (See Meadowcroft and Denanhouer.)						
Denebeim, Abraham, Evansville, Ind. Cork-fastener	358,189	Feb. 22	2109	557	38	836
Denehy, Denis M., Acampo, Cal. Thill-coupling	368,282	Aug. 16	1385	365	40	730
Denison, Charles H., Springfield, Mass. Double-reservoir lamp	359,502	Mar. 15	1559	398	38	1205
Denison, Julian F., New Haven, Conn. Electric-arc lamp	363,611	May 24	2187	{ 566 567 568 }	{ 39 }	910
Denison, Russel A., Providence, R. I. Electrical subway	355,867	Jan. 11	804	211	38	163
Denithorne, William B., Phoenixville, Pa. Rope-clamp	361,932	Apr. 26	2212	574	39	436
Denlis, William F., Cottonwood, Cal. Baling-press	372,842	Nov. 8	852	227	41	636
Denney, Samuel L., assignor of one-half to H. B. Cochran, Lancaster, Pa. Car-axle	366,307	July 12	765	206	40	152
Denney, William H., Lancaster, Pa. Clamp or vise	357,524	Feb. 8	1128	295	38	641
Denning, Moses R. (See Wood, John P., assignor.)						
Dennis, Albert, Franklin, Tenn. Back-band hook	362,498	May 10	607	172	39	595
Dennis, Charles, and W. S. Clawson, Audubon, Iowa. Hay or hog rack	368,707	Aug. 23	1977	525	40	853
Dennis, Charles W., Toronto, Ontario, Canada. Wash-boiler fountain	359,010	Mar. 8	875	223	38	1070
Dennis, H. E. (See Lochbihler and Edloff, assignors.)						
Dennis, Henry C., Tyrone, Pa. Safety car-heater	371,178	Oct. 11	633	162	41	133
Dennis, James E., et al. (See Olson, John W., assignor.)						
Dennis, John B., Ottumwa, Iowa. Bank-register	375,609	Dec. 27	2051	531	41	1466
Dennis, Laban. (See Dennis, Thomas L., assignor.)						
Dennis, Solomon C., et al. (See Olson, John W., assignor.)						
Dennis, Thomas L., Somerville, assignor of one-half to L. Dennis, Newark, N. J. Steam-engine	358,598	Mar. 1	277	65	38	955
Dennison, William E. (See Edwards, Granville M., assignor.)						
Denniston, William H. (See Stewart, William T., assignor.)						
Denny Brothers Company. (See Mackay, William M., assignor.)						
Denny, Hervey B., Washington, D. C. Cylinder printing-machine	364,223	June 7	32	{ 9 10 11 }	{ 39 }	1094
Denny, John T., Reidsville, N. C. Bucket	366,653	July 19	1244	333	40	253
Denslow, William H., Ulster, Pa. Combined hot-air and steam heater	361,350	Apr. 19	1378	354	39	272
Densmore, Amos. (See Barron, Walter J., assignor.)						
Densmore, Edwin, Grand Rapids, Mich. Cement	358,338	Feb. 22	2297	.....	38	873
Densmore, James. (See Barron, Ernest R., assignor.)						
Dent, Louis A. (See Rhodes, Daniel, assignor.)						
Denton, James E., Hoboken, N. J. Stuffing-box	362,367	May 3	409	113	39	554
Depp, William E., Brookville, Pa. Apparatus for heating and ventilating railway-cars.	365,975	July 5	309	82	40	58
Depp, William E., Brookville, Pa. Cider or wine mill	365,976	July 5	310	82	40	59
Deprez, Marcel, and B. Abdank-Abakanowicz, Paris, France. Apparatus for transmitting and receiving electrical signals	372,404	Nov. 1	176	50	41	503
Depuy, Augustus B., Camden, N. J. Lightning-arrester	369,436	Sept. 6	172	50	40	1064
Deraismes, Hippolite A., Elizabeth, N. J. Baggage-check	370,455	Sept. 27	1654	441	40	1368
Derbohlaw, John, New York, N. Y. Machine for making tinsel thread	364,339	June 7	177	49, 50	39	1122
Derby & Co., Philander. (See Nichols, John, assignor.)						
Derby, Edwin C., Portland, Mich. Land-roller	374,117	Nov. 29	2749	739	41	1024
Derby, Samuel C., Ashley, Mich. Portable elevator	373,648	Nov. 22	2083	556	41	887
Derby, Scott B., Utica, Nebr. Scriber or marking-awl	366,308	July 12	767	206	40	153
Derfus, George. (See Kaeszmann, John P., assignor.)						
Derrick, Myron L., Boston, assignor to W. F. Brigham, trustee, Hudson, Mass. Gossamer rubber fabric	375,478	Dec. 27	1863	487	41	1433
Derrickx, Paul D., Detroit, Mich. Harness attachment	369,322	Sept. 6	21	6	40	1039
Dermitt, Simpson W. and W. V., Pittsburg, Pa. Electric valve-controller	372,208	Oct. 25	2134	548	41	440
Dermitt, Wesley V. (See Dermitt, Simpson W. and W. V.)						
Derr, Fuller S., Turbotville, Pa. Sweat-pad hook	364,808	June 14	874	230	39	1258
Derrick, Charles W. (See Loucks and Derrick.)						
Derrick, Morris B., Chicago, Ill. Car-heater	370,049	Sept. 20	1066	282	40	1250
Derrick, Thomas, assignor of one-half to W. E. Derrick, Lansingburg, New York. Thill-shackle	364,634	June 14	602	161	39	1209
Derrick, William E. (See Derrick, Thomas, assignor.)						
Derrick, William H. (See Raymond and Derrick.)						
Des Champs, Kate M., et al. (See Brown, Thomas H., assignor.)						
Descards, Michel, Pont-Saint-Pierre, Eure, France. Carding-machine	363,612	May 24	2192	568	39	911
Desgoffe, Auguste, and L. De Georges, Odessa, Russia. Screw-propeller	359,140	Mar. 8	1037	269	38	1102
Desiccated Coconut and Oil Manufacturing Company. (See Ashbourne, Alexander P., assignor.)						
Desjardins, Gedeon, Pembroke, Ontario, Canada. Log-sleigh	371,043	Oct. 4	449	113	41	89
Desmond, John, assignor to Penberthy Injector Company, Detroit, Mich. Steam-injector.	376,682	Jan. 25	1976	519	38	400
Desmond, John, assignor to Penberthy Injector Company, Detroit, Mich. Safety-valve	358,148	Feb. 22	2043	537	38	823
Desmond, John, assignor to Penberthy Injector Company, Detroit, Mich. Injector	372,209	Oct. 25	2135	548	41	440
Desobry, Edward, Plaquemine, La. Device for plows	372,364	Nov. 1	122	37	41	494
Desruelles, Lucien A. W., Paris, France. Galvanic battery	359,063	Mar. 8	940	{ 239 240 717 718 719 }	{ 38 }	1083
Desy, Louis A., Winnipeg, Manitoba, Canada. Ditching-machine	360,282	Mar. 29	2824	{ 717 718 719 }	{ 38 }	1460
Detamble, Henry, assignor of two-thirds to J. Sahles and M. Detamble, Minneapolis, Minn. Instrument for moistening envelopes	356,575	Jan. 25	1830	479	38	372
Detamble, Mathias, et al. (See Detamble, Henry, assignor.)						
Detrick, Jacob S., assignor to Matthai, Ingram & Co., Baltimore, Md. Machine for making wire handles	371,492	Oct. 11	1059	{ 276 277 }	{ 41 }	215

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Detrick, James, King's Ferry, N. Y. Harness-fastening loop	374,177	Dec. 6	22	5	41	1050
Detro, Clarence S., Ashley, Pa. Spark-arrester	371,179	Oct. 11	634	162	41	133
Detroit Casket Company. (See Blackford, William H., assignor.)						
Detroit Heating and Lighting Company. (See Owen, Russell B., assignor.)						
Detroit Motor Company. (See Slater, Henry B., assignor.)						
Detroit Safe Company. (See Anberlin, Theophilus A., assignor.)						
Detroit Stove Works. (See Rein, Bernard, assignor.)						
Detweiler, Daniel B., Berlin, Ontario, Canada. Harvester cutter-bar	365,588	June 28	2041	532	39	1500
Detwiler, John, Malvern, Pa. Heater-register box	372,130	Oct. 25	2026	519	41	418
Detwiler, Samuel G., Philadelphia, Pa. Title-holder for pictures	369,926	Sept. 13	874	231	40	1208
Deubert, Adam, Wächtersbach, Hesse, Prussia, Germany, assignor to H. Deubert, Brooklyn, N. Y. Sole for boots or shoes	369,323	Sept. 6	21	6	40	1039
Deubert, Henry. (See Deubert, Adam, assignor.)						
Deuss, Hugo O., Chicago, Ill., assignor to New Haven Clock Company, New Haven, Conn. Pendulum clock	373,727	Nov. 22	2189	585	41	908
Deutsch, A. S. (See Gates, Alfonso D., assignor.)						
Deutsch, Jacob. (See Schnitzler and Deutsch.)						
Deutsche Edison Gesellschaft für Angewandte Elektrizität. (See Pollak, Karl, assignor.)						
Deutsche Sprengstoff Actiengesellschaft. (See Bernstein, Richard, assignor.)						
Deutschel, Abraham. (See Ewert, Otto, assignor.)						
Deveney, Peter. (See Macrae and Tavener, assignors.)						
Devens, Elijah J., Coldwater, assignor of two-thirds to J. S. Dewey and C. E. Young, Detroit, Mich. Fence-post	361,001	Apr. 12	881	222	39	167
Deverall, Frederick J., Brooklyn, assignor to Deverall Manufacturing Company, New York, N. Y. Sheet-metal can	362,254	May 3	264	74	39	524
Deverall Manufacturing Company. (See Deverall, Frederick J., assignor.)						
Devereux, Oren C., Providence, R. I. Button	375,137	Dec. 20	1415	368	41	1335
Devereux, Walter B., Aspen, Colo. Apparatus for separating lead or base bullion from slag, mattes, and speiss	374,239	Dec. 6	96	24	41	1065
Devereux, Walter B., Aspen, Colo., assignor, by mesne assignments, of one-half to Orford Copper Company, of New Jersey. Apparatus for heating blast for blast-furnaces	374,240	Dec. 6	99	24	41	1066
Devine, Alvin, Rantoul, Ill. Check-rower for corn-planters	367,964	Aug. 9	921	249	40	634
Devine, William P., Newark, N. J. Button-machine	363,214	May 17	1621	426	39	792
Devitt, John J., and J. Coreoran, Yonkers, N. Y. Loom for weaving tufted fabrics	367,094	July 26	1839	{ 496 497 }	{ 40 40 }	372
Devlin & Co., Thomas. (See Koeberle, John M., assignor.)						
Devlin, Daniel, St. Louis, Mo. Cable-road curve	370,381	Sept. 27	1546	414	40	1349
Devore, Espy L., and E. O. Keck, Aurelia, Iowa. Draft-equalizer for harvesters	360,514	Apr. 5	181	44	39	35
Devore, James A., Hastings, Mich. Fence	359,595	Mar. 22	1741	442	38	1254
Devore, Levi M., Freeport, Ill., assignor of part to G. M. Waldorf and H. P. Kochsmeier. Wire-coil sheet	361,002	Apr. 12	882	222	39	167
Dew, John L., Free State, S. C. Fertilizer-distributor	375,052	Dec. 20	1286	335	41	1311
Dew, Martin, Cass City, Mich. Self-raking attachment for harvesters	373,055	Nov. 15	1170	313	41	704
Dew, Neil W., Charleston, Ill. Combined window-cleaner, mop-holder, &c.	366,309	July 12	767	207	40	153
Deweese, John W., Philadelphia, Pa. Feeding mechanism for sewing-machines	363,811	May 31	2480	644	39	971
Dewey, Frederic P., Washington, D. C. Manufacturing pigments from galena, &c.	372,898	Nov. 8	932	251	41	651
Dewey, Henry, Plainsburg, assignor to D. Best, San Leandro, Cal. Brake	367,965	Aug. 9	922	249	40	635
Dewey, Hosea B., Milwaukee, Wis. Hot-air duct for furnaces	369,169	Aug. 30	2622	696	40	988
Dewey, James S., <i>et al.</i> (See Devens, Elijah J., assignor.)						
Dewey, Mary, Chicago, Ill. Corset and dress protector	361,494	Apr. 19	1570	407	39	309
Dewing, Hubert L., Valley Centre, Kans. Hay stacker and loader	361,814	Apr. 26	2039	530	39	403
Dewing, James, and D. F. Bennett, San Francisco, Cal. Tool for cutting seats for insulator attachments for musical instruments	373,393	Nov. 15	1687	447	41	800
Dexter, Avelyn L., Whitewater, Wis. Refrigerator-building	371,180	Oct. 11	636	163	41	133
Dexter, Edward, <i>et al.</i> (See Smith, A. Butties, assignor.)						
Dexter, Henry B., assignor to Rhode Island Card-Board Company, Pawtucket, R. I. Card-board	372,971	Nov. 8	1037	278	41	670
Dexter, John W., <i>et al.</i> (See Smith, A. Butties, assignor.)						
Dexter, Talbot C., Des Moines, Iowa. Paper-folding attachment for printing-presses	369,780	Sept. 13	636	172	40	1164
Dey, Lewis R., Camden, N. J. Ice spur or creeper	368,330	Aug. 16	1440	382	40	742
Deymann, Henry, Toledo, Ohio. Thermotic valve-controlling device	373,969	Nov. 29	2538	682	41	982
Di Gaetano, Giacomo, New York, N. Y. Window-guard	373,970	Nov. 29	2539	682	41	982
Dial, Augustus A., Uvalde, Tex. Car-coupling	355,979	Jan. 11	984	258	38	200
Diall, Martin N., Terre Haute, Ind. Lamp-post	361,495	Apr. 19	1571	408	39	309
Diamond Electric Belt Company. (See Williams, John, assignor.)						
Diamond State Iron Company. (See Eynon and Davis, assignors.)						
Dick, Albert B., Chicago, Ill. Attachment for type-writing machines	357,271	Feb. 8	774	201	38	573
Dick, Hugh, Three Mile Bay, N. Y. Device for sharpening harrow-disks	374,782	Dec. 13	873	230	41	1227
Dick, Joseph, Canton, Ohio. Straw-cutter	356,751	Feb. 1	15	5	38	426
Dick, Julius M., Greensborough, N. C. Furnace attachment	361,933	Apr. 26	2213	575	39	436
Dickenson, Charles, Portland, Oreg., assignor of part to E. Montis, M. L. Wooster, and M. J. Crandall. Button-hole cutter	365,333	June 21	1639	428	39	1409
Dickerman, Amos, New Haven, Conn. Wad-winding machine	365,054	June 21	1237	{ 325 326 }	{ 39 39 }	1336
Dickerman, Amos, New Haven, Conn. Breech-loading shot-gun	369,437	Sept. 6	175	50	40	1065
Dickerman, Edwin H., <i>et al.</i> (See Root, Judson E., assignor.)						
Dickerson, Edward N., Jr., New York, N. Y. Automatic electric damper-regulator	361,270	Apr. 19	1272	326	39	253
Dickey, Elihu F., near Emmitt, Ark. Combined seed-planter and cultivator	367,507	Aug. 2	226	65	40	495
Dickey, Marion F., Yegua, Tex. Jar-fastener	360,515	Apr. 5	182	44	39	36
Dickieson, James W., Brooklyn, N. Y. Binding-file	357,375	Feb. 8	907	239	38	599
Dickinsen, George W. (See Mertsheimer, Frederick, assignor.)						
Dickinson, Ansel, <i>et al.</i> (See Strickler, Peter G., assignor.)						
Dickinson, Daniel A., St. Paul, Minn. Steam-boiler	356,103	Jan. 18	1167	309	38	239
Dickinson, George H. (See Armstrong, Edward, assignor.)						
Dickinson, James Q., Richmond, Va. Attachment for derricks and cranes	375,610	Dec. 27	2052	532	41	1467
Dickinson, Silas C., Wilton, Iowa. Electric striking device for clocks	363,215	May 17	1623	426	39	792
Dickson, Charles K., assignor of one-half to R. H. Floyd-Jones, St. Louis, Mo. Street-rail-way	361,211	Apr. 12	1193	{ 302 303 }	{ 39 39 }	226
Dickson, Gilbert J., assignor to Albany Hardware Manufacturing Company, Albany, N. Y. Mincing-knife	358,022	Feb. 22	1850	489	38	789
Dickson, John A., Pulaski, Tenn. Automatic brake for vehicles	360,954	Apr. 12	802	206	39	154
Dickson, Jonathan, Agosta, Ohio. Railway-rail joint	370,382	Sept. 27	1547	414	40	1349
Dickson, Samuel R., New York, N. Y. Process of and apparatus for the manufacture of gas	370,768	Oct. 4	22	6	41	7
Dickson, William R., Pittsburg, Pa. Grinding or polishing machine. (Reissue)	10,812	Mar. 1	600	148	38	1014

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Dieckmann, Georg F., assignor of one-half to P. Gmehlin, New York, N. Y. Electrical piano	368,195	Aug. 16	1242	{ 331 332 }	{ 40 }	703
Diefendorf, Abram, <i>et al.</i> (See Eckerson, David I., assignor.)						
Diehl, John. (See Crocker and Diehl.)						
Diehl, Julius A., and N. Weiss, Philadelphia, assignors of one-third to H. R. Schlouch and A. W. Haines, Allentown, Pa. Ice-creeper	360,666	Apr. 5	388	99	39	73
Diehl, Philip, Elizabeth, N. J. Electric motor	356,576	Jan. 25	1831	479	38	372
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Trimming attachment for sewing-machines	361,401	Apr. 19	1451	{ 374 375 }	{ 39 }	285
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Sewing-machine	374,661	Dec. 13	701	{ 184 185 }	{ 41 }	1193
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Sewing-machine	374,662	Dec. 13	705	185	41	1193
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Sewing-machine shuttle	375,695	Dec. 27	2177	566	41	1490
Diemer, John F., Elizabeth, N. J. Paper box	368,819	Aug. 23	2134	566	40	883
Diener, Carl. (See Mayrhofer, Carl A., assignor.)						
Dienier, J. F. (See Gonon, Paul E., assignor.)						
Dierdorff, Henry B., assignor to J. A. Jeffrey, Columbus, Ohio. Coal or rock drill support.	360,667	Apr. 5	390	99	39	73
Dietch, Simon. (See Menzenhauer, Friedrich, assignor.)						
Dieterich, Daniel P., <i>et al.</i> (See Powell, John B., assignor.)						
Dieterich, Daniel P., <i>et al.</i> (See Wrighton, William E., assignor.)						
Dietrich, Oscar, Chemnitz, Saxony, Germany. Clasp for binding or holding together newspapers, &c	372,405	Nov. 1	180	51	41	504
Dietz, Andrew E., Oakland, Cal. Snow-plow	365,055	June 21	1240	326	39	1336
Dietz Company, R. E. (See Betts, Charles L., assignor.)						
Dietz Company, R. E. (See Betts, Lewis F., assignor.)						
Dietz Company, R. E. (See Dietz, Frederick, assignor.)						
Dietz Company, R. E. (See Irwin, John H., assignor.)						
Dietz, Frederick, assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern	373,056	Nov. 15	1172	314	41	705
Dietz, Robert E. (See Betts, Lewis F., assignor.)						
Dietz, Robert E., New York, N. Y. Bale for baling wood for transportation	362,148	May 3	131	39	39	498
Dietze, August O., Syracuse, Neb. Car-coupling	359,776	Mar. 22	2009	508	38	1302
Dietzel, John W., Burgoon, Ohio. Roofing compound	368,936	Aug. 30	2310		40	926
Dietzman, Albert S., and G. Cressey; said Cressey assignor to H. R. Mitchell, Louisville, Ky. Magnetic register-connection for water-meters	369,595	Sept. 6	386	107	40	1108
Dieu, Alexandre, New York, N. Y. Speed-governor	367,604	Aug. 2	362	102	40	520
Digeon, Jules H., Paris, France. Apparatus for producing and washing carbonic-acid gas	375,611	Dec. 27	2054	533	41	1467
Diggles, Henry J., Fort Jones, Cal. Cart	363,991	May 31	2744	711	39	1020
Diggs, Jesse F., Baltimore, Md. Overalls	367,198	July 26	1978	535	40	399
Dignam, John S., London, Ontario, Canada. Caster	357,764	Feb. 15	1510	393	38	720
Dikeman, Charles W., Racine, Wis. Machine for turfing fabrics	362,368	May 3	410	113	39	554
Dill, J. Frank, Ridgway, Pa. Nut-lock	365,674	June 28	2161	563	39	1522
Dill, Joshua A., Frederick, Md. Lifting-jack	363,050	May 17	1400	370	39	748
Dill, Lorenzo, Union City, Ind. Looking-glass frame	355,597	Jan. 4	393	106	38	79
Dill, William H., Buffalo, Ind. Adjustable gate	366,937	July 19	1621	434	40	323
Dill, William H., and S. Downey, Buffalo, Ind. Window-slide	364,224	June 7	35	11	39	1095
Dillard, Arthur H., Lynchburg, Va. Seal-lock	367,375	Aug. 2	27	7	40	456
Dillenbeck, Arie V., Rochester, N. Y. Car brake and starter	370,935	Oct. 4	293	72	41	58
Diller, Abraham, and J. W. White, Brighton, Iowa. Car-coupling	374,783	Dec. 13	875	230	41	1227
Dulley, Sebastian C. (See Conrad, Charles E., assignor.)						
Dillon, James W., New Salem, Ill. Car-coupling	374,459	Dec. 6	417	108	41	1125
Dillon, Louis W., assignor to Daggett & Clap, Attleborough, Mass. Bracelet	358,339	Feb. 22	2298	606	38	874
Dillon, William H., Elkton, Ky. Handsaw	362,726	May 10	937	256	39	655
Dils, Thomas M., assignor of one-half to H. B. Hayford, Davenport, Iowa. Table-sink	356,401	Jan. 18	1579	415	38	317
Dilts, William, assignor of one-half to R. C. Smith, Cincinnati, Ohio. Step-ladder	359,716	Mar. 22	1905	483	38	1285
Dimes, William S., Woodgreen, county of Middlesex, England. Plate-rack	371,044	Oct. 4	450	113	41	89
Dimick, Frank R., Savona, N. Y. Stove-pipe fastening	363,122	May 17	1500	397	39	768
Dimitry, Charles P., New Orleans, La. Indelible ink	370,383	Sept. 27	1548		40	1349
Dimon, Frank S., Fort Scott, Kans. Clevis	355,980	Jan. 11	985	258	38	200
Dimond, Jacob, Pittsfield, Ill. Flood-gate	370,769	Oct. 4	27	6, 7	41	8
Dineen, George P., Tottenham, county of Middlesex, assignor of one-half A. Rowe, Peckham Rye, county of Surrey, England. Self-acting apparatus for working points and signals upon railways	363,613	May 24	2194	568	39	911
Dinges, McGahey & Co. (See Harbin, Eugene F., assignor.)						
Dingler, Louis E., Cincinnati, Ohio. Device for preventing clogging of catch-basins	359,244	Mar. 15	1182	308	38	1136
Dingman, Alexander, Jersey City, N. J. Game apparatus	362,432	May 3	502	142	39	572
Dinsberg, Carl, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Prussia, Germany. Manufacture of dye-stuffs or coloring-matters	366,078	July 5	447		40	84
Dinsmore, Alfred S. (See Fitzgerald, Walter S., assignor.)						
Dinsmore, Alfred S., Boston, Mass. Cloth-clamp for gigging-machines, &c	356,455	Jan. 25	1660	435	38	340
Dion, Léon O. (See Cummings and Dion.)						
Dion, Léon O., Natick, Mass. Rivet	357,118	Feb. 1	555	144	38	524
Dion, Léon O., Natick, Mass. Fastening for leather and other flexible materials	360,863	Apr. 12	665	174	39	131
Dion, Léon O., Natick, Mass. Uniting pieces of leather	375,479	Dec. 27	1864	487	41	1433
Dion, Louis. (See Dion, Peter, assignor.)						
Dion, Peter, assignor of one-half to L. Dion, South Bend, Ind. Wheel	366,464	July 12	954	260	40	190
Discho, William, Newark, N. J., assignor to Iron Clad Manufacturing Company, New York, N. Y. Sprinkling-pot	361,143	Apr. 12	1084	274	39	206
Disman, Joseph, Dayton, Ohio. Machine for feeding straw into steam-boilers used in paper-making	358,923	Mar. 8	757	189	38	1048
Disney, William. (See Rancevau, John, assignor.)						
Diss, Julius, Dusseldorf, Prussia, Germany. Fire-escape	368,075	Aug. 9	1073	286	40	663
Diss, Louis P., assignor to E. Remington & Sons, Ilion, N. Y. Breech-loading fire-arm	356,274	Jan. 18	1393	368	38	282
Diss, Louis P., assignor to E. Remington & Sons, Ilion, N. Y. Magazine fire-arm	356,275	Jan. 18	1395	369	38	283
Diss, Louis P., assignor to E. Remington & Sons, Ilion, N. Y. Packing-case for cartridges	356,276	Jan. 18	1399	{ 369 370 }	{ 38 }	283
Diss, Louis P., assignor to A. N. Russell and A. Brill, receivers, Ilion, N. Y. Magazine-gun	356,277	Jan. 18	1401	370	38	283
Diss, Louis P., Ilion, N. Y., assignor to A. Brill and A. N. Russell, receivers. Magazine-gun	367,199	July 26	1979	535	40	399
Disston, Hamilton, <i>et al.</i> (See Disston, Thomas S., assignor.)						
Disston, Horace C., <i>et al.</i> (See Disston, Thomas S., assignor.)						
Disston, Jacob S., <i>et al.</i> (See Disston, Thomas S., assignor.)						
Disston, Thomas S., assignor to H. H. C. W., and J. S. Disston, Philadelphia, Pa. Saw	367,605	Aug. 2	363	103	40	521

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Disston, William, <i>et al.</i> (See Disston, Thomas S., assignor.)						
Dittenhoefer, Adolph B. (See Carnachan, James S. G., assignor.)						
Dittly, George. (See Hammer, Conrad, assignor.)						
Dittmer, William H., Salt Lake City, Utah Ter. Door-operating device	375,138	Dec. 20	1415	369	41	1335
Ditto, David M., Amanda, Ohio. Attachment for cultivators	365,056	June 21	1242	327	39	1337
Dittrick, John, Perth, Ontario, Canada. Fire-escape	361,580	Apr. 19	1693	437	39	331
Diven, William H., Laurel, Md. Device for operating the ventilating-frames of hot-houses.	372,746	Nov. 8	682	187 188	41	608
Divine, Silas R., North Tarrytown, N. Y. Tablet for aerated beverages	362,727	May 10	938	256	39	656
Divine, Silas R., North Tarrytown, N. Y. Producing aerated waters	362,728	May 10	939	.....	39	656
Dix, Henry S., Plymouth, Mass. Machine for spinning hemp	373,818	Nov. 29	2324	623	41	941
Dix, Samuel C., Neponset, Ill. Wagon end-gate	357,069	Feb. 1	462	123	38	508
Dixey, John, C. Gronberg, and P. Hyden, Pullman, Ill. Drill-chuck	375,139	Dec. 20	1417	369	41	1336
Dixon, Alfred H., and W. J. Gradwell, Manchester, county of Lancaster, England. Stop-motion mechanism for doubling-frames, &c	358,257	Feb. 22	2190	577	38	851
Dixon, Ezra, Bristol, R. I. Saddle for top rolls of spinning-machines	369,504	Sept. 6	257	72	40	1083
Dixon, George E., Chicago, Ill. Siphon-pipe heater	356,456	Jan. 25	1661	435	38	340
Dixon, George E., Chicago, Ill. Hot closet	368,996	Aug. 30	2390	635	40	942
Dixon, Robert H. (See Steward and Dixon.)						
Dixon, Robert M., East Orange, N. J., assignor to Pintsch Lighting Company, New York, N. Y. Gas-lamp	373,057	Nov. 15	1174	314	41	705
Dixon, William, Sheffield, county of York, and S. Thompson, Trent, county of Stafford, assignors to T. and S. Thompson, Hanley, and T. M. Favell, Etruria, England. Piston for steam-engines	362,729	May 10	940	256	39	656
Doan, Daniel, Springville, Iowa. Horse hay-rake	358,735	Mar. 1	464	113	38	990
Doan, Nelson R., Rutland, Wis. Plow-coltter	356,306	Jan. 18	1445	379	38	291
Doan, Wallace. (See Doan, William S., assignor.)						
Doan, William S., assignor of one-half to W. Doan, Sacramento, Cal. Car-coupling	358,190	Feb. 22	2109	557	38	836
Doane, Valentine, Jr., Harwich, Mass. Child's carriage	365,298	June 21	1590	414	39	1400
Doane & Wellington Manufacturing Company. (See Flick, Otis C., assignor.)						
Doane, William H., Cincinnati, Ohio. Duplex planing-machine	365,507	June 28	1909	496 497	39	1474
Dobbins, Edwin A., New York, N. Y. Yielding support for bicycle and other lamps	362,612	May 10	771	212	39	624
Dobbs, Richard C., Guttenberg, N. J. Car-coupling	356,626	Jan. 25	1911	501	38	387
Dobbs, Charles J., Middlesbrough, county of York, England. Brick for paving	374,118	Nov. 29	2751	739	41	1024
Dobie, John C., Mora, county of Middlesex, Ontario, Canada. Portable post-driving machine.	358,023	Feb. 22	1851	490	38	789
Dobson & Barlow. (See Dobson and Bromiley, assignors.)						
Dobson, Benjamin A., Bolton, county of Lancaster, England. Machine for winding yarn ..	367,966	Aug. 9	923	249 250	40	635
Dobson, Benjamin A., and W. I. Bromiley, assignors to Dobson & Barlow, Bolton, county of Lancaster, England. Carding-engine	361,815	Apr. 26	2040	530 531	39	403
Dobson, Benjamin A., and W. I. Bromiley, assignors to Dobson & Barlow, Bolton, county of Lancaster, England. Carding-engine	363,732	May 34	2364	614	39	943
Dobson, James, <i>et al.</i> (See Pearson, Charles, assignor.)						
Dobson, James, Philadelphia, Pa. Woven pile fabric	373,553	Nov. 22	1946	516	41	859
Dobson, John, <i>et al.</i> (See Pearson, Charles, assignor.)						
Dobson, Robert F., Darlington, Wis. Pump	360,668	Apr. 5	391	99	39	74
Dobson, William, Bolton, county of Lancaster, England. Carding-engine	363,607	May 24	2180	565	39	909
Dockum, Thomas, Brooklyn, N. Y. Fence-guard	366,208	July 12	623	170	40	126
Dodd, Alvin H., Hudson, N. Y. Shutter-worker	360,146	Mar. 29	2621	663	38	1421
Dodd, Charles H., assignor to H. G. Farr, Boston, Mass. Machine for grooving shafts, axle-journals, &c	361,677	Apr. 26	1849	479 480	39	370
Dodd, Stephen G., Fort Assinaboine, Mont. Ter. Argand burner	367,606	Aug. 2	364	103	40	521
Dodd, William E. (See Campbell, Hill, and Dodd.)						
Dodds, Alexander, Grand Rapids, Mich. Dovetailing-machine	364,635	June 14	602	162	39	1209
Dodds, Edwin. (See Ismay and Dodds.)						
Dodge, Byron G., Lancaster, and T. Weaver, Harrisburg, Pa.; said Weaver assignor to said Dodge. Automatic cork blocking and finishing machine	374,891	Dec. 13	1028	269 270	41	1256
Dodge, Christopher G., Jr., assignor to himself, W. E. and F. A. Dodge, Baltimore, Md. Bung	358,387	Feb. 22	2369	630	38	886
Dodge, Frederick A., <i>et al.</i> (See Dodge, Christopher G., Jr., assignor)						
Dodge, George E. P. (See Olsen, Herman, assignor.)						
Dodge, James M., Philadelphia, Pa. Conveying-machine	357,145	Feb. 1	599	154	38	531
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Chain-wheel	355,513	Jan. 4	281	75	38	57
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Elevator-boat	355,514	Jan. 4	282	75	38	57
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Chain-wheel	358,258	Feb. 22	2192	577	38	852
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Conveyer-machine	358,652	Mar. 1	346	83	38	968
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Chain-wheel	358,771	Mar. 1	511	125	38	998
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Conveyer	360,341	Mar. 29	2896	738	38	1473
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Chain cable	361,865	Apr. 26	2122	550	39	418
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Chain cable	363,216	May 17	1626	427	39	793
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Conveyer	365,171	June 21	1410	371	39	1366
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Chain-wheel	366,819	July 10	1470	392	40	294
Dodge Manufacturing Company. (See Dodge and Philion, assignors.)						
Dodge Manufacturing Company. (See McNeal, Charles, assignor.)						
Dodge Manufacturing Company. (See McNeal, Charles M., assignor.)						
Dodge Manufacturing Company. (See Philion, George, assignor.)						
Dodge Manufacturing Company. (See Roy, Isidore V., assignor.)						
Dodge, Mortimer H., Cleveland, Ohio. Sea-quieting apparatus	362,255	May 3	265	74	39	524
Dodge, Philip T. (See Gordon, James F., assignor.)						
Dodge, Wallace H., Mishawaka, Ind. Device for transmitting power	359,596	Mar. 22	1742	443	38	1254
Dodge, Wallace H., Mishawaka, Ind. Device for transmitting power	359,597	Mar. 22	1742	443	38	1255
Dodge, Wallace H., Mishawaka, Ind. Wooden pulley	368,820	Aug. 23	2135	566	40	883
Dodge, Wallace H., and G. Philion, assignors to Dodge Manufacturing Company, Mishawaka, Ind. Lathe	359,853	Mar. 22	2135	538	38	1325

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Dodge, Walter E., Everett, assignor to National Tube Works Company, Boston, Mass. Injector.....	364,495	June 7	411	111	39	1166
Dodge, Wilbur A. (See Meady and Dodge.)						
Dodge, Willard A., Allegany County, N. Y. Seed-planter.....	360,765	Apr. 5	523	135	39	9
Dodge, William C., Washington, D. C. Towel-rack.....	363,511	May 24	2043	531	39	882
Dodge, William E., <i>et al.</i> (See Dodge, Christopher G., Jr., assignor.)						
Dodman, George S., Liverpool, county of Lancaster, England. Apparatus for raising sunken ships, &c.....	357,657	Feb. 15	1340	353	38	689
Dodman, George S., Liverpool, county of Lancaster, England. Apparatus for ventilating ships' holds.....	368,196	Aug. 16	1246	{ 332 333 }	{ 40 }	703
Dodson, Frank C. (See Dodson, Isaac, F. C., and J. E.)						
Dodson, Isaac, F. C., and J. E., Versailles, Mo. Twine and bag holder.....	356,752	Feb. 1	17	6	38	426
Dodson, Joseph E. (See Dodson, Isaac, F. C., and J. E.)						
Dodson, Wilson P., Philadelphia, Pa. Sash-fastener.....	368,997	Aug. 30	2391	635	40	942
Dodson, Wilson P., Philadelphia, Pa. Egg-beater.....	375,274	Dec. 20	1590	417	41	1371
Dodson, Wilson P., assignor of one-half to J. Little, Philadelphia, Pa. Attachment for ironing-tables.....	364,580	June 7	533	143	39	1188
Dodson, Wilson P., Philadelphia, assignor of one-half to A. H. Ege, Mechanicsburg, Pa. Connecting-rod for railway-switches.....	365,369	June 28	1697	441	39	1434
Doehring, Carl F. W., Leipsic, Germany. Flue-cleaner.....	357,309	Feb. 8	826	215	38	583
Doehring, Carl F. W., and C. G. Hoffman, Leipsic, Germany. Registering apparatus.....	361,678	Apr. 26	1851	480	39	370
Doelfel, John P., New York, N. Y. Mashing apparatus.....	366,573	July 12	1123	301	40	224
Doelfel, John P., and J. C. G. Hüpfel, New York, N. Y. Apparatus for mashing.....	368,076	Aug. 9	1074	286	40	663
Doelfel, John P., and F. Spiess, New York, N. Y. Roller-reducing mill.....	373,728	Nov. 22	2190	585	41	908
Doering, J. H. (See Haslup, William, assignor.)						
Doering, William H., Philadelphia, Pa. System of electric gas-lighting.....	375,414	Dec. 27	1774	465	41	1416
Doggett, Horace E. (See Cooper and Doggett.)						
Doggett, Horace E., assignor of one-half to E. M. Cooper, Philadelphia, Pa. Steam-motor.....	364,225	June 7	36	12	39	1095
Doggett, Lafayette J. (See Rundell and Doggett.)						
Doherty, Daniel E. (See Brown and Doherty.)						
Doherty, Patrick W., Boston, Mass. Ore-separator.....	367,095	July 26	1842	{ 497 498 }	{ 40 }	373
Doherty, Thomas S., Wilmington, Del. Ice-holder for refrigerators.....	356,753	Feb. 1	18	6	38	426
Dohm, John, Amboy, Mich. Drag-saw.....	363,733	May 24	2366	615	39	944
Dokey, David J., G. M., and E. W., Lee, Mich. Engine.....	366,079	July 5	448	121	40	84
Dokey, Emery W. (See Dokey, David J., G. M., and E. W.)						
Dokey, George M. (See Dokey, David J., G. M., and E. W.)						
Dolan, Bernard A., Keokuk, Iowa. Copying-press.....	373,769	Nov. 22	2248	602	41	918
Dolan, Edward J., assignor to W. Hacker, trustee, Philadelphia, Pa. Soldering-hopper.....	359,962	Mar. 22	2301	579	38	1357
Dolan, Edward J., assignor to W. Hacker, trustee, Philadelphia, Pa. Can-making machine.....	371,493	Oct. 11	1062	{ 277 278 279 }	{ 41 }	216
Dolan, Edward J., assignor to W. Hacker, trustee, Philadelphia, Pa. Machine for making tin cans.....	371,494	Oct. 11	1069	279	41	218
Dolan, Edward J., assignor to W. Hacker, trustee, Philadelphia, Pa. Can-assembling machine.....	375,053	Dec. 20	1287	{ 335 336 }	{ 41 }	1311
Dolan, John C., Pittsburg, Pa. Apparatus for feeding boiler compounds.....	361,679	Apr. 26	1852	480	39	370
Dolan, Thomas, <i>et al.</i> (See Cocker, Peter, assignor.)						
Dolbear, Amos E., Somerville, assignor of one-half to F. M. Holmes, Boston, Mass. Electric cable.....	373,394	Nov. 15	1688	448	41	800
Dole, William. (See Minnich, Peter C., assignor.)						
Dolse, John, <i>et al.</i> (See Marchant, David, assignor.)						
Dolge, Alfred, New York, N. Y. Press for forming piano-forte hammers.....	361,144	Apr. 12	1085	275	39	206
Dolge, Alfred, New York, N. Y. Manufacture of felt.....	363,217	May 17	1627	427	39	793
Dolge, Alfred, New York, N. Y. Piano-forte hammer.....	364,496	June 7	412	112	39	1166
Doll, Arnold, Cleveland, Ohio. Machine for mixing soap and other substances.....	356,991	Feb. 1	345	92	38	486
Doll, John H. (See Yarlot, Aaron J., assignor.)						
Dollens, Wood C., assignor of one-half to L. M. Martin, Dallas, Tex. Kitchen-cabinet.....	363,372	May 24	1830	481	39	841
Dolliver, Pillsbury C., Augusta, Me. Grate for stoves and furnaces.....	367,376	Aug. 2	28	7	40	456
Dolph, Alexander M., Cincinnati, Ohio. Belt-shifting device.....	372,523	Nov. 1	344	95	41	536
Dolson, Martin O., Wichita, Kans. Churn-dasher.....	360,209	Mar. 29	2711	685	38	1438
Dom, Alexander. (See Yeiser and Dom.)						
Dom, Alexander, Mount Healthy, Ohio. Book-holder.....	359,245	Mar. 15	1183	{ 308 309 }	{ 38 }	1136
Domalski, Oscar, Brooklyn, N. Y. Cocoanut-grater.....	355,598	Jan. 4	394	107	38	79
Domas, Dumas D., Rural, Ill. Hay-stacker.....	369,324	Sept. 6	22	6	40	1039
Domeier, Albert, and O. C. Hagemann, London, England, assignors to said Domeier and J. Glatz, Brooklyn, N. Y. Recovering glycerine from soap-lyes.....	371,127	Oct. 4	562	.....	41	111
Domes, Joseph. (See Bürklin, Victor, assignor.)						
Domestic Sewing Machine Company. (See Hebert, Joseph R., assignor.)						
Domestic Sewing Machine Company. (See Mack, William A., assignor.)						
Donahue, Bernard C. (See Chapman and Donahue.)						
Donahue, Bernard C., Portland, Me. Combined car head-rest and table.....	366,766	July 19	1400	375	40	282
Donahue, James H., Swanton, Vt. Buckle.....	363,992	May 31	2745	712	39	1020
Donahue, James H., assignor of two-thirds to W. H. Blake, 2d, and E. T. Bradley, Swanton, Vt. Buckle.....	369,237	Aug. 30	2706	719	40	1004
Donahue, Thomas, assignor to Branford Lock Works, Branford, Conn. Cylinder-lock.....	375,540	Dec. 27	1943	508	41	1449
Donald, Frank, Gainesville, Tex. Hay pitching and stacking machine.....	357,070	Feb. 1	463	123	38	508
Donaldson, John, St. Louis, Mo. Tree-box.....	361,351	Apr. 19	1379	355	39	272
Donaldson, John, Detroit, Mich., and G. A. Dallett, assignors to T. H. Dallett & Co., Philadelphia, Pa. Apparatus for transmitting power.....	361,680	Apr. 26	1854	481	39	371
Donaldson, John E., Montezuma, Ind. Chisel.....	361,145	Apr. 12	1086	275	39	206
Donaldson, John E., Montezuma, Ind. Roofing-tile.....	368,386	Aug. 16	1508	402	40	756
Donaldson, John E., Montezuma, Ind. Weather-boarding.....	368,387	Aug. 16	1510	402	40	756
Donaldson, John H., Gore, Ohio. Plow.....	373,131	Nov. 15	1280	341	41	725
Donaldson, Richard A., <i>et al.</i> (See Hipperling, William, assignor.)						
Donavin, George B., Delaware, Ohio. Knapsack-reservoir.....	357,272	Feb. 8	776	202	38	574
Donelson, Charles M., Salt Lake City, Utah Ter. Rotary churn.....	364,398	June 7	259	74	39	1138
Doney, Alfred. (See Lane and Doney.)						
Donlon, Thomas H., Vernon, N. Y. Adjustable axle-nut.....	356,710	Jan. 25	2013	528	38	407
Donnelly, Alex. G., New York, N. Y. Type-writing machine.....	363,452	May 24	1947	510	39	862
Donnelly, Alexander G., New York, N. Y. Type-writing machine.....	365,370	June 28	1699	442	39	1434
Donnelly, Alexander G., New York, N. Y. Type-writing machine.....	365,372	June 28	1709	{ 443 444 }	{ 39 }	1435

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Donnelly, Alexander G., New York, N. Y. Type-writing machine	365,373	June 28	1714	444	39	1436
Donnelly, Alexander G., New York, N. Y., and A. E. Ayer, Boston, Mass.; said Ayer assignor to said Donnelly. Type-writing machine	365,371	June 28	1706	443	39	1435
Donnelly, James L., Cincinnati, Ohio, assignor of one-half to E. O. Bayles, Shelbyville, Ky. Device for preventing incrustation	363,734	May 24	2367	615	39	944
Donner, Oscar W., Coosaw, S. C. Apparatus for washing rock, &c	366,820	July 19	1472	392	40	294
Donoho, James S., and J. W. Gates, Vacaville, Cal. Combined clod-crusher, harrow, and weed-cutter	374,178	Dec. 6	23	6	41	1051
Donovan, Cornelius A., Abilene, Tex. Vermin-exterminator and preparing the same	355,599	Jan. 4	394	.....	38	75
Donovan, Cornelius J., Boston, Mass. Ladle for molten metal	361,352	Apr. 19	1380	355	39	272
Donovan, Frank J. (See Smith, Daniel W., assignor.)						
Donovan, Jeremiah, assignor of one-half to T. Cornman, Sr., Carlisle, Pa. Railway-switch	369,633	Sept. 6	446	{ 124 125 }	{ 40 }	1119
Donovan, John T. and W. J., Springfield, Mass. Toilet-paper fixture	374,399	Dec. 6	322	85	41	1107
Donovan, Mathew, Toledo, Ohio. Opera or school chair	356,222	Jan. 18	1326	350	38	269
Donovan, Michael J., San Francisco, Cal. Metallic lath	372,131	Oct. 25	2027	519	41	419
Donovan, Richard E., F. Hazlett, and J. Johnston, Dublin, Ireland. Apparatus for blowing glass by means of compressed air	373,132	Nov. 15	1281	341	41	726
Donovan, William J. (See Donovan, John T. and W. J.)						
Doolan, Thomas, Chicago, Ill. Animal-trap	373,799	Nov. 22	2291	613	41	926
Dooley, Thomas, Toledo, Ohio. Incrustation preventive	369,325	Sept. 6	23	.....	40	1039
Dooley, Thomas B., Boston, Mass., assignor, by mesne assignments, to National Line and Cordage Machine Company, Portland, Me. Machine for making cord and rope	373,800	Nov. 22	2292	{ 613 614 }	{ 41 }	927
Dooling, James, Boston, Mass. Piston water-meter	374,241	Dec. 6	101	25	41	1066
Doolittle, George, assignor of one-half to T. B. Doolittle, Bridgeport, Conn. Machine for and method of making double-pointed wire nails	365,121	June 21	1342	355	39	1353
Doolittle, George W., assignor of one-fourth to Bacon & Harnsberger, Kansas City, Mo. Feed-water governor	355,440	Jan. 4	188	50	38	38
Doolittle, John H., Greystone, Conn. Making clasp-bodies	357,910	Feb. 15	1697	442	38	755
Doolittle, Thomas B. (See Doolittle, George, assignor.)						
Dopp, Daniel E., Santa Rosa, Cal. Piano-action	364,399	June 7	261	74	39	1138
Doran, Bernard S., Johnstown, Pa. Railway track and rail	367,607	Aug. 2	365	103	40	521
Doremus, Willard D., Washington, D. C. Lock	370,183	Sept. 20	1264	336	40	1288
Doremus, Willard D., Washington, D. C. Combined latch and lock	370,325	Sept. 20	1451	389	40	1323
Doremus, Willard D., Washington, D. C. Lock	374,179	Dec. 6	24	6	41	1051
Doremus, Willard D., Washington, D. C. Lock	374,784	Dec. 13	877	230	41	1227
Doremus, Willard D., Washington, D. C., assignor to F. H. Hurd, trustee, Toledo, Ohio. Station-indicator	361,146	Apr. 12	1088	{ 276 277 278 }	{ 39 }	206
Doriat, Josephine, New York, N. Y. Means for serving guests in restaurants	358,149	Feb. 22	2044	537	38	823
Doriot, Victor, assignor of one-half to W. Wallace, Bristol, Tenn. Safety attachment for bottles, &c	358,434	Mar. 1	13	4	38	905
Dorlan, Peter S. (See Hitt, Rensselaer, assignor.)						
Dorley, James A., Butler, N. J. Comb-graille	356,223	Jan. 18	1327	350	38	269
Dorman, John F. W., Baltimore, Md. Printing-press	373,649	Nov. 22	2084	{ 556 557 }	{ 41 }	887
Dormitzer, Anna, New York, N. Y. Ornamental step-ladder	361,212	Apr. 12	1193	303	39	226
Dorn, Rufus H., Rochester, N. Y. Lock-hinge	361,681	Apr. 26	1856	481	39	371
Dorrington, John W., assignor of one-half to L. G. Fay, Worcester, Mass. Curtain-hanger	364,497	June 7	413	112	39	1166
Dorsey, Henry O., Newark, Ohio. Flour-bolt	368,879	Aug. 23	2215	589	40	900
Dorwart, Benjamin K., New York, N. Y. Controllable delivery-mouth	372,899	Nov. 8	932	252	41	651
Dorwart, George, Philadelphia, Pa. Pegging-jack	372,132	Oct. 25	2028	{ 519 520 }	{ 41 }	419
Doscher, William C., New York, N. Y. Window-cornice	360,669	Apr. 5	392	99	39	74
Doscher, William C., New York, N. Y. Mantel-cabinet	369,103	Aug. 30	2548	676	40	971
Dosme-Chatain, Henri F., and A. Guibert, St. Amand, France. Machine for bending and upsetting metal	357,186	Feb. 8	660	171	38	552
Dost, Theodor H., Baltimore, Md. Dyeing brush-stock	368,880	Aug. 23	2216	.....	40	900
Dotson, Mansfield H., Baltimore, Md. Oyster-package	374,119	Nov. 29	2751	739	41	1024
Doty, James W., Pittsfield, Mass. Handle for chests, trunks, &c	372,900	Nov. 8	934	252	41	652
Doty, Peter B., Conneaut, Ohio. Hand guide and brake for sleds	364,910	June 14	1021	267	39	1286
Doty, Wallace A., Columbus, Ohio. Bustle	374,180	Dec. 6	25	6	41	1051
Doty, William B., assignor to G. Stiles and A. Moore, Chillicothe, Ohio. Nut-lock	362,880	May 10	1149	309	39	694
Doubleday, Henry H., Washington, D. C., assignor to J. A. Jeffrey, Columbus, Ohio. Drive-chain	371,929	Oct. 25	1712	443	41	364
Doubleday, William C., Lima, Ohio. Folding head-rest	366,080	July 5	449	121	40	85
Doubrava, Stefan, Prague, Bohemia, Austria-Hungary. Electric-arc light	366,938	July 19	1622	{ 434 435 }	{ 40 }	323
Doud, James, Mackinac Island, Mich. Latch	365,675	June 28	2162	564	39	1522
Doud, M. Fairchilds, Kansas City, Mo. Tablet-press	367,897	Aug. 9	818	220	40	615
Dougan, Francis M., Seneca, Kans. Combined cultivator, planter, and harrow	356,104	Jan. 18	1169	{ 309 310 }	{ 38 }	240
Dougan, John B., et al. (See Conner, Theodore M., assignor.)						
Dougherty, Edward B. (See Bryant, George B., assignor.)						
Dougherty, Edward D. (See Dale, John H., assignor.)						
Dougherty, Edward D., Philadelphia, Pa. Pulley for cable railways	364,498	June 7	414	112	39	1166
Dougherty, Edward D., Philadelphia, Pa. Conduit or bracket for cable railways	364,499	June 7	415	112	39	1167
Dougherty, Edward D., Philadelphia, Pa. Conduit for cable railways	364,500	June 7	417	113	39	1167
Dougherty, Edward D., Philadelphia, Pa. Car-brake	373,446	Nov. 22	1765	468	41	826
Dougherty, Tiberias, Philadelphia, Pa. Beer-pumping or air-pressure apparatus	360,422	Apr. 5	28	8	39	7
Dougherty, Tiberias, Philadelphia, Pa. Advertising-cabinet	361,995	Apr. 26	2317	604	39	452
Dougherty, Tiberias, assignor of one-half to G. H. Clarkson, Philadelphia, Pa. Kindergarten apparatus for teaching spelling, &c	366,821	July 19	1473	393	40	294
Dougherty, Tiberias, assignor of one-half to H. J. Bergman, Philadelphia, Pa. Billiard-table pocket	373,016	Nov. 8	1111	296	41	683
Doughman, Jacob J., Maud's, Ohio. Device for constructing wire-and-picket fences	362,824	May 10	1073	291	39	680
Doughten, John P., Wilmington, Del. Show-window	359,064	Mar. 8	942	240	38	1083
Doughty, Frank E., New York, N. Y. Stitch-ripper	370,456	Sept. 27	1656	441	40	1368
Douglas Axe Manufacturing Company. (See Bowers, John W., assignor.)						
Douglas, Charles H., assignor to Chicago Mortising Machine Company, Chicago, Ill. Chain-cutter for mortising-machines	363,123	May 17	1501	397	39	768
Douglas, Charles H., assignor, by mesne assignments, to Chicago Mortising Machine Company, Chicago, Ill. Endless-chain mortising-machine	374,946	Dec. 20	1137	298	41	1285
Douglas, Edward, assignor of one-half to J. Douglas, Cincinnati, Ohio. Folding square	363,321	May 17	1764	462	39	819

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Douglas, George. (See Douglas, John and G.)						
Douglas, George W., San Francisco, Cal. Cable railway.....	367,137	July 26	1897	513	40	382
Douglas, James, Jr. (See Hunt and Douglas.)						
Douglas, John. (See Douglas, Edward, assignor.)						
Douglas, John, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Cutting mechanism for button-hole sewing-machines.....	367,796	Aug. 9	678	184	40	584
Douglas, John and G., Cincinnati, Ohio. Flushing-tank for water-closets.....	369,843	Sept. 13	737	196	40	1183
Douglas, Nathan S. (See Thomas, Douglas, Smith, and Twing.)						
Douglas, Rufus H., Oelwein, Iowa. Trunk-strap.....	356,528	Jan. 25	1759	458	38	358
Douglass, Elias B., Cortland, Ind. Cow-milker.....	361,213	Apr. 12	1195	303	39	226
Douglass, Gayton A. (See Burnham, Sherburne W., assignor.)						
Douglass, William M. (See Matteson, Charles E., assignor.)						
Doulton, Henry L., and W. P. Rix, London, England. Production of ornamental pottery-ware.	366,310	July 12	768	207	40	153
Doutney, George, Brooklyn, N. Y. Reversible sample-envelope.....	358,967	Mar. 8	813	205	38	1059
Dove, John S. and John S., Jr., Philadelphia, Pa. Combined collar and necktie.....	357,071	Feb. 1	465	124	38	508
Dove, Lionel, Montague Buildings, West Road, West Ham, county of Essex, England. Pole-crab.....	366,385	July 12	866	232	40	171
Dover Stamping Company. (See Foss, L. Bacon, assignor.)						
Dow, Edward E., assignor of one-half to D. O. Clark, Haverhill, Mass. Shoe-nail.....	374,524	Dec. 6	508	132	41	1144
Dow, George B. N., assignor to C. H. Hutchinson and B. P. Cilley, Manchester, N. H. Screw.	366,158	July 5	552	149	40	104
Dow, George E., Rochester, N. Y. Steam-engine.....	358,435	Mar. 1	15	5	38	906
Dow, George E., San Francisco, Cal. Engine-governor.....	365,508	June 28	1911	{ 497 498 499 }	{ 39 39 39 }	1474
Dow, Joseph H., assignor of one-half to W. Chisholm, Cleveland, Ohio. Rotary engine....	360,766	Apr. 5	525	{ 135 136 137 }	{ 39 39 39 }	98
Dow, Lorenzo, Boston, Mass. Mechanism for bending metal.....	355,304	Jan. 4	17	5	38	5
Dow, Riou D., Hartford, Conn. Broom-hanger.....	365,802	July 5	63	18	40	14
Dowden, Ashford T., Prairie City, Iowa. Potato-harvesting machine.....	357,119	Feb. 1	555	144	38	524
Dowlin, Marshall R., North Adams, Mass. Halter-trimming.....	356,627	Jan. 25	1912	502	38	387
Dowling, Patrick, <i>et al.</i> (See Sharood, William H., assignor.)						
Dowling, Thomas W., Detroit, Mich. Wash-board.....	360,210	Mar. 29	2712	685	38	1438
Downer, Almer L., <i>et al.</i> (See Ferguson, George J., assignor.)						
Downer, William S., Coal Centre, assignor of two-thirds to J. Merrington and I. N. Finch, Pittsburg, Pa. Horse-detacher.....	362,881	May 10	1150	309	39	694
Downes, Moses H., Malden, assignor to Overman Wheel Company, Chicopee, and C. E. W. Woodward, Cambridge, Mass. Cyclometer.....	363,218	May 17	1629	428	39	793
Downes, Moses H., Malden, assignor to Overman Wheel Company, Chicopee, and C. E. W. Woodward, Cambridge, Mass. Mechanical movement for cyclometers.....	363,735	May 24	2368	615	39	944
Downes, Moses H., Malden, assignor to Overman Wheel Company, Chicopee, and C. E. W. Woodward, Cambridge, Mass. Cyclometer.....	363,993	May 31	2746	712	39	1021
Downey, Frank E., and J. M. Collier, Dudley, Ill. Motor for operating pumps.....	369,634	Sept. 6	449	125	40	1120
Downey, Julia A., Oberlin, Ohio. Toaster.....	373,276	Nov. 15	1504	397	41	766
Downey, Silas. (See Dill and Downey.)						
Downie, John G., Philadelphia, Pa. Compensating gear for road-engines.....	374,663	Dec. 13	708	186	41	1194
Downie, Joseph S. (See Ford, Charles S., assignor.)						
Downie, Robert M., New Brighton, Pa. Road-engine.....	374,664	Dec. 13	710	{ 186 187 188 }	{ 41 41 41 }	1194
Downing, James L., and S. R. Ward, Richmond, Ill. Thill-coupling.....	358,150	Feb. 22	2045	538	38	824
Downing, William H., Goodell, Pa. Sucker-rod adjuster.....	364,226	June 7	38	12	39	1095
Downing, William H., Goodell, Pa. Door-check.....	366,159	July 5	554	149	40	104
Downing, William W., and A. B. Upham, Peoria, Ill.; said Upham assignor to said Downing. Reflector for electric lights.....	360,002	Mar. 29	2368	598	38	1375
Downs, George A. (See Johnson, William R., assignor.)						
Downs, Jesse. (See Lee and Downs.)						
Doyle, Frank. (See Baldwin, Doyle, and Thomas.)						
Doyle, Frank, and G. W. Carson; said Doyle assignor to L. M. Thomas, Chicago, Ill. Furnace.	368,460	Aug. 16	1632	436	40	779
Doyle, James W., assignor of one-half to J. Willhite, Sheldon, Mo. Combined check-rower, grain-planter, and cultivator.....	374,460	Dec. 6	418	{ 108 109 110 }	{ 41 41 41 }	1125
Doyle, John H., Chicago, Ill. Sad-iron holder.....	372,064	Oct. 25	1914	493	41	399
Drainage Construction Company. (See Cuntz, Friedrich, assignor.)						
Drainage Construction Company. (See Waring, George E., Jr., assignor.)						
Drake, Caroline, Avon, Ill. Hospital-bedstead attachment.....	356,352	Jan. 18	1513	397	38	305
Drake, Charles S., San Francisco, Cal. Railway switch and signal operating mechanism..	370,531	Sept. 27	1770	{ 472 473 474 }	{ 40 40 40 }	1389
Drake, Clinton D. (See Phelps and Drake.)						
Drake, Francis M., Waldo, Ohio. Machine for scouring wheat.....	375,612	Dec. 27	2054	{ 533 534 535 }	{ 41 41 41 }	1467
Drake, John E. (See McLaughlin, Patrick, assignor.)						
Drake, Millard N. and W. B., Hanover, Mich. Draft-equalizer.....	359,065	Mar. 8	943	240	38	1083
Drake, N. Eugene, Ithaca, N. Y. Holder for paper bags and goods.....	362,256	May 3	266	74	39	525
Drake, Peter A., Shell Lake, Wis. Adjustable book-holder.....	368,388	Aug. 16	1512	403	40	756
Drake, Samuel M., and C. Linder, Kansas City, Mo. Corn-planter.....	374,242	Dec. 6	103	26	41	1066
Drake, Thomas, Huddersfield, county of York, England. Carbureting apparatus.....	370,936	Oct. 4	295	72	41	59
Drake, Walter L., Hampton, N. H. Bedstead.....	362,433	May 3	503	142	39	572
Drake, William B. (See Drake, Millard N. and W. B.)						
Draper, Alvin L., Ellsworth, Kans. Condensing duplex heater.....	367,706	Aug. 2	524	144	40	550
Draper, Daniel, Hastings-upon-Hudson, assignor to Draper Manufacturing Company, New York, N. Y. Recording-thermometer.....	369,170	Aug. 30	2623	{ 696 697 698 }	{ 40 40 40 }	988
Draper, Daniel, Hastings-upon-Hudson, assignor to Draper Manufacturing Company, New York, N. Y. Recording-thermometer.....	369,171	Aug. 30	2625	697	40	989
Draper, George, Hopedale, Mass. Spindle-support for spinning-machines.....	363,373	May 24	1831	482	39	841
Draper, Henry C., Oswego, Kans. Railway cross-tie.....	359,854	Mar. 22	2137	539	38	1326
Draper Manufacturing Company. (See Draper, Daniel, assignor.)						
Draper, Oscar M. (See Herring, Henry M., assignor.)						
Draper, Richard E., Cooke's Point, Tex. Expansion double-shovel corn and cotton planter.	358,436	Mar. 1	17	5	38	906
Draper & Sons, George. (See Carroll, William T., assignor.)						
Draper & Sons, George. (See Cumnock, Walter W., assignor.)						
Draper & Sons, George. (See Fay, Rimmon C., assignor.)						
Draper & Sons, George. (See Hinchliffe, William, assignor.)						
Draper & Sons, George. (See Montague, Francis D., assignor.)						
Draper & Sons, George. (See Northrop, James H., assignor.)						
Draper & Sons, George. (See Sullivan, John, assignor.)						
Draper & Sons, George. (See Walker, Samuel S., assignor.)						
Draper & Sons, George, <i>et al.</i> (See Davis, Albert A., assignor.)						
Draper & Sons, George, <i>et al.</i> (See Jenks, Alvin F., assignor.)						
Draper, Tronson, Petrolia, Ontario, Canada. Ball-turning lathe.....	363,994	May 31	2746	712	39	1021

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Draper, Tronson, Petrolia, Ontario, Canada. Ball-turning lathe	372,460	Nov. 1	261	72, 73	41	520
Draper, William F., Hopedale, Mass. Spindle-support for spinning-machines	362,944	May 17	1247	331	39	718
Draper, William F., Hopedale, Mass. Bearing for spinning-spindles	372,524	Nov. 1	346	95	41	536
Draughon, James N., Many, La. Churn	356,105	Jan. 18	1172	310	38	240
Draughon, James N., assignor of one-half to L. Vandegaer, Many, La. Try-square	371,878	Oct. 18	1640	423	41	340
Drawbaugh, Daniel, Eberly's Mill, assignor to E. W. Chellis, Harrisburg, Pa. Magnetic clock	367,898	Aug. 9	819	{ 220 221 }	{ 40 }	616
Drayer, Adam U., assignor to Wilson & McCallay, Middletown, Ohio. Combined tobacco wringer and spreader	365,803	July 5	64	19	40	14
Dredge, Edgar, London, England. Cloth-cutting machine	368,758	Aug. 23	2051	543	40	867
Dreher, Hiram J., Bloomingdale, N. J., assignor, by mesne assignments, to Dreher Manufacturing Company, of New York. Lubricating compound	366,386	July 12	867	.....	40	171
Dreher Manufacturing Company. (See Dreher, Hiram J., assignor.)						
Dresbach, Joseph. (See Smith and Dresbach.)						
Drescher, Luis, New York, N. Y. Galvanic cell	369,505	Sept. 6	259	72	40	1083
Dresdner, Isidor, Brooklyn, N. Y. Fur-plucking machine	367,200	July 26	1980	535	40	399
Dresser, Chester A., Southbridge, Mass. Saddle for the top rolls of spinning-machines	355,981	Jan. 11	986	259	38	200
Dressler, Charles E., New York, N. Y. School-desk	364,094	May 31	2876	746	39	1047
Dreux, Alfred A., Angers, France, assignor to J. B. Laurencot, New York, N. Y. Eye-glass-frame	358,191	Feb. 22	2111	557	38	836
Drew, John M., Washington, Tex. Cotton and cotton-seed press	364,995	June 14	1144	299	39	1308
Drew, Oscar F., Newburyport, Mass. Sole and heel edge blacker for boots or shoes	363,051	May 17	1401	370	39	748
Drew, Stephen C., Boston, Mass., assignor to American Telephone Improvement Company, of Maine. Means for preventing induction on electrical conductors	371,557	Oct. 18	1159	302	41	244
Drew, Walter J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	369,047	Aug. 30	2461	653	40	955
Drew, Walter J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	370,384	Sept. 27	1549	415	40	1349
Drewry, Sarah A., New York, N. Y. Abdominal supporter	363,812	May 31	2481	644	39	972
Dreyer, Richard, Long Island City, N. Y. Stopper and spout for oil-cans	356,529	Jan. 25	1759	458	38	358
Dreyfus, Henry, New York, N. Y. Initial stone	359,717	Mar. 22	1909	484	38	1286
Driggs, William H., assignor of one-half to S. Schroeder, Washington, D. C. Breech-load- ing ordnance	360,798	Apr. 5	562	{ 146 147 }	{ 39 }	106
Drill, Charles, St. Louis, Mo. Street-sweeping machine	365,374	June 28	1715	{ 444 445 }	{ 39 }	1436
Drinker, Charles M., Bloomsburg, Pa. Baggage-check	362,882	May 10	1151	309	39	694
Drinker, Charles M. and R. M., Bloomsburg, Pa. Seal-lock	371,255	Oct. 11	740	190	41	153
Drinker, Rodman M. (See Drinker, Charles M. and R. M.)						
Drinkhouse, Fredrick R., and E. Ziesche, San Francisco, Cal. Safety-lock for gas-burners ..	372,789	Nov. 8	761	205	41	621
Driver, Charles H. (See Thomas and Driver.)						
Drodzowski, Julius R., assignor of two-thirds to J. McCarter and J. M. Ormsbee, Erie, Pa. Coupling for steam-pipes	363,374	May 24	1833	482	39	842
Droeger, Bernhard, Allegheny, Pa. Measuring apparatus for oil	372,606	Nov. 1	472	127	41	559
Droit, Albert, Paris, France. Calcining apparatus	370,326	Sept. 20	1453	390	40	1323
Droit, Albert, Paris, France, assignor to Société Anonyme pour L'Étude et la Création de Soudières. Apparatus for the manufacture of soda by ammonia	369,104	Aug. 30	2548	677	40	971
Dronsfield, Joseph, and H. Gilbody, Providence, R. I. Stop-motion for doubling and wind- ing machines	366,465	July 12	956	261	40	190
Drosten, Frederick W., St. Louis, Mo. Paper-cutter	365,334	June 21	1641	428	39	1410
Drosten, Frederick W., St. Louis, Mo. Paper-cutter	366,939	July 19	1624	435	40	324
Drown, Otis E. (See Sayles and Drown.)						
Drown, William A. (See Plumb, Hiram, assignor.)						
Drueck, William R., assignor to N. Morris, Chicago, Ill. Can-stuffing machine	367,027	July 26	1737	468	40	353
Druecker, John. (See Druecker, Joseph and J.)						
Druecker, Joseph, Port Washington, Wis., and J. Druecker, Chicago, Ill. Burning lime ..	358,437	Mar. 1	18	6	38	906
Drum, George M., Los Alamos, Cal. Potato-masher	370,861	Oct. 4	165	44	41	33
Drumheller, Seran C., Sunbury, Pa. Roaster	363,813	May 31	2482	644	39	972
Drumheller, Seran C., Sunbury, Pa. Candle-lantern	370,770	Oct. 4	28	7	41	8
Drummond, Frank A., Winnipeg, Manitoba, Canada. Water-gage for steam-boilers	368,197	Aug. 16	1248	333	40	704
Dry Dock, East Broadway and Battery Railway Company. (See Garey, Caleb E., as- signor.)						
Dryden, Horace W., Mansfield, Mass. Envelope	355,305	Jan. 4	18	6	38	6
Dryden, William, Brooklyn, N. Y. Construction of buildings	372,461	Nov. 1	264	73	41	520
Dryden, William T., Argenta, Ark. Fare-box	364,164	May 31	2984	775	39	1067
Dryer, John H. and W., South Cedar, Kans. Combined car and vehicle rail	370,862	Oct. 4	166	44	41	33
Dryer, William. (See Dryer, John H. and W.)						
Dryfoos & Co., L. (See Hildt, August, assignor.)						
Du Bois, Benjamin F., New York, N. Y. Umbrella or cane head	368,077	Aug. 9	1075	287	40	663
Du Bois, John I., Marlborough, N. J. Apparatus for dropping fertilizer in rows	356,224	Jan. 18	1327	350	38	269
Du Bose, Wade H., Leon Junction, Tex. Harness attachment	369,983	Sept. 13	959	253	40	1223
Du Frames, Joseph, North Topeka, Kans. Combined tenoning and mortising machine ..	366,822	July 19	1475	393	40	294
Du Pont, Alfred V., Louisville, Ky., assignor to Johnson Steel Street Rail Company, of Kentucky. Rail-chair or tie-plate	369,279	Aug. 30	2761	737	40	1015
Du Pont, Alfred V., Louisville, Ky., assignor to Johnson Steel Street Rail Company, of Kentucky. Turn-table guide	374,525	Dec. 6	509	133	41	1144
Du Pont de Nemours & Co. (See Du Pont, Eugene, assignor.)						
Du Pont, Eugene, assignor to E. J. Du Pont de Nemours & Co., Wilmington, Del. Explo- sive compound	363,887	May 31	2578	.....	39	989
Du Shane, James, South Bend, Ind. Map-holder	355,643	Jan. 4	471	126	38	93
Dubé, Joseph. (See Dubé, Louis, assignor.)						
Dubé, Louis, assignor of one-half to J. Dubé, Albany, N. Y. Car-brake	371,930	Oct. 25	1714	444	41	364
Dubey, Edward A., assignor of one-fourth to J. Langan, Brooklyn, N. Y. Mail-box for newspapers	369,278	Aug. 30	2761	737	40	1015
Dubler, John B., Sr., Philadelphia, Pa. Lifting-jack	356,193	Jan. 18	1285	{ 339 340 }	{ 38 }	260
Dubois, Bélisaire, Bousignies, France. Constructing ornamental masonry columns	367,508	Aug. 2	227	66	40	495
Dubois, Louis E., Toronto, Ontario, Canada. Loom	367,028	July 26	1739	{ 468 469 }	{ 40 }	353
Duburn, Anthony M. (See Willits and Duburn.)						
Duby, Ambrose, Chelsea, assignor to T. C. Mulloy, Boston, Mass. Surcingle	367,707	Aug. 2	526	144	40	550
Duby, Joseph M., Medford, and J. L. Edmester, Chelsea, Mass. Electric bell-coupler for steam-railways	366,654	July 19	1245	333	40	253
Ducker, William M., New York, N. Y. Portable house	355,441	Jan. 4	189	50, 51	38	38
Dudderar, Daniel W., Taylorsville, Md. Tongue for mowers and reapers	364,581	June 7	533	143	39	1189
Duden, Hermann, New York, N. Y. Lace clipping or cutting apparatus	372,661	Nov. 8	560	153	41	585

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Dudgeon, Richard. (See Mechem, Oliver H., assignor.)						
Dudgeon, Richard H., New York, N. Y. Hydraulic jack. (Reissue)	10,865	Sept. 13	1036	272	40	1237
Dudley, Charles B., Altoona, Pa. Carburetor for air or gas	368,137	Aug. 9	1152	306	40	678
Dudley, Charles B., Altoona, Pa. Indicator for measuring the flow of liquids in conduits ..	375,054	Dec. 20	1288	336	41	1312
Dudley, Charles B., Altoona, Pa. Carburetor	375,055	Dec. 20	1290	{ 336 337 }	{ 41	1312
Dudley, Charles C., assignor of one-half to W. M. Welch, Maquoketa, Iowa. Eraser	357,146	Feb. 1	600	154	38	531
Dudley, Cory W., New York, N. Y. Package-holder	368,138	Aug. 9	1154	306	40	678
Dudley, George D. (See Sherwood and Dudley.)						
Dudley, James A., Delavan, Wis. Combined ladder-holder and scaffold-bracket	356,457	Jan. 25	1662	435	38	340
Dudley, Mathew H. (See McWane and Dudley.)						
Dudley, Myrick, Lynn, Mass., assignor of two-thirds to I. B. Hill, Tamworth, N. H. Rail- way-switch	374,827	Dec. 13	942	246	41	1240
Dudley, Plimmon H., New York, N. Y. Railway-spike	362,208	May 3	207	61	39	513
Dudley, Plimmon H., New York, N. Y. Means for recording the conditions of and mark- ing railway-tracks	367,708	Aug. 2	527	{ 144 145 146 147 148 149 }	{ 40	551
Dudley, Russell G., Newark, N. J. Combined step-ladder and chair	371,128	Oct. 4	564	143	41	110
Dudley, Warren R., Rock Creek, Ohio. Seeding attachment for grain-drills	369,506	Sept. 6	261	73	40	1083
Dudley, William L., Covington, Ky., assignor to American Iridium Company, Cincinnati, Ohio. Depositing iridium and product of the same	362,257	May 3	267	.....	39	525
Dudley, William W., Waltham, Mass. Tool for closing mainspring-barrels	357,584	Feb. 15	1231	324	38	670
Dufeu, Walter C., Chillicothe, Ohio. Towel or napkin holder	356,225	Jan. 18	1328	351	38	269
Dufeu, Walter C., and O. J. Fuchs, Chillicothe, Ohio. Door-alarm	366,655	July 19	1247	333	40	253
Duff, A. M., et al. (See Duff, John T., assignor.)						
Duff, John F., Murphysborough, Ill. Nut-lock	370,457	Sept. 27	1657	442	40	1369
Duff, John T., assignor to A. M. Duff, A. M. Negley, and H. G. Hugus, Pittsburg, Pa. Machine for rolling hollow ware	358,438	Mar. 1	19	6, 7	38	906
Duff, John T., assignor to A. M. Duff, A. M. Negley, and H. G. Hugus, Pittsburg, Pa. Rotary shears	358,439	Mar. 1	21	7	38	907
Duff, John T., assignor to A. M. Duff, A. M. Negley, and H. G. Hugus, Pittsburg, Pa. Ma- chine for grinding and polishing the interior of hollow ware	369,326	Sept. 6	23	6, 7	40	1039
Duff, John T., assignor to A. M. Duff, A. M. Negley, and H. G. Hugus, Pittsburg, Pa. Ma- chine for grinding and polishing the external surfaces of hollow ware	369,327	Sept. 6	25	7	40	1040
Duffee, James W., and C. Weston, Washington Court-House, Ohio. Station-indicator	365,736	June 28	2259	{ 588 589 }	{ 39	1539
Duffey, Hugh, and R. D. Woodford, Cortland, N. Y. Shifting sleigh-thill	367,377	Aug. 2	29	7, 8	40	456
Duffield, James, Workington, county of Cumberland, England. Securing rails and chairs to metallic sleepers and the ends of rails to each other	364,227	June 7	39	13	39	1096
Duffy, Edward, Pawtucket, R. I. Plumb-level	360,378	Mar. 29	2957	751	38	1482
Duffy, Thomas H., Chicago, Ill. Sewer-cleaner	356,754	Feb. 1	19	6	38	427
Dufrane, John L., Rockford, Ill. Pruning-shears	356,278	Jan. 18	1402	370	38	283
Dufresne, Peter, Springfield, Mass. Pipe-coupling for railway-cars	371,558	Oct. 18	1160	303	41	244
Dugar, Delano H., Cedartown, Ga. Steam-engine governor	357,585	Feb. 15	1231	324	38	670
Dugar, Delano H., Cedartown, Ga. Connecting-rod	372,843	Nov. 8	853	228	41	637
Dugard, George W., Brooklyn, N. Y. Basting meat, fowl, &c	358,968	Mar. 8	814	206	38	1059
Dugdale, Joseph T., St. Louis, Mo. Combined laundry and cook stove	370,249	Sept. 20	1347	360	40	1303
Duggan, John. (See Hayes, Charles, assignor.)						
Duisberg, Carl, Elberfeld, Germany. Blue coloring-matter from tetrazodiphenyl	357,273	Feb. 8	777	.....	38	574
Duisberg, Carl, Elberfeld, Germany. Red coloring-matter for dyeing by the action of tetrazo dyes with beta naphthylamine sulpho acid	357,274	Feb. 8	778	.....	38	574
Dulany, John T., Belton, Tex. Cotton-packer	358,805	Mar. 1	560	140	38	1008
Dumaresq, Philip K. (See Litchfield, Isaac W., assignor.)						
Dumas, Frank C., New York, N. Y. Spring-hinge	371,308	Oct. 11	813	208	41	167
Dumas, Frank C., New York, N. Y. Socket for fastening wire rope	356,106	Jan. 18	1173	310	38	240
Dumas, George E. (See French, Heman R., assignor.)						
Dumbeck, Gustav A., assignor of one-half to J. P. Gallagher, Erie, Pa. Swing	372,256	Oct. 25	2206	565	41	454
Dumler, Andrew P. (See Mulvaney, John J., Jr., assignor.)						
Dunbar, Addison, Campbell, Tex. Hypodermic syringe	361,750	Apr. 26	1948	507	39	386
Dunbar, Andy L. (See Wilkins, Alexander G., assignor.)						
Dunbar, Camillus, Glenwood, Mo. End-gage or siding-jack	360,088	Mar. 29	2516	640	38	1403
Dunbar, Francis B. (See Dunbar, George W., G. H., and F. B.) (Reissue.)						
Dunbar, George H. (See Dunbar, George W., G. H., and F. B.) (Reissue.)						
Dunbar, George W., deceased, (J. F. Emerson, administrator, Wakefield, Mass.,) G. H. and F. B. Dunbar, New Orleans, La.; said administrator assignor to said G. H. and F. B. Dunbar. Preserving shrimps in metal cans. (Reissue)	10,848	July 12	1225	327	40	242
Dunbar, John J. and H., Holloway, Gunnison, Colo. Bob-sled	366,716	July 19	1334	357	40	269
Dunbar, Junius H., Youngstown, Ohio. Nail-plate feeder	355,813	Jan. 11	716	{ 187 188 189 }	{ 38	148
Dunbar, William E., Waxahachie, Tex. Wire-stretcher	367,276	July 26	2099	567	40	421
Duncan, Albert E., assignor of one-half to J. J. Reed, Lyons, Iowa. Weather-strip	365,434	June 28	1798	468	39	1451
Duncan, Andrew J., Pittsburg, Pa. Machine for shearing and bending sheet metal	357,187	Feb. 8	663	{ 171 172 }	{ 38	553
Duncan, Arthur T., Clinton, Mo. Glazier's diamond-tool	365,057	June 21	1242	327	39	1337
Duncan, Emory F., Jasper, Mo. Rotating sulky-harrow	356,032	Jan. 11	1047	275	38	212
Duncan, John H., Syracuse, N. Y. Manufacture of salt	368,881	Aug. 23	2216	589	40	900
Duncan, John W., and C. L. Mills, Adrian, Mo. Cutting mechanism for harvesters	358,388	Feb. 22	2369	630	38	886
Duncan, Sylvester F., Chicago, Ill. Stay-piece and guard for wire fences	356,711	Jan. 25	2014	{ 528 529 }	{ 38	407
Duncan, Sylvester F., assignor to Wire Fence Improvement Company, Chicago, Ill. Clamping device	373,770	Nov. 22	2250	603	41	919
Duncan, Sylvester F., assignor to Wire Fence Improvement Company, Chicago, Ill. Stay piece or guard for wire fences	374,461	Dec. 6	419	109	41	1126
Duncan, William D., Boston, Mass. Safety jacket or hood for vessels	373,133	Nov. 15	1282	341	41	726
Duncan, William F., et al. (See Fullerton, George A., assignor.)						
Dunckhorst, Johann W., Davenport, Iowa. Washing-machine	368,521	Aug. 16	1713	457	40	794
Dunderdale, Ernest N. (See Wood and Dunderdale.)						
Dundore, Nathan T., H. H. Sechrist, and I. M. Brubaker, Dundore, Pa. Car-coupling	359,963	Mar. 22	2302	579	38	1357
Dungan, Charles B. (See Goewey, George, assignor.)						
Dunham, Charles L., Rahway, N. J., and G. N. Hoffman, New York, N. Y. Retouching- table	356,577	Jan. 25	1833	480	38	372

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Dunham & Co., Smith. (See Dunham, Edward H., assignor.)						
Dunham, Edward H., assignor to S. Dunham & Co., Providence, R. I. Ornamental chain..	364,582	June 7	535	143	39	1189
Dunham, Ella B., administratrix. (See Dunham, Henry.)						
Dunham, George B., Lynn, Mass. Feather-edging and channeling tool.....	375,345	Dec. 27	1688	{ 443 444 }	{ 41 }	1398
Dunham, Henry, deceased, Abington, E. B. Dunham administratrix and assignor to H. S. Jenkins, trustee, Boston, Mass. Boot or shoe nailing machine.....	356,107	Jan. 18	1173	311	38	241
Dunham, Henry, deceased, Abington, E. B. Dunham administratrix and assignor to H. S. Jenkins, trustee, Boston, Mass. Machine for making screw-nails.....	357,166	Feb. 1	628	162	38	537
Dunham, Joseph W., <i>et al.</i> (See Kisinger, George W., assignor.)						
Dunham, Joseph W., Englewood, F. P. and G. W. Kisinger, Danville, Ill. Dumping-wagon.	360,799	Apr. 5	566	{ 147 148 }	{ 39 }	106
Dunham, Mary J. (See Andersson, Carl B., assignor.)						
Dunham, Thomas H., Boston, Mass. Insulating and protecting electric cables	360,567	Apr. 5	256	64	39	50
Dunham, Thomas M., Ocean Grove, N. J., and E. S. Burnham, Buffalo, N. Y. Inhaler....	361,402	Apr. 19	1452	375	39	285
Dunham, Warren, Igo, Cal. Balanced pulley for cable railways.....	362,258	May 3	268	75	39	525
Dunham, Warren, Igo, Cal. Depression-pulley	364,400	June 7	263	74	39	1139
Dunham, Warren, Igo, Cal. Cable-grip	364,709	June 14	706	189	39	1230
Dunham, Warren, Igo, Cal. Cable-railway channel	375,480	Dec. 27	1865	487	41	1433
Dunkin, James, Bridgeport, W. Va. Horse-rake	359,534	Mar. 15	1612	413	38	1215
Dunkin, James, Bridgeport, W. Va. Check-row planter.....	371,879	Oct. 18	1641	{ 423 424 }	{ 41 }	341
Dunkle, William, Linden, Ind. Corn-planter.....	369,507	Sept. 6	262	73	40	1084
Dunklee, E. Lanson, Wyalusing, Pa. Thill-coupling	359,011	Mar. 8	876	223	38	1070
Dunklee, E. Lanson, Wyalusing, Pa. Furniture-pad	363,995	May 31	2748	713	39	1021
Dunlap, John S., Peoria, Ill. Store-stool	358,024	Feb. 22	1852	490	38	789
Dunlap, John S., Peoria, Ill. Counter	358,025	Feb. 22	1853	490	38	790
Dunlap, William R., Cincinnati, Ohio. Grain separator and cleaner	374,947	Dec. 20	1142	299	41	1285
Dunlap, Wilson W., Oskaloosa, Iowa. Electric belt	363,886	May 31	2577	670	39	989
Dunlop, Allan, Lyons, and A. Baley, Dorrance, Kans. Washing-machine	360,003	Mar. 29	2369	598	38	1375
Dunn, Alfred M., Pleasant Hill, Mo. Churn	367,797	Aug. 9	680	184	40	587
Dunn, Denis, Philadelphia, Pa., assignor to G. Crompton, deceased, (M. C. Crompton administratrix,) Worcester, Mass. Weft stop mechanism for looms	364,163	May 31	2982	775	39	1067
Dunn, Francis W., Lisbon, Wis. Land-marker	359,922	Mar. 22	2236	562	38	1344
Dunn, George, assignor of one-half to T. A. Boyne, Lee, Mass. Leader for paper-calender rolls	364,710	June 14	711	189	39	1231
Dunn, Henry <i>et al.</i> (See La Lone, Donald E., assignor.)						
Dunn, James B., New Orleans, La. Furnace for burning bagasse.....	364,228	June 7	40	13, 14	39	1096
Dunn, James H., Quinnimont, W. Va. Car-coupling.....	365,172	June 21	1411	372	39	1366
Dunn, James M., Kingsville, Mo. Gag-bit.....	355,442	Jan. 4	193	52	38	39
Dunn, James W., New Bloomfield, Mo. Folding feed-rack	364,229	June 7	42	14	39	1096
Dunn, John B. (See Gilchrist and Dunn.)						
Dunn, John M., and W. E. Sidnell, Norwalk, Ohio. Feed-water heater.....	361,054	Apr. 12	950	240	39	181
Dunn, Leonard F., Community, N. Y. Manufacture of table-cutlery	361,620	Apr. 19	1755	{ 454 455 }	{ 39 }	343
Dunn, Patrick, Auburn, N. Y. Nut-lock.....	363,052	May 17	1402	371	39	749
Dunn, Rufus P., Grand Crossing, assignor to G. L. Thompson, Chicago, Ill. Curling-iron.	361,682	Apr. 26	1857	481	39	371
Dunn, Ward C., Chicago, Ill. Car-heater	359,206	Mar. 8	1122	292	38	1117
Dunn, Ward C., Chicago, Ill. Car-heater	365,977	July 5	313	83	40	59
Dunn, William, assignor of two-thirds to D. B. Ruffner and G. S. Bolton, Philadelphia, Pa. Machine for making nut-fasteners	356,279	Jan. 18	1403	370	38	284
Dunn, William W., Fort Worth, Tex. Refrigerator	357,953	Feb. 15	1751	457	38	765
Dunn, William W., Peoria, Ill. Check-row wire	375,275	Dec. 20	1591	417	41	1372
Dunn, Winfield S., Washington, D. C. Carriage-curtain fastener.....	358,389	Feb. 22	2370	630	38	886
Dunnell, Julia. (See Werkheiser, Monroe, assignor.)						
Dunnigan, Catharine. (See Dunnigan, John E., assignor.)						
Dunnigan, John E., assignor to C. Dunnigan, Cleveland, Ohio. Grease-cup	360,379	Mar. 29	2959	751	38	1483
Dunnigan, John E., assignor to C. Dunnigan, Cleveland, Ohio. Oil-cup	373,059	Nov. 15	1176	315	41	706
Dunning, Henry, Wellington, Ontario, Canada. Wagon-tongue tip.....	371,880	Oct. 18	1642	424	41	341
Dunning, James A. (See Dunning, Willie J. and J. A.)						
Dunning, James A., Aulander, N. C. Horseshoe	363,996	May 31	2749	713	39	1021
Dunning, James A., Aulander, N. C. Fender for vehicle-wheels.....	368,912	Aug. 23	2268	603	40	909
Dunning, James A., Aulander, N. C. Metallic railway-tie.....	372,525	Nov. 1	347	96	41	536
Dunning, W. B. (See Coyle, Andrew M., assignor.)						
Dunning, William B., Geneva, N. Y. Grate	370,458	Sept. 27	1658	442	40	1369
Dunning, Willie J. and J. A., Aulander, N. C. Ax.....	356,060	Jan. 11	1088	286	38	219
Dunphe, John A., <i>et al.</i> (See Jordan, Sidney L., assignor.)						
Dunshee, Carlos E., Chicago, Ill. Lumber-piler.....	363,287	May 17	1715	{ 449 450 }	{ 39 }	810
Dunstan, James, Central Mine, Mich. Safety-catch.....	369,399	Sept. 6	123	36	40	1055
Dunstedter, Jacob, Edwardsville, Ill. Wheel.....	375,056	Dec. 20	1292	337	41	1312
Dunton, Delmer H., <i>et al.</i> (See Holcomb, Henry W., assignor.)						
Dunton, Eugene, <i>et al.</i> (See Holcomb, Henry W., assignor.)						
Dupaul, Joseph M., assignor to American Optical Company, Southbridge, Mass. Spectacle-bridge.....	362,613	May 10	772	213	39	624
Duplessis, Elouild, Lake Weedon, Quebec, Canada. Car-mover.....	363,124	May 17	1503	398	39	769
Duplex Printing Press Company. (See Cox, Joseph L., assignor.)						
Duplex Shoe Trimmer Company. (See Trask, Charles H., assignor.)						
Dupont, Benjamin E., Lexington, Ky. Lubricator.....	368,759	Aug. 23	2053	544	40	867
Dupuy, John, San Francisco, Cal. Whirligig	363,375	May 24	1834	482	39	842
Duquesne, Adrien, Paris, France. Loom	366,940	July 19	1625	{ 435 436 }	{ 40 }	324
Durand, Albert A., New York, N. Y. Cow-milker	372,406	Nov. 1	180	51	41	504
Durand & Huguenin, L. (See Annaheim, Joseph, assignor.)						
Durant, Edward G., Racine, Wis. Seat for churches	365,464	June 28	1842	479	39	1460
Durant, Edward G., A. D. Linn, and A. Shupe, Racine, Wis., assignors to T. Kane, Chicago, Ill., and Racine Hardware Manufacturing Company, Racine, Wis. Steam-boiler.....	365,173	June 21	1413	372	39	1367
Durfee, Bradford K., <i>et al.</i> (See Hartley, Charles J., assignor.)						
Durfee, Elisha B., Lincoln, Nebr. Rail-scraper and snow-plow	364,230	June 7	43	14	39	1096
Durfee, Walter H. (See Harrington, John, assignor.)						
Durgin, Albion L., Biddeford, Me., assignor to T. C. Entwistle & Co. Bolster for fly-frames.....	356,194	Jan. 18	1286	340	38	261
Durgin, Henry J., Rochester, N. Y. Extension-table	361,271	Apr. 19	1274	{ 326 327 }	{ 39 }	254
Durieu, Arthur, New Orleans, La. Portable switch-table and car-replacer.....	362,259	May 3	269	75	39	525

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Durkee, George B. (See Post and Durkee.)						
Durkee, George B., Chicago, Ill. Guitar-bridge	358,847	Mar. 8	638	158	38	1027
Durkee, George B., Chicago, Ill., assignor to Lyon & Healy. Mandolin	368,461	Aug. 16	1633	436	40	779
Durkee, George B., assignor to Lyon & Healy, Chicago, Ill. Apparatus for forming violin-case covers	370,731	Sept. 27	2077	551	40	1446
Durkee, George B., assignor to Lyon & Healy, Chicago, Ill. Manufacture of mandolins	370,732	Sept. 27	2079	552	40	1446
Durkin, Michael T., assignor to himself and J. White, Brooklyn, N. Y. Machine for forming sheet metal	357,765	Feb. 15	1511	{ 393 394 }	{ 38 38 }	{ 720 720 }
Durling, Jacob C., Marine City, Mich. Wire hoop	356,578	Jan. 25	1834	480	38	372
Durnford, Charles D., Edinburg, county of Mid-Lothian, Scotland. Photographic shutter	375,671	Dec. 27	2142	557	41	1484
Durnil, Cecil M., assignor to J. R. Deatherage, Fayette, Mo. Bustle	371,742	Oct. 18	1431	370	41	300
Duross, Patrick F., Long Island City, N. Y. Car-coupling	358,110	Feb. 22	1984	524	38	813
Durst, Murray H., Wheatland, Cal. Thill-coupling	367,745	Aug. 2	594	161	40	563
Durvin, James A., assignor of one-half to J. W. C. Bryant, Clifton Forge, Va. Frog	375,613	Dec. 27	2057	534	41	1468
Duryea, Charles E., St. Louis, Mo. Bicycle	364,231	June 7	46	14	39	1097
Duryea, Charles E., Washington, D. C., assignor of one-half to H. G. Rouse, Peoria, Ill. Velocipede	357,819	Feb. 15	1575	410	38	732
Dusenbury, Philip S., assignor of one-half to G. A. Masters, Sedalia, Mo. File holder and rack	359,560	Mar. 15	1659	423	38	1223
Dutch, William, San Francisco, Cal. Head-light	364,401	June 7	264	75	39	1139
Dutcher, J. A., et al. (See Zimmerling, August F., assignor.)						
Dutcher, P. E., et al. (See Zimmerling, August F., assignor.)						
Dutemple, William R., Providence, R. I. Cyclometer	362,883	May 10	1153	309	39	695
Dutton, George N., Penacook, N. H. Cuff-fastener	375,672	Dec. 27	2143	557	41	1484
Dutton, Joseph B., Detroit, Mich. Grain-meter	367,096	July 26	1845	498	40	373
Dutton, Joseph B., assignor to J. B. Dutton Manufacturing Company, Detroit, Mich. Grain-meter	367,097	July 26	1846	498	40	373
Dutton Manufacturing Company, J. B. (See Dutton, Joseph B., assignor.)						
Dutton, Rufus, Yonkers, assignor to Mower Knife Grinder Company, New York, N. Y. Machine for grinding mower-knives	359,964	Mar. 22	2305	{ 579 580 581 }	{ 38 38 38 }	{ 1357 1357 1357 }
Duval, Martin L. E., Paris, France. Diffusing apparatus	369,844	Sept. 13	738	197	40	1183
Duval, Martin L. E., assignor to Société Anonyme Dite Compagnie de Fives-Lille, Paris, France. Mechanical device for shutting the doors of diffusing apparatus	369,845	Sept. 13	739	197	40	1183
Duvall, Anthony F., assignor to Perkins, Campbell & Co., Cincinnati, Ohio. Gig-saddle tree	367,277	July 26	2100	567	40	421
Duvall, Anthony F., assignor to Perkins, Campbell & Co., Cincinnati, Ohio. Hame-clip	369,635	Sept. 6	451	126	40	1121
Duvall, Anthony F., Ann Arbor, Mich., assignor to Graf, Morsback & Co., Cincinnati, Ohio. Harness-saddle tree	368,913	Aug. 23	2268	633	40	909
Duvall, William T., assignor of one-half to H. W. Blount, Washington, D. C. Brick-machine	373,134	Nov. 15	1284	{ 341 342 }	{ 41 41 }	{ 726 726 }
Dweliuss, Augustus L., Cincinnati, Ohio. Electrical conductor for railway-trains	366,209	July 12	624	171	40	126
Duxbury, John W. (See Rowell, Horace N., assignor.)						
Duzan, Thomas H., Palestine, Tex. Dust-guard for car-windows	363,125	May 17	1503	398	39	769
Dwelle, Albert, St. Louis, Mo. Shaft-straightening machine	366,466	July 12	958	261	40	191
Dwelle, Charles W., Denver, Colo. Elevator	360,800	Apr. 5	567	148	39	107
Dwelle, Charles W., assignor of one-half to R. E. Watson and R. B. Stapp, Denver, Colo. Three-way valve	373,819	Nov. 29	2325	623	41	941
Dwelle, Charles W., and R. B. Stapp, assignors to Stapp Gas Light and Heat Company, Denver, Colo. Water-gas furnace	361,996	Apr. 26	2318	605	39	453
Dwelle, Lucius H., Foxcroft, Me. Combined hay rake and loader	367,278	July 26	2101	567	40	421
Dwight, Justus L., assignor of one-half to T. N. Kibbe, Tribe's Hill, N. Y. Car-replacer	367,967	Aug. 9	925	250	40	635
Dwight, William M., Detroit, Mich. Guide for planing and matching machines	363,322	May 17	1765	463	39	819
Dwyer, John. (See Bayne and Dwyer.)						
Dwyer, John, East Pembroke, N. Y. Horseshoe-vice attachment for anvils	362,614	May 10	773	213	39	624
Dyer, Carlos, Lebanon, N. H. Sliding door	359,965	Mar. 22	2310	581	38	1358
Dyer, Henry C. S., Westhope, county of Shropshire, England. Manufacture of compound armor-plates	371,129	Oct. 4	565	{ 143 144 }	{ 41 41 }	{ 112 112 }
Dyer, Isaac T., Chicago, Ill. Automatic apparatus for extinguishing fires in cars and other places	375,314	Dec. 20	1644	431	41	1382
Dyer, Lucius, Millbridge, Me. Anti-frictional leader for the sheets of sails	375,696	Dec. 27	2179	567	41	1491
Dyer, Richard N., East Orange, N. J. Electric meter	371,559	Oct. 18	1162	303	41	245
Dyer, Samuel. (See Whiteley, Bayley, and Dyer.)						
Dyer, Samuel. (See Whiteley, Bayley, and Dyer.) (Reissue.)						
Dyer, William H., et al. (See Hanson, Freeman, assignor.)						
Dyer, William H., assignor to J. A. Ross, Washington, D. C. Machine for turning balusters	371,130	Oct. 4	565	144	41	112
Dykes, Thomas. (See Stoffert and Dykes.)						
Dyott, Charles G., assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Lamp or lantern	374,144	Nov. 29	2784	748	41	1030
Dyrenforth, Robert G. (See Hite, Cornelius B., assignor.)						
Eagle, Alburtis, Northampton, Pa. Journal-box and lubricator	365,246	June 21	1519	396	39	1386
Eagle Lock Company. (See Perkins, Elihu L., assignor.)						
Eagle Machine Company. (See Joss, George N., assignor.)						
Eagle Pencil Company. (See Adams, George B., assignor.)						
Eagle Pencil Company. (See Blakeslee, Edward C., assignor.)						
Eagle Pencil Company. (See Boman, Claes W., assignor.)						
Eagle Pencil Company. (See Cornwall, George, assignor.)						
Eagle Pencil Company. (See Fischer, Frederick J., assignor.)						
Eagle Pencil Company. (See Ingram, William G., assignor.)						
Eagleston, Joseph, assignor of one-half to J. S. McKinley, Orient, Ohio. Harvester-reel	359,855	Mar. 22	2138	539	38	1326
Eames, Fannie V. (See Eames, Gardner T., assignor.)						
Eames, Gardner T., assignor to F. V. Eames, Chicago, Ill. Pulley	375,415	Dec. 27	1778	465	41	1416
Eames Vacuum Brake Company. (See Massey, Albert P., assignor.)						
Earhart, George W. (See Slipper and Earhart.)						
Earl, Spencer D., Philadelphia, Pa. Shaking-grate	362,499	May 10	608	172	39	595
Earle, Frank M. (See Crook, Charles, assignor.)						
Earle, Harry L., Minneapolis, Minn. Automatic grain-scale	369,698	Sept. 13	534	148	40	1146
Earle, Harry L., Minneapolis, Minn., H. F. Snedigar and J. A. Pement, Iroquois, Dak. Ter.; said Pement assignor to said Earle and Snedigar. Steam-boiler	369,697	Sept. 13	532	147	40	1145
Earle, William P., trustee. (See Wardwell, Simon W., Jr., assignor.)						
Earley, Edward S., Philadelphia, Pa. Burial-casket	361,147	Apr. 12	1100	279	39	209
East Hampton Bell Company. (See Goff, George W., assignor.)						
East, William S., Lima, Ohio. Railway-crossing	357,704	Feb. 15	1404	369	38	701
Easterling, Caleb, Friendswood, Ind. Broadcast seeding-machine	363,053	May 17	1402	371	39	749
Eastman, Andrew M., Milford, and J. R. Thomas, Boston, Mass., assignors to S. A. Woods Machine Company, of Massachusetts. Cutting-off saw	371,676	Oct. 18	1328	343	41	278

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Eastman Dry Plate and Film Company. (See Eastman, George, assignor.)						
Eastman Dry Plate and Film Company. (See Eastman and Walker, assignors.)						
Eastman Dry Plate and Film Company. (See Stoddard, Isaac H., assignor.)						
Eastman Dry Plate and Film Company. (See Walker and Eastman, assignors.)						
Eastman, Franklin P., New York, N. Y. Combined deck and dumping-scow	359,012	Mar. 8	877	223	38	1070
Eastman, Fred B., assignor to S. W. Bates, B. F. Wright, Waterville, and W. F. Lunt, Portland, Me. Water-feeding device for boilers	364,636	June 14	604	162	39	1209
Eastman, George. (See Walker and Eastman.)						
Eastman, George, assignor to Eastman Dry Plate and Film Company, Rochester, N. Y. Apparatus for coating photographic papers	370,050	Sept. 20	1067	282	40	1250
Eastman, George, and W. H. Walker, assignors to Eastman Dry Plate and Film Company, Rochester, N. Y. Apparatus for manufacturing sensitive photographic films	358,848	Mar. 8	640	{ 158 159 }	{ 38 38 }	1027
Eastman, Rufus M., Boston, assignor of one-half to F. M. Upham, Somerville, Mass. Shoulder-pad for garments	374,120	Nov. 29	2752	739	41	1024
Eastman, William H., assignor to F. R. Butterfield, Concord, A. J. Lane, and A. Elliott, Manchester, N. H. Mechanical telephone	371,439	Oct. 11	998	259	41	203
Eastman, William H., assignor to F. R. Butterfield, Concord, A. J. Lane, and A. Elliott, Manchester, N. H. Acoustic-telephone exchange	373,060	Nov. 15	1178	315	41	706
Eastman, William H., Concord, assignor, by mesne assignments, to Eureka Telephone Company, Nashua, N. H. Mechanical-telephone exchange	375,316	Dec. 20	1647	432	41	1382
Eastman, William H., and D. J. Adams, Concord, assignors, by mesne assignments, to Eureka Telephone Company, Nashua, N. H. Mechanical telephone	375,315	Dec. 20	1646	431	41	1382
Easton, James W., New York, N. Y. Dynamo-electric generator	357,705	Feb. 15	1405	370	38	701
Easton, James W., New York, N. Y. Fusible connection for armatures of electric generators	361,273	Apr. 19	1277	327	39	254
Easton, James W., New York, N. Y. Electric motor	361,274	Apr. 19	1278	328	39	254
Easton, James W., New York, N. Y. Self-exciting alternate-current electric generator	363,126	May 17	1504	398	39	769
Easton, James W., New York, N. Y. Safety contact-brush for dynamo-electric machines	363,127	May 17	1505	398	39	769
Easton, James W., New York, N. Y. Dynamo-electric machine	363,128	May 17	1506	399	39	769
Easton, James W., New York, N. Y. Method of and apparatus for detecting short circuits in dynamo-electric machines	363,129	May 17	1507	399	39	769
Easton, James W., New York, N. Y. Dynamo-electric machine	366,941	July 19	1629	436	40	324
Easton, James W., New York, N. Y. Commutator-connection for dynamo-electric machines	373,971	Nov. 29	2540	683	41	982
Easton, James W., New York, N. Y. Tension device for winding electro-magnets	375,697	Dec. 27	2180	567	41	1491
Easton, Lucian F., La Crosse, Wis. Electric temperature-regulator	373,061	Nov. 15	1179	{ 315 316 }	{ 41 41 }	706
Easton, William H., Denver, Colo. Pillow-sham holder	365,375	June 28	1718	445	39	1437
Eaton, Alpheus R., Brownfield, Me. Holdback	363,814	May 31	2483	644	39	972
Eaton, Benjamin D., Johnstown, N. Y. Fruit-picker	359,777	Mar. 22	2010	508	38	1303
Eaton, Cole & Burnham Company. (See Strong, John W., assignor.)						
Eaton, David, Rochester, Vt. Ladder-hook	356,353	Jan. 18	1514	398	38	305
Eaton, George O., Gardiner, Mont. Ter. Finger-nail cleaner	368,198	Aug. 16	1250	333	40	704
Eaton, Hugh F. (See Elliott, A. Dayton, assignor.)						
Eayrs, John E., Washington, D. C. Scarf-holder	360,767	Apr. 5	527	136	39	99
Eberhardt, Henry E. (See Eberhardt, Ulrich and H. E.)						
Eberhardt, Theophilus C., Cuero, Tex. Addressing-machine	375,481	Dec. 27	1866	{ 487 488 }	{ 41 41 }	1433
Eberhardt, Ulrich, Newark, N. J. Barrel-washing machine	371,046	Oct. 4	453	114	41	89
Eberhardt, Ulrich and H. E., Newark, N. J. Barrel-cleaning machine	371,045	Oct. 4	452	113	41	89
Eberhart, Adolphus. (See Beiger and Eberhart.)						
Eberhart, Adolphus, Mishawaka, Ind. Stretcher for felt or fabric boots, &c.	374,353	Dec. 6	264	70	41	1096
Eberhart, Albert G., Toledo, Iowa. Track-clearer	366,767	July 19	1402	375	40	282
Eberhart, John G., Bippus, Ind. Harrow	357,911	Feb. 15	1697	442	38	755
Eberman, Albert S., Baltimore, Md. Injector	361,148	Apr. 12	1100	279	39	209
Eberman, Albert S., Baltimore, Md. Injector	367,138	July 26	1899	514	40	383
Ebert, Charles W., Rosemond, Ill. Straw or hay stacker	356,992	Feb. 1	347	92	38	487
Ebnetter, Johann J., Adlerberg, St. Gall, Switzerland, assignor to C. A. Gouzenbach, New York, N. Y. Fabric-holding frame for embroidering-machines	369,105	Aug. 30	2550	{ 677 678 }	{ 40 40 }	972
Eby, Christie, Eagle River, Wis. Adjustable supporting-bracket for weather-boards	368,574	Aug. 23	1791	476	40	817
Eby, Frank C. (See Kiefer and Eby.)						
Ecaubert, Frederic, Brooklyn, N. Y. Manufacture of rings for watch-case centers	362,615	May 10	774	213	39	624
Eccles, William M., assignor of one-half to A. S. Bridgess, St. Louis, Mo. Tobacco-pipe	375,140	Dec. 20	1419	370	41	1336
Eccleston, William H., and L. E. Sibley, Southbridge, Mass. Nose-guard for spectacles	375,541	Dec. 27	1944	508	41	1449
Eck, Martin, Frankfurt-on-the-Main, Germany. Hand typographic apparatus	373,344	Nov. 15	1605	424	41	784
Ecker, John W., Oakland, Cal. Relief picture and frame	367,899	Aug. 9	822	221	40	616
Ecker, William, Newark, N. J. Wind-wheel	357,471	Feb. 8	1047	277	38	625
Eckerson, Charles W., Creston, Iowa. Furnace-grate	367,378	Aug. 2	30	8	40	457
Eckerson, Charles W., Creston, Iowa. Ash-pan	375,416	Dec. 27	1779	465	41	1416
Eckerson, David L., assignor of one-half to A. Diefendorf and C. Brown, Worcester, Mass. Caloric engine	373,820	Nov. 29	2327	{ 623 624 }	{ 41 41 }	942
Eckert, Thomas T., New York, N. Y. Clip or hanger-clasp for supporting cables, &c.	374,948	Dec. 20	1144	299	41	1286
Eckert, William H., and J. A. Seely, New York, N. Y. Police-telephone system	365,911	July 5	218	56	40	42
Eckhardt, Franz F., North Wales, Pa. Bee-hive	368,078	Aug. 9	1076	287	40	664
Eckhart, John G., assignor of one-half to W. H. Holt and L. S. Goodwin, Edna, Kans. Cock-eye	361,683	Apr. 26	1858	481	39	372
Eckis, Emery S. (See Alexander, Henry D., assignor.)						
Eckles, George, Eyota, Minn. Bustle	362,260	May 3	270	75	39	526
Economist Plow Company. (See Tower Caleb E., assignor.)						
Economy Kindling Wood Stove Company. (See Knight, William H. H., assignor.)						
Eddington, Edwin E., Janesville, Wis. Cultivator	364,095	May 31	2877	{ 746 747 }	{ 39 39 }	1047
Eddison Supply Company. (See Lewis, Leroy S., assignor.)						
Eddy, Brice B., assignor of two-thirds to M. H. Neil and C. Schwenker, Jr., Columbus, Ohio. Gate	361,272	Apr. 19	1275	327	39	254
Eddy, Charles B., Groton, Mass. Incubator	355,684	Jan. 11	534	140	38	114
Eddy, George W., New London, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Signal-bell	361,751	Apr. 26	1950	507	39	386
Eddy, John G., assignor of one-half to E. P. Ewers, Fayette, Ohio. Ladder	372,133	Oct. 25	2030	520	41	419
Eddy, Walton A., Randolph, N. Y. Joint for the corners of boxes, frames, and like structures	369,927	Sept. 13	875	231	40	1208
Ede, Edward F., and P. de Bondini, Galata, Constantinople, Turkey. Apparatus for applying postage-stamps, adhesive labels, and the like to envelopes or other articles	366,574	July 12	1124	301	40	224
Eder, James M., London, England. Device for securing envelopes, &c.	362,730	May 10	941	256	39	656
Edgar, Charles S. (See Freeman, Augustus M., assignor.)						
Edgar, George M., Clarkston, Mich. Step-ladder	368,199	Aug. 16	1250	333	40	704

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Edgar, John, Rochester, Minn. Whiffletree-center.....	372,365	Nov. 1	122	37	41	494
Edgar, John, Rochester, Minn. Thill-coupling.....	372,366	Nov. 1	124	37, 38	41	494
Edgar, John, Rochester, Minn. Fifth-wheel.....	372,407	Nov. 1	183	51, 52	41	504
Edgcomb, Roswell S. (See Burch, George C., assignor.)						
Edge Moor Iron Company. (See Sellers, George H., assignor.)						
Edge Moor Iron Company. (See Sellers and Malam, assignors.)						
Edge, William C., Newark, N. J. Ornamenting jewelry.....	360,283	Mar. 29	2829	719	38	1460
Edge, William C., Newark, N. J. Ear wire and catch.....	360,423	Apr. 5	29	9	39	8
Edgerton, Elmer W. (See Edgerton, Ezekiel and E. W.)						
Edgerton, Ezekiel and E. W., Cleveland, Ohio. Spring-bed.....	375,141	Dec. 20	1420	370	41	1336
Edgerton, Henry H., Danbury, Conn. Obtaining hydrogen from water-gas.....	366,081	July 5	451	122	40	85
Edgington, George F. (See Brown and Edgington.)						
Edgley, George R., Madisonville, assignor to Crane & Breed Manufacturing Company, Cincinnati, Ohio. Singletree.....	368,079	Aug. 9	1078	287	40	664
Edington, Isaac B., assignor to himself and I. L. Huff, Waterloo, N. Y. Sash-holder.....	371,560	Oct. 18	1164	303	41	245
Edison Electric Light Company. (See Edison, Thomas A., assignor.)						
Edison Lamp Company. (See Howell, John W., assignor.)						
Edison Machine Works. (See Kruesi, John, assignor.)						
Edison, Thomas A., Llewellyn Park, N. J. System of electrical distribution.....	365,978	July 5	314	83	40	59
Edison, Thomas A., Llewellyn Park, N. J. System of electrical distribution.....	369,439	Sept. 6	177	51	40	1065
Edison, Thomas A., Llewellyn Park, N. J. System of electrical distribution.....	369,441	Sept. 6	179	51, 52	40	1066
Edison, Thomas A., Llewellyn Park, N. J. System of electrical distribution.....	369,442	Sept. 6	182	52	40	1066
Edison, Thomas A., Llewellyn Park, N. J. System of electrical distribution.....	369,443	Sept. 6	183	52	40	1067
Edison, Thomas A., Llewellyn Park, N. J. Dynamo-electric machine.....	373,584	Nov. 22	1985	528	41	866
Edison, Thomas A., Menlo Park, N. J. Electric meter.....	370,123	Sept. 20	1180	312	40	1270
Edison, Thomas A., Menlo Park, N. J. Manufacture of filaments for incandescing electric lights.....	370,124	Sept. 20	1182		40	1271
Edison, Thomas A., Menlo Park, N. J. Electrical transmission of power.....	370,125	Sept. 20	1183	313	40	1271
Edison, Thomas A., Menlo Park, N. J. Electrical transmission of power.....	370,126	Sept. 20	1184	313	40	1271
Edison, Thomas A., Menlo Park, N. J. Electrical transmission of power.....	370,127	Sept. 20	1184	313	40	1271
Edison, Thomas A., Menlo Park, N. J. Electrical transmission of power.....	370,128	Sept. 20	1185	313	40	1272
Edison, Thomas A., Menlo Park, N. J. Electrical transmission of power.....	370,129	Sept. 20	1186	314	40	1272
Edison, Thomas A., Menlo Park, N. J. Electrical transmission of power.....	370,130	Sept. 20	1187	314	40	1272
Edison, Thomas A., Menlo Park, N. J. Electrical transmission of power.....	370,131	Sept. 20	1188	314	40	1273
Edison, Thomas A., Menlo Park, N. J. Telegraphy.....	370,132	Sept. 20	1189	314	40	1273
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescent electric lamp.....	358,599	Mar. 1	279	66	38	955
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescing electric lamp.....	358,600	Mar. 1	280	66	38	955
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Valve-gear.....	365,465	June 28	1843	479	39	1461
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Filament for incandescent electric lamps.....	365,509	June 28	1914		39	1475
Edison, Thomas A., Menlo Park, N. J., assignor, by mesne assignments, to Edison Electric Light Company, New York, N. Y. System of electrical distribution.....	369,280	Aug. 30	2762	{ 737 } { 738 }	{ 40 }	1016
Edison Type Writer Company. (See Waitt, George L., assignor.)						
Edleblute, Lucius S., Sheboygan, Wis. Table-slide.....	363,219	May 17	1631	428	39	794
Edleman, Daniel, Kirbyville, Pa. Device for releasing animals.....	355,306	Jan. 4	19	6	38	6
Edloff, George L. (See Lochbihler and Edloff.)						
Edmonds, George D., Rocky Hill, Conn. Traveler-ring for spinning-machines, &c.....	368,821	Aug. 23	2136	566	40	883
Edmester, Joseph L. (See Duby and Edmester.)						
Edmonds, Edward N. (See Hinds and Edmonds.)						
Edmonds, Henry R., Philadelphia, Pa. Seesaw.....	366,082	July 5	452	122	40	85
Edmonds, James H., Valparaiso, Ind. Dental plugger.....	360,864	Apr. 12	666	175	39	131
Edmondson, Allan, J. B. Moorhouse, and T. A. Procter, Skipton-in-Craven, county of York, England. Hinge for step-ladders.....	357,188	Feb. 8	664	172	38	553
Edmondson, Thomas G., Tarpon Springs, Fla. Folding anchor.....	374,526	Dec. 6	509	133	41	1144
Edmondson, William A., Morven, Ga. Plow.....	359,598	Mar. 22	1743	{ 443 } { 444 }	{ 38 }	1255
Edmunds, Frank M., Franklin Falls, N. H. Screen-cleaner for paper-machines.....	360,089	Mar. 29	2517	641	38	1403
Edsall, William H., Brooklyn, N. Y. Metal bedstead.....	358,151	Feb. 22	2047	538	38	824
Edson, Jacob. (See Rice and Edson.)						
Edson, Jarvis B., Brooklyn, assignor to American Zylonite Company, New York, N. Y. Apparatus for working zylonite.....	356,108	Jan. 18	1176	311	38	241
Edson, Joseph R., et al. (See Ekhart, John, assignor.)						
Edwards, Albert, Brooklyn, N. Y. Apparatus for coating surfaces.....	358,849	Mar. 8	644	159	38	1028
Edwards, Benjamin E. (See Hatch, Frank, assignor.)						
Edwards, Burton F., et al. (See Bartlett, George C., assignor.)						
Edwards, Charles D., Albert Lea, Minn. Grain-separator.....	375,142	Dec. 20	1420	370	41	1336
Edwards, Edward P., Webster City, Iowa. Foot-guard for railway-switches, &c.....	367,609	Aug. 2	367	104	40	521
Edwards, Edwin. (See Kommerell and Edwards.)						
Edwards, Fitzhugh. (See Cole, William R., assignor.)						
Edwards, Franklin J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button.....	366,467	July 12	960	261	40	191
Edwards, Granville M., Gray, assignor of one-half to W. E. Dennison, Portland, Me. Automatic car-lamp extinguisher.....	366,999	July 19	1699	457	40	337
Edwards, Henry F. (See Mesker and Edwards.)						
Edwards, Henry F., assignor of one-half to American Electrical Works, Providence, R. I. Suspending electric lights.....	355,443	Jan. 4	194	52	38	39
Edwards, James, and L. Elliott, Baltimore, Md. Coffee-pot.....	364,911	June 14	1021	267	39	1286
Edwards, John W., and C. L. Becker, Waterloo, N. Y. Feed-regulator for roller-mills and purifiers.....	367,608	Aug. 2	366	103	40	521
Edwards, Joseph, and J. R. F. Kelly, Brooklyn, N. Y. Dredging apparatus.....	366,468	July 12	961	{ 261 } { 262 }	{ 40 }	191
Edwards, Nace, Barton, Ohio. Car-coupling.....	367,798	Aug. 9	681	184	40	588
Edwards, Percy H., Brooklyn, N. Y. Clasp for sample-envelopes.....	364,501	June 7	418	113	39	1167
Edwards, Richard J., Galena, Ill. Car-coupling.....	363,614	May 24	2196	569	39	912
Edwards, Samuel G., Rosier, Mo. Bee-hive.....	358,850	Mar. 8	645	159	38	1028
Edwards, Thomson V., assignor of one-half to F. H. Cotes, Monmouth, Ill. Wagon-rack.....	360,211	Mar. 29	2713	686	38	1438
Edwards, W. A., et al. (See Spivey, Luke, assignor.)						
Edwards, William H., et al. (See Bartlett, George C., assignor.)						
Edwards, William J., Chicago, Ill. Evener-coupling for vehicle-poles.....	374,294	Dec. 6	169	44	41	1079
Eells, Albert F., Boston, Mass. Raising sunken or stranded vessels.....	372,210	Oct. 25	2137	549	41	441
Effinger, Michael H., Harrisonburg, Va. Plow-point.....	364,912	June 14	1022	267	39	1286
Egan, Charles E., assignor of one-half to W. Y. Miles, Columbus, Ohio. Telephone.....	355,685	Jan. 11	536	141	38	114

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Egan, Charles E., assignor of one-half to W. Y. Miles, Columbus, Ohio. Telephone-transmitter	355,686	Jan. 11	537	141	38	114
Egan, Charles E., assignor of one-half to W. Y. Miles, Columbus, Ohio. Telephone	355,687	Jan. 11	538	141	38	115
Egan Imperial Truss Company. (See Egan, James Y., assignor.)						
Egan, James, Waucoma, Iowa. Combined self-heating sad-iron and fluting-iron	366,575	July 12	1126	{ 301 302 }	40	224
Egan, James Y., Toronto, Ontario, Canada, assignor to Egan Imperial Truss Company, Ann Arbor, Mich. Truss	367,799	Aug. 9	682	185	40	588
Egan, Patrick J., assignor of one-half to J. D. Richards, Boston, Mass. Picture-hanger	365,676	June 28	2163	564	39	1522
Egbertson, James G., Sun Prairie, Wis. Horse-collar pad	358,851	Mar. 8	646	159	38	1028
Ege, Alexander H. (See Dodson, Wilson P., assignor.)						
Ege, Alexander H., Mechanicsburg, Pa. Railway-switch	357,189	Feb. 8	665	{ 172 173 }	38	553
Ege, Alexander H., Mechanicsburg, Pa. Railway-frog	370,051	Sept. 20	1070	283	40	1251
Ege, Alexander H., Mechanicsburg, Pa. Rail-joint support	371,047	Oct. 4	455	114	41	90
Egell, Henry L., et al. (See Farmer, Luther C., assignor.)						
Egen, Carl. (See Heidmann, Hüttges, and Egen.)						
EGGE, Frederick, Bridgeport, Conn. Cord-clamp	375,143	Dec. 20	1421	370	41	1337
EGGE, Frederick, assignor to Smith & EGGE Manufacturing Company, Bridgeport, Conn. Attachment-holder for sewing-machines	356,458	Jan. 25	1664	436	38	340
EGGE, Frederick, assignor to Smith & EGGE Manufacturing Company, Bridgeport, Conn. Machine for stitching and cutting button-holes	362,945	May 17	1248	{ 331 332 }	39	718
Eggert, William, Jr., Cincinnati, Ohio. Artificial flower	355,982	Jan. 11	987	259	38	200
Egginton, Joseph A., Montreal, Quebec, Canada. Glass cover for pictures, &c	370,133	Sept. 20	1191	315	40	1273
Eginton, Sidney J., Bradford, Pa. Oil-pump	364,232	June 7	47	15	39	1097
Egler, Stephen, Pike Mills, Pa. Hub for wheels	358,736	Mar. 1	465	113	38	990
Egley, John C., assignor to T. A. Pearce, Philadelphia, Pa. Circular-knitting machine	357,472	Feb. 8	1048	277	38	626
Egner, Frederic, assignor of one-half to J. P. Keiser, St. Louis, Mo. Apparatus for the manufacture of illuminating-gas	368,882	Aug. 23	2218	590	40	900
Ehbets, Carl J., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	373,277	Nov. 15	1505	{ 397 398 }	41	766
Ehbets, Jacob O. (See Elmore and Ehbets.)						
Ehlers, Johann H. (See Weisse, Carl F. H., assignor.)						
Ehrgott, Michael, Brooklyn, N. Y. Portable forge	366,469	July 12	963	262	40	192
Ehrlich, Friedrich E. P., Gohlis, near Leipsic, Saxony, Germany. Mechanical musical instrument	368,080	Aug. 9	1078	287	40	664
Ehrlich, Leo, assignor to C. J. Blake, St. Louis, Mo. Pocket-stamp	357,473	Feb. 8	1050	278	38	626
Ehrsam, Frederick W., New York, N. Y. Rotary fan	357,912	Feb. 15	1698	442	38	755
Eichhorn, J. Charles. (See Hambuier, Ephraim, assignor.)						
Eickemeyer, Rudolf, Yonkers, N. Y. Dynamo-electric machine	358,340	Feb. 22	2299	{ 606 607 608 }	38	874
Eickemeyer, Rudolf, Yonkers, N. Y. Tool for curling brims of hats	360,865	Apr. 12	668	175	39	131
Eickemeyer, Rudolf, Yonkers, N. Y. Machine for blocking and shaping hats	361,353	Apr. 19	1382	{ 355 356 357 }	39	273
Eickemeyer, Rudolf, Yonkers, N. Y. Dynamo-electric generator	369,400	Sept. 6	125	36	40	1056
Eickemeyer, Rudolf, Yonkers, N. Y. Electrical converter, motor, and generator	375,542	Dec. 27	1946	508	41	1449
Eickemeyer, Rudolf, Yonkers, N. Y. Spark-coil for gas-lighting	375,614	Dec. 27	2058	534	41	1468
Eidelbach, Andrew C., Flatonia, Tex. Saw gummer and sharpener	357,913	Feb. 15	1699	443	38	756
Eilmann, Johan H., assignor to J. Wolf, Milwaukee, Wis. Box-fastener	361,149	Apr. 12	1104	279	39	209
Einbigler, Rudolf, and C. Adler, New York, N. Y. Flat spiral wire netting	373,177	Nov. 15	1359	360	41	738
Eiseman, Augustus H., St. Louis, Mo. Trace-holder	355,600	Jan. 4	395	107	38	79
Eiseman, Augustus H., St. Louis, Mo. Trace-holder. (Reissue)	10,870	Oct. 4	608	156	41	121
Eiseman, Benjamin, et al. (See Bail, Philip V., assignor.)						
Eisen, Herman J., Waterbury, Conn. Parallel-ruler	374,462	Dec. 6	420	109	41	1126
Eisenbeis, Charles J., Allegheny City, Pa. Making slippers	369,928	Sept. 13	876	231	40	1208
Eisenhart, Edward H., New York, N. Y. Rug	359,503	Mar. 15	1561	399	38	1205
Eisenhour, Martin A., Plymouth, Ind. Cultivator	364,583	June 7	535	144	39	1189
Eisenhour, Martin A., Plymouth, Ind. Cultivator-tooth	369,508	Sept. 6	264	74	40	1084
Eisenhuth, Oscar, assignor of one-half to J. S. Snyder, Detroit, Mich. Bung and bushing	368,139	Aug. 9	1154	307	40	678
Eiserer, Georg. (See Jenner and Eiserer.)						
Eitapenc, Fred., Binghamton, N. Y. Lead-pipe reel	355,515	Jan. 4	284	75	38	57
Eitapenc, Frederick, Oneonta, N. Y. Reel	374,734	Dec. 13	806	212	41	1213
Eklart, John, assignor of two-thirds to A. F. Childs and J. R. Edson, Washington, D. C. Apparatus for sewing carpets	374,145	Nov. 29	2786	748	41	1030
Eklund, John. (See Olds and Eklund.)						
Ekroth, Theodor, Stockholm, Sweden. Fare-box	369,048	Aug. 30	2463	653	40	956
Elam, William E., Americus, Ga. Cartridge-loading machine	358,440	Mar. 1	23	8	38	907
Elastic Nut Company. (See Burdick, Justin H., assignor.)						
Elbel, Gustavus, Canton, Ohio. Trace-carrier	368,998	Aug. 30	2392	636	40	942
Elcock, Joseph, Mechanicsburg, Pa. Gate	358,653	Mar. 1	348	83	38	968
Elder, Edward E., Lynn, Mass. Machine for sawing wooden gutters	356,280	Jan. 18	1404	371	38	284
Elder, Edward E., Lynn, Mass. Machine for making bungs	373,345	Nov. 15	1606	424	41	784
Elder, James C., Jefferson, assignor to American Etching and Engraving Company, Chicago, Ill. Producing blue prints	368,656	Aug. 23	1892	504	40	837
Eldred, Horace H. (See McDonough and Eldred.)						
Eldridge, M. Lippincott. (See Fulton and Eldridge.)						
Eldridge, Morris F., Toledo, Ohio. Carriage-top	372,367	Nov. 1	126	38	41	494
Electric Amalgam Company. (See Hickley, Arthur S., assignor.)						
Electric Blind Slat Company. (See Brainard and Swan, assignors.)						
Electric Fire Apparatus Company. (See Graves, Fre (B., assignor.)						
Electric Gas Lighting Company. (See Bosworth, Charles B., assignor.)						
Electric Gas Lighting Company. (See Tirrell, Jacob P., assignor.)						
Electric Locomotive and Power Company. (See Elieson, Chaimsonovitz P., assignor.)						
Electric Motor Company, C. & C. (See Crocker and Curtis, assignors.)						
Electric Motor Company, C. & C. (See Curtis and Crocker, assignor.)						
Electric Motor Company, C. & C. (See Curtis, Wheeler, and Crocker, assignors.)						
Electric Motor Company, C. & C. (See Wheeler, Schnyler S., assignor.)						
Electric Motor Company, C. & C. (See Wheeler and Curtis, assignors.)						
Electrical Accumulator Company. (See Conant, Thomas P., assignor.)						
Electrical Accumulator Company. (See Faure, Camille A., assignor.)						
Electrical Accumulator Company. (See Griscom, William W., assignor.)						
Electrical Accumulator Company. (See Starr, Eli T., assignor.)						
Electro Mechanical Manufacturing Company. (See Stonitsch and Sweet, assignors.)						
Elefsen, Edvard, Chicago, Ill. Revolving hand-fan	357,072	Feb. 1	465	124	38	508

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Eley, Philip, Bayonne, N. J. Machine for making wire handles.....	356,195	Jan. 18	1287	341	38	261
Eley, Philip, Bayonne, N. J. Soldering-machine.....	356,196	Jan. 18	1290	341	38	261
Elfstrom, John. (See Shriner, Henry C., assignor.)						
Elger, Charles C., et al. (See Patten, Jefferson, assignor.)						
Elger, William D., et al. (See Patten, Jefferson, assignor.)						
Elges, Gottlieb D., Clinton, Mo. Cigar-mold.....	372,607	Nov. 1	473	127	41	559
Elges, Gottlieb D., Clinton, Mo. Cigar-molding machine.....	375,615	Dec. 27	2059	535	41	1468
Elges, Gottlieb D., Clinton, Mo. Cigar-molding machine.....	375,616	Dec. 27	2060	535	41	1468
Elgin, Samuel T., Astoria, Ill. Pick.....	366,576	July 12	1127	302	40	225
Elias, Joseph, Beyroot, Syria. Hydraulic marine motor.....	366,768	July 19	1403	376	40	282
Elias, Leopold, Kosten, Prussia, Germany. Manufacture of glazed paper for bags, &c.....	372,408	Nov. 1	184	.....	41	504
Elieson, Chaimsonovitz P., assignor to Electric Locomotive and Power Company, (limited,) London, England. Electrical accumulator or storage-battery.....	358,341	Feb. 22	2303	608	38	874
Elkin, Mark. (See Buchholz, Edward, assignor.)						
Elkins, Charles M., Wakefield, Mass., assignor of one-half to W. F. Weston, Matteawan, N. Y. Door check and holder.....	368,657	Aug. 23	1893	505	40	837
Elkins, William F., Comanche, Tex. Spark-arrester.....	356,243	Jan. 18	1353	357	38	274
Ellacott, Charles R., Montreal, Quebec, Canada. Machine for forging horseshoe-nails.....	356,391	Jan. 18	1563	{ 411 412 }	{ 38 39 }	314
Ellin, Thomas R., Sheffield, county of York, England. Pocket-knife.....	360,866	Apr. 12	671	176	39	132
Ellinger, William, New York, N. Y. Apparatus for branding or marking animals.....	356,459	Jan. 25	1665	436	38	341
Ellinwood, Augustus E. (See Miller and Ellinwood.)						
Elliott, Charles, San Francisco, Cal. Purifying water for boilers.....	374,828	Dec. 13	943	246	41	1240
Elliott, Edwin G. (See Busfield, James, assignor.)						
Elliott, H. C., et al. (See Floyd, John, assignor.)						
Elliott, Robert C., assignor of part to T. A. Gillespie, Pittsburg, Pa. Drill-jar.....	359,856	Mar. 22	2141	539	38	1327
Elliott, A. J., Mason City, Iowa. Car-coupling.....	359,599	Mar. 22	1745	444	38	1255
Elliott, A. Dayton, assignor of one-half to H. F. Eaton, Viola, Ill. Hand-pump fire-engine.....	375,317	Dec. 20	1648	432	41	1382
Elliott, Alonzo, et al. (See Eastman, William H., assignor.)						
Elliott, Alvin D., Lawrence, assignor to J. W. Brooks, trustee, Cambridge, Mass. Heel-trimming machine.....	374,892	Dec. 13	1033	270	41	1258
Elliott, C. Everest, et al. (See Harding, John, Jr., assignor.)						
Elliott, Charles W., Boston, Mass. Paper box.....	359,435	Mar. 15	1459	373	38	1187
Elliott, Charles W., assignor to G. R. Elliott, Boston, Mass., W. M. Griffith, and I. W. Parmenter, New York, N. Y. Store-service apparatus.....	374,295	Dec. 6	172	44, 45	41	1079
Elliott, George S., assignor of one-half to W. H. and J. H. Leinkauf, Mobile, Ala. Automatic railway-switch.....	362,578	May 10	714	199	39	614
Elliott, George S., assignor of one-half to W. H. and J. H. Leinkauf, Mobile, Ala. Vehicle-hub.....	363,376	May 24	1834	483	39	842
Elliott, George W., Kansas City, Mo. Car-fender.....	360,516	Apr. 5	183	45	39	36
Elliott, Gilbert R., et al. (See Elliott, Charles W., assignor.)						
Elliott, James H., Montreal, Quebec, Canada. Dining-coach.....	360,424	Apr. 5	29	9	39	8
Elliott, James H., Albany, N. Y. Gaiter.....	373,062	Nov. 15	1181	316	41	707
Elliott, John A., assignor of one-half to J. B. Martin, Neosho Rapids, Kans. Railway-rail and bed-plate therefor.....	369,049	Aug. 30	2464	654	40	956
Elliott, Louis. (See Edwards and Elliott.)						
Elliott, Mathew G., assignor to Warrior Mower Company, Little Falls, N. Y. Disk-harrow.....	373,278	Nov. 15	1510	398	41	766
Elliott, Robert, et al. (See Allen, Judson, assignor.)						
Elliott, Robert C., assignor of one-half to J. W. Nebergall, Prairie Creek, Ind. Railway-gate.....	356,402	Jan. 18	1580	416	38	317
Elliott, Robert H., Memphis, Tenn. Hydraulic excavator.....	371,561	Oct. 18	1165	{ 303 304 }	{ 41 41 }	245
Elliott, Russell C., trustee. (See Howard, James H., assignor.)						
Elliott, Thomas B., Medora, Ill. Pulley stripper-block for hay-carriers.....	374,949	Dec. 20	1145	299	41	1286
Elliott, Thomas B., Medora, Ill. Automatic wagon-brake.....	374,950	Dec. 20	1146	300	41	1286
Elliott, William G. (See Grassler, William F., assignor.)						
Elliott, William P. (See Farrar and Elliott.)						
Elliott, William P., Shelbyville, Ind. Device for loosening and cutting sugar.....	365,247	June 21	1520	396	39	1386
Elliott, William P., Chicago, Ill. Gate.....	368,522	Aug. 16	1714	457	40	794
Ellis, Albert C. (See Johnston, James J., assignor.)						
Ellis, Augustin, Bedford, Ind. Mowing-machine.....	362,946	May 17	1249	332	39	719
Ellis, Benjamin F., Honey Grove, Tex. Farm-gate.....	357,275	Feb. 8	779	202	38	574
Ellis, Ferrand F., assignor to Oneida Community, (limited,) Community, N. Y. Adjustable spool-spindle for winding machines.....	362,731	May 10	942	257	39	656
Ellis, George G. (See Piland, August H., assignor.)						
Ellis, Harry S. (See Ramsden and Ellis.)						
Ellis, John, Lynn, Mass. Lubricator.....	368,283	Aug. 16	1386	366	40	730
Ellis, John D., Sheffield, county of York, England. Device for rolling ribbed plates.....	369,328	Sept. 6	26	7, 8	40	1040
Ellis, Rudolph, et al. (See Frishmuth, William, assignor.)						
Ellis, Silas C., St. Louis, Mo. Tricycle.....	361,581	Apr. 19	1694	438	39	331
Ellis, William C., Worcester, Mass. Upright-piano action.....	356,109	Jan. 18	1178	312	38	241
Ellis, William C., assignor to himself and W. F. Smelley, Rising Sun, Ind. Baling-press.....	372,901	Nov. 8	935	252	41	652
Ellis, Adolph S., New York, N. Y. Braid-trimming.....	367,339	July 26	2199	590	40	439
Ellis, Thomas, Abingdon, Ill. Fire-fender.....	374,951	Dec. 20	1147	300	41	1286
Ellithorp, Solomon B., Buffalo, N. Y. Lasting-machine.....	362,369	May 3	411	{ 114 115 116 117 }	{ 39 39 39 39 }	554
Ellithorp, Solomon B., Buffalo, N. Y. Lasting-machine.....	362,370	May 3	416	{ 116 117 117 }	{ 39 39 39 }	555
Ellithorp, Solomon B., Buffalo, N. Y. Clamp for lasting-machines.....	362,371	May 3	420	117	39	557
Ellithorp, Solomon B., Buffalo, N. Y. Cuff-holder.....	368,081	Aug. 9	1079	288	40	664
Ellsworth, John A. (See Fuller, Oscar B., assignor.)						
Ellwood, Everett C., Green's Farms, Conn. Burglar-alarm.....	364,637	June 14	607	162	39	1210
Ellwood, Everett C., Green's Farms, Conn., and F. Bateman; said Bateman assignor to E. S. & F. Bateman, Spring Mills, N. J. Feed-regulating and cut-off mechanism for seed-drills.....	373,585	Nov. 22	1987	528	41	866
Elmore, R. Palmer, Albert Lea, Minn., and J. O. Ehbets, Milwaukee, Wis.; said Ehbets assignor to said Elmore. Hand-power rock-drilling machine.....	368,658	Aug. 23	1894	505	40	837
Elsasser, Theodore, Philadelphia, Pa. Wool-packing frame.....	369,984	Sept. 13	960	{ 253 254 }	{ 40 40 }	1223
Elsdon, Robert, Brockley, county of Kent, England. Button.....	355,601	Jan. 4	395	107	38	79
Elstun, William, Thompsonville, Ill. Truss.....	373,927	Nov. 29	2472	664	41	969
Elten, Adolph H. G., Sycamore, Ill. Extension-chair.....	362,066	May 3	20	6	39	476
Elward, John H., St. Paul, Minn. Churn.....	361,150	Apr. 12	1105	280	39	210

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Elward, John H., St. Paul, Minn. Planter.....	373,226	Nov. 15	1440	{ 380 381 }	{ 41 }	754
Elward, John H., Whitewater, Wis. Engine-valve	375,144	Dec. 20	1422	371	41	1337
Elward, John H., Whitewater, Wis. Sled.....	375,145	Dec. 20	1424	371	41	1337
Elward, John H., assignor to himself and D. M. Sabin, Stillwater, Minn. Riveting-machine.....	356,033	Jan. 11	1049	{ 275 276 }	{ 38 }	212
Elwell, Morris N., Oneonta, N. Y. Feeder for grinding-mills	360,284	Mar. 29	2829	719	38	1460
Elwood, Frank, <i>et al.</i> (See Lilly, Marcine C., assignor.)						
Elwood, William H., <i>et al.</i> (See Lilly, Marcine C., assignor.)						
Ely, Edward O., Boston, Mass. Button-stapling machine	363,054	May 17	1403	371	39	749
Ely, Edward O., Boston, Mass. Button-fastening attachment	365,299	June 21	1591	{ 414 415 }	{ 39 }	1400
Ely, Edward O., Boston, Mass. Button-fastening machine	368,659	Aug. 23	1896	505	40	838
Ely, George A. (See Smith and Ely.)						
Ely, George B., St. Johnsbury, Vt. Method of and apparatus for making hoes.....	357,766	Feb. 15	1513	394	38	720
Ely, Lewellen A., Muir, Mich. Combined shelf and exhibitor	373,447	Nov. 22	1768	469	41	827
Ely, Mary C. (See Ely, Ralph, assignor.)						
Ely, Ralph, assignor to M. C. Ely, Delaware, Ohio. Fire-place blower.....	363,997	May 31	2750	713	39	1022
Elze, Christoph F., Alsleben-on-the-Saale, Prussia, Germany. Beer-cooling apparatus.....	372,134	Oct. 25	2030	520	41	419
Emack, John D., Baldwin, N. Y. Composition for making blackboards, &c	356,825	Feb. 1	112	.....	38	444
Embley, William, Jerseyville, Ill. Gripping device for cable railways.....	362,067	May 3	21	7	39	477
Emens, Charles L., Holton, Mich. Granulating and feeding device for brick-machines	360,568	Apr. 5	257	64	39	50
Emens, Charles L., Holton, Mich. Brick-machine	360,569	Apr. 5	259	64	39	50
Emerick, David, and C. A. Smith, Toledo, Ohio. Display-horse.....	365,979	July 5	317	83	40	60
Emerick, Garrett M., Brooklyn, assignor to Butler Hardware Company, New York, N. Y. } Dumb-waiter	375,146	Dec. 20	1426	{ 371 372 373 }	{ 41 }	1338
Emerson, Charles H. (See Brock, Fenelon B., assignor.)						
Emerson, Charles H., Yonkers, N. Y. Toboggan	366,083	July 5	452	122	40	85
Emerson, Charles H., Yonkers, N. Y. Coasting-toboggan	367,279	July 26	2103	568	40	421
Emerson, Charles H., Yonkers, N. Y. Coasting-toboggan.....	367,280	July 26	2107	{ 568 569 }	{ 40 }	422
Emerson, Charles H., Yonkers, N. Y., assignor to Johnson, Emerson & Co., Burlington, Vt. Toboggan	358,601	Mar. 1	281	66, 67	38	955
Emerson, Elisha, assignor to Rhode Island Copper Company, Providence, R. I. Apparatus for forming sheet metal by electro-deposition	371,256	Oct. 11	742	190	41	154
Emerson & Fisher Company. (See Ransom, Hiram W., assignor.)						
Emerson, Frank L., Brentwood, Cal. Gopher-gun	355,602	Jan. 4	396	107	38	79
Emerson, Frank L., Brentwood, Cal. Pitman	369,846	Sept. 13	741	198	40	1183
Emerson, James, Willimansett, Mass. Steam-heating-pipe connection for cars	372,303	Nov. 1	23	7	41	476
Emerson, James E. (See Garland, Michael, assignor.)						
Emerson, James E., Beaver Falls, Pa. Band-saw mill	356,930	Feb. 1	257	71	38	469
Emerson, James E., Beaver Falls, Pa. Machine for straightening and truing band-saws.....	356,931	Feb. 1	258	71	38	469
Emerson, James E., Beaver Falls, Pa. File for band-saws	358,026	Feb. 22	1855	490	38	790
Emerson, James E., Beaver Falls, Pa. Metal picket for fences	358,602	Mar. 1	283	67	38	956
Emerson, James E., Beaver Falls, Pa. Saw	358,772	Mar. 1	512	126	38	998
Emerson, James E., Beaver Falls, Pa. Reversible saw-tooth.....	368,999	Aug. 30	2394	636	40	942
Emerson, James E., Beaver Falls, Pa. Machine for straightening, tempering, and flattening band-saw blades	370,689	Sept. 27	2010	535	40	1434
Emerson, James E., and T. Midgley, Beaver Falls, Pa. Wire belting	362,576	May 10	712	198	39	614
Emerson, James E., and T. Midgley, Beaver Falls, Pa. Manufacturing wire belting	362,577	May 10	713	{ 198 199 }	{ 39 }	614
Emerson, James E., and T. Midgley, Beaver Falls, Pa. Wire belting or fabric	371,181	Oct. 11	639	163	41	134
Emerson, James E., and T. Midgley, Beaver Falls, Pa. Barbed and corrugated wire nail.....	372,844	Nov. 8	854	228	41	637
Emerson, James E., and T. Midgley, Beaver Falls, Pa. Gripping-die for corrugating and barbing wire nails	372,845	Nov. 8	854	228	41	637
Emerson, James F., <i>et al.</i> (See Tirrell, Jacob P., assignor.)						
Emerson, James F., administrator. (See Dunbar, George W., G. H., and F. B.) (Reissue.)						
Emerson, John T. (See Pierce, June A., assignor.)						
Emerson, John W., and A. C. Starbird, Apopka, Fla. Feed mechanism for saw-mill carriages	369,781	Sept. 13	637	{ 172 173 }	{ 40 }	1164
Emerson, Loender C., assignor of one-half to C. H. Nelson, North Grafton, Mass. Eyeletting-machine	368,140	Aug. 9	1155	{ 307 308 }	{ 40 }	678
Emerson, Loender C., assignor of one-half to C. H. Nelson, North Grafton, Mass. Button-setting machine.....	368,141	Aug. 9	1160	309	40	679
Emerson, Ralph, assignor of one-half to W. A. Talcott, Rockford, Ill. Straight-knitting machine	374,527	Dec. 6	510	{ 133 134 }	{ 41 }	1145
Emerson, Richard, assignor of one-half to H. H. Mason, Sycamore, Ill. Grain-binder.....	369,172	Aug. 30	2627	{ 697 698 }	{ 40 }	989
Emerson, Talcott & Company. (See Bloom, John C., assignor.)						
Emerson, Talcott & Company. (See Chapman, George, assignor.)						
Emerson, Talcott & Company. (See Jones, James H., assignor.)						
Emerson, Thomas, Newport, R. I. Boat-grip	355,983	Jan. 11	988	259	38	201
Emery, Albert H., Stamford, Conn. Micrometer-gage	361,055	Apr. 12	951	240	39	181
Emery, Albert H., Stamford, Conn. Micrometer-gage for internal and external measurements.....	361,056	Apr. 12	952	241	39	181
Emery, Albert H., Stamford, Conn. Micrometer-gage	362,149	May 3	131	39	39	499
Emery, Albert H., Stamford, Conn. Micrometer-gage	364,913	June 14	1023	268	39	1286
Emery, Charles E., Brooklyn, N. Y. Tube-expander.....	355,644	Jan. 4	473	{ 126 127 }	{ 38 }	93
Emery, Charles E., Brooklyn, N. Y. Planimeter	360,867	Apr. 12	672	176	39	132
Emery, Charles G. (See Emery, William H., assignor.)						
Emery, Charles L. L., Biddeford, Me. Invalid-bedstead	357,586	Feb. 15	1234	324	38	670
Emery, Edward C., San Diego, Cal. Insulator	375,276	Dec. 20	1592	417	41	1372
Emery, George D. (See Skanks, George W., assignor.)						
Emery, J. Henry, <i>et al.</i> (See Stetson, Charles T., assignor.)						
Emery, James P., Chicago, Ill. Refrigerator	356,226	Jan. 18	1329	351	38	270
Emery, Thomas W., and W. Spence, Minneapolis, Minn. Chimney-cap	372,017	Oct. 25	1836	475	41	386
Emery, William H., assignor to C. G. Emery, Brooklyn, N. Y. Package for cigars, cigarettes, &c.....	356,244	Jan. 18	1355	358	38	275
Emig, George, Cincinnati, Ohio. Screw-cutting die	368,462	Aug. 16	1634	436	40	779
Emigh, Gideon W., Fort Collins, Colo. Hog-cholera remedy	369,281	Aug. 30	2767	.....	40	1016
Emley, James E., assignor to W. J. Carson and T. D. Lewis, Weatherford, Tex. Apparatus for recutting files	360,517	Apr. 5	186	45	39	36

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Emmart, William M., Baltimore, Md. Soldering-machine.....	362,150	May 3	134	40	39	499
Emmel, Charles, Cambridge, Mass. Desk.....	372,135	Oct. 25	2032	521	41	420
Emmert, Jesse, Reynolds, Nebr. Bed spring-bottom.....	364,233	June 7	48	15	39	1098
Emminger, David P., Philadelphia, Pa. Joint for telegraphic wires.....	369,238	Aug. 30	2707	719	40	1005
Emmitt, John V. (See Johnson, William H., assignor.)						
Empey, William R., San José, Cal. Harness-pad.....	356,683	Jan. 25	1978	520	38	400
Empire Drill Company. (See Sheldon, Richard B., assignor.)						
Empire Folder Company. (See Tetley and Hill, assignors.)						
Empire Hydro Carbon Company. (See Smith, Hiram H., assignor.)						
Empire Machine Company. (See Blake, Edward A., assignor.)						
Emsley, John W., Philadelphia, Pa. Bicycle.....	362,500	May 10	609	172	39	596
Endemann, Hermann, Brooklyn, assignor to F. D. Newton, Queens, N. Y. Treating rat-tan.....	368,523	Aug. 16	1716	457	40	794
Endres, John J., New York, N. Y. Car-brake.....	374,044	Nov. 29	2638	707	41	1002
Engberg, Laurence. (See Holm and Engberg.)						
Engbreetsen, Lars, Christiania, Norway. Slide-valve.....	374,463	Dec. 6	421	110	41	1126
Engel, Abraham H., New York, N. Y. Box for holding ruffling.....	360,212	Mar. 29	2714	686	38	1438
Engel, Christopher, Havana, Ill. Plow.....	369,329	Sept. 6	27	8	40	1040
Engel, Fritz, Worms-on-the-Rhine, and C. Wagner, Offenbach-on-the-Main, Germany. Leather-skiving machine.....	367,709	Aug. 2	546	149	40	553
Engel, William C., Ashland, Pa. Fifth-wheel.....	365,174	June 21	1414	372	39	1367
Engelman, Harry H., Defiance, Ohio. Neck-yoke.....	374,045	Nov. 29	2639	708	41	1002
England, John E., Humansville, Mo. Bedstead.....	361,496	Apr. 19	1572	408	39	309
England, Paren, Aspen, Colo. Bottle.....	357,073	Feb. 1	467	124	38	509
England, William, Galveston, Tex. Blacking-brush.....	367,379	Aug. 2	31	8	40	457
England, William R., Chicago, Ill. Faucet or cock.....	359,246	Mar. 15	1186	309	38	1137
Engle, Andrew, Baxter, assignor of one-half to J. Callanan, Des Moines, Iowa. Burning and utilizing wet and offensive substances.....	372,304	Nov. 1	26	8	41	476
Engle, Andrew, Baxter, assignor of two-thirds to J. Callanan, Des Moines, Iowa, and J. C. Savery, New York, N. Y. Furnace for burning wet and offensive substances.....	372,305	Nov. 1	27	9, 10	41	476
Englehart, Nicholas, Columbus, Ohio. Dirt-scraper.....	356,755	Feb. 1	20	7	38	427
English, Analdo M., Boston, Mass., assignor to Pratt Manufacturing Company, Portland, Me. Machine for attaching buttons.....	358,342	Feb. 22	2304	{ 609 610 }	{ 38 }	874
English, Analdo M., Boston, Mass., assignor to Pratt Manufacturing Company, Portland, Me. Machine for making button-fasteners.....	360,004	Mar. 29	2370	{ 598 599 600 }	{ 38 }	1376
English, Andrew J., and J. Stubbers, assignors to said English and P. Crosley, Cincinnati, Ohio. Gas-machine.....	368,660	Aug. 23	1898	506	40	838
English Bros. (See Smith, Frederick H., assignor.)						
English, Edward B., et al. (See Field, William, assignor.)						
English, Franklin J. (See Cromwell, William, assignor.)						
English, Peter. (See Langlais and English.)						
English, Thomas, Hawley, near Dartford, county of Kent, England. Car-truck.....	372,608	Nov. 1	475	{ 127 128 129 }	{ 41 }	559
Enjalbert, Theophile E., Paris, France. Type-writing machine.....	369,401	Sept. 6	127	37	40	1056
Enloe, Thomas E., et al. (See Stonestreet, George D., assignor.)						
Ennis, George H. (See Bord and Ennis.)						
Ennis, Henry J., Washington, D. C. Automatic vending-machine.....	371,829	Oct. 18	1555	{ 401 402 }	{ 41 }	325
Ennis, Henry J., assignor to F. H. Finley, and R. Callahan, Washington, D. C., H. Gran-ger, Rochester, and H. M. Butler, New York, N. Y. Automatic vending apparatus.....	365,912	July 5	220	57	40	42
Enos Electric Railway Supply Company. (See Hamilton, Benjamin F., assignor.)						
Enright, James, Bordentown, N. J. Machine for making sheet-metal cleats.....	359,066	Mar. 8	943	241	38	1084
Enright, Michael J., et al. (See Arthur, Joseph A., assignor.)						
Ensley, Martin V., McMinnville, Oreg. Churn.....	368,708	Aug. 23	1978	525	40	853
Enterprise Manufacturing Company. (See Shaw, Noah T., assignor.)						
Entrekin, William G., Philadelphia, Pa. Photographic burnishing-machine.....	355,922	Jan. 11	890	233	38	181
Entrekin, William G., Philadelphia, Pa. Photograph-burnishing machine.....	355,923	Jan. 11	891	233	38	181
Entrekin, William G., Philadelphia, Pa. Photographic burnishing-machine.....	357,954	Feb. 15	1752	457	38	766
Entwisle, Edward B., Johnstown, Pa., assignor to Johnson Steel Street Rail Company, of Kentucky. Rail-chair for street-car rails.....	364,996	June 14	1145	300	39	1309
Entwisle, Edward B., Johnstown, Pa., assignor to Johnson Steel Street Rail Company, of Kentucky. Girder-slot-rail crossing.....	367,746	Aug. 2	596	{ 161 162 }	{ 40 }	563
Entwisle, Edward B., Johnstown, Pa., assignor to Johnson Steel Street Rail Company, of Kentucky. Die for making railway-chairs.....	368,142	Aug. 9	1162	{ 309 310 }	{ 40 }	680
Entwistle & Co., T. C. (See Durgin, Albion L., assignor.)						
Entwistle, Thomas C., Lowell, Mass. Stop-motion mechanism for spoolers and winders...	360,868	Apr. 12	674	{ 176 177 }	{ 39 }	132
Entz, Justus B., New York, N. Y. Electric gas-lighter.....	374,528	Dec. 6	513	135	41	1145
Enyart, Edwin S., Ottawa, Ill. Electric signal for weighing-scales.....	361,275	Apr. 19	1279	328	39	254
Eppelsheimer, Henry, New York, N. Y., assignor of one-half to F. W. Schultz, Baltimore, Md. Means for obtaining access to fires in buildings.....	369,636	Sept. 6	452	126	40	1121
Epperly, Belle, Lamar, Mo., assignor of one-third to M. W. Tucker. Corset.....	367,747	Aug. 2	597	162	40	563
Epperson, John W., Blandinsville, Ill. Wagon-jack.....	369,330	Sept. 6	28	8	40	1040
Eppert, Alfred A., Amelia, Ohio. Mail-bag.....	374,735	Dec. 13	808	212	41	1214
Epping, Henry, Pittsburg, Pa., assignor of four-fifths to W. H. Carpenter, E. Frauenheim, L. Villsack, and H. Kaber. Crucible-furnace.....	356,061	Jan. 11	1088	286	38	219
Eppley, Samuel, Union Bridge, Md. Roller cider-press.....	371,131	Oct. 4	568	144	41	112
Erb, Fred, Jr., Lafayette, Ind. Flying target.....	356,354	Jan. 18	1515	398	38	305
Erbe, Barthel, Pittsburg, Pa. Wire-stretcher.....	359,600	Mar. 22	1746	444	38	1255
Erbe, Barthel, Pittsburg, Pa. Wire-stretcher.....	373,518	Nov. 22	1898	503	41	851
Erbe, Gustav, et al. (See Robbin, Fred, assignor.)						
Erhardt, Herrmann, Boston, Mass. Electric locomotive.....	356,579	Jan. 25	1835	{ 480 481 }	{ 38 }	372
Erickson, Olof. (See Nelson, Andrew J., assignor.)						
Ericson, Charles J., Salt Lake City, Utah Ter. Grain-winnower.....	357,525	Feb. 8	1129	295	38	641
Ericsson, John, New York, N. Y. Steam-engine.....	374,354	Dec. 6	265	70, 71	41	1097
Erikson, Andrew. (See Forssell, Erik H., assignor.)						
Erikson, Carl J., Rockford, Ill. Trap.....	365,058	June 21	1244	327	39	1337
Erling, Peter R., Chicago, Ill. Animal-trap.....	358,924	Mar. 8	758	189	38	1049
Ernst, John, Bay City, Mich. Vise.....	368,575	Aug. 23	1792	477	40	817
Ernst, John, Bay City, Mich. Vise.....	370,937	Oct. 4	296	72	41	59
Ernst, Maximilian, Cleveland, Ohio. Bellows-package for distributing powder.....	366,942	July 19	1630	436	40	324

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Erskine, Annie, administratrix. (See Erskine, John W.)						
Erskine, Harlo L., Washington, D. C. Hand-stamp	357,587	Feb. 15	1234	325	38	671
Erskine, James L., Hoboken, N. J. Shaving-brush	357,983	Feb. 15	1801	472	38	775
Erskine, John W., deceased, A. Erskine, Chester, Pa., administratrix. Compound belt-shifter, oiler, and shaft-cleaner	367,900	Aug. 9	823	221	40	617
Ertel, George, Quincy, Ill. Baling-press	362,884	May 10	1157	310	39	695
Ertz, Joseph M., Poughkeepsie, N. Y. Car-starter	359,013	Mar. 8	879	224	38	1071
Erwin, John F., Greensborough, N. C. Tobacco-stick	355,759	Jan. 11	641	167	38	135
Erwin, L. Clayton, assignor of one-half to C P Young and J H. Thomas, York, Pa. Harness	369,282	Aug. 30	2767	738	40	1016
Erwin, Lewis C., York, Pa. Cultivator and pulverizer	361,866	Apr. 26	2124	550	39	418
Erwin, Thomas J., Union Church, Miss. Plow	357,526	Feb. 8	1130	296	38	641
Escott, Walter N. (See Kremets, Joseph, assignor.)						
Eske, Albert, Chicago, Ill. Display-stand	373,729	Nov. 22	2191	586	41	909
Eskew, Samuel T., Sugar Valley, Ga. Evaporator for sugar-making purposes	362,068	May 3	22	7	39	477
Esplin, Charles, Minneapolis, Minn. Shaft-hanger	366,656	July 19	1248	334	40	254
Espy, Josiah, Xenia, Ohio. Gun-cleaner	366,470	July 12	964	262	40	192
Essex, Henry, Meadville, Pa. Gearing	374,146	Nov. 29	2789	749	41	1031
Essex Horse Nail Company. (See Woodford, Henry E., assignor.)						
Essex, Jeremiah, deceased, Bennington, Vt., (J. W. Essex, administrator,) and A. Ball, Claremont, N. H. Bobbin or cop-tube	363,323	May 17	1766	463	39	819
Essex, John W., administrator. (See Essex and Ball.)						
Essick, Samuel V., Alliance, Ohio. Printing-telegraph	365,059	June 21	1245	{ 327 328 329 }	{ 39 }	1337
Essig, William P., McDonaldsville, Ohio. Conveyer for grain-binders	359,247	Mar. 15	1187	309	38	1137
Establie, Pierre E., Paris, France. Vessel for preserving meats, &c	370,250	Sept. 20	1348	{ 360 361 }	{ 40 }	1303
Estabrook, Horace, Paterson, N. J. Railway weighing-scale	374,665	Dec. 13	712	187	41	1195
Estcourt, Frederick E., et al. (See Brown, Jacob, assignor.)						
Estes, John W., Dixon, Mo. Combination-lock	369,331	Sept. 6	28	8	40	1040
Estes, Payton W., assignor of one-half to E. Bierer, Hiawatha, Kans. Gate	368,661	Aug. 23	1902	506	40	839
Estey Organ Company. (See Fuller, Levi K., assignor.)						
Estey, W. Shepard. (See Oliver, Ebenezer, assignor.)						
Estlow, Francis R., Barnegat, N. J. Turbine water-wheel	355,391	Jan. 4	131	35	38	27
Estlow, Francis R., Barnegat, N. J. Motor mechanism for cars	361,354	Apr. 19	1386	357	39	273
Estlow, Francis R., Barnegat, N. J. Device for changing reciprocating into rotary motion	367,281	July 26	2111	569	40	422
Esty, Ezra B. (See Stanhope and Esty.)						
Esty, William, Laconia, N. H. Knitting stockings	362,434	May 3	503	142	39	573
Esty, William, Laconia, N. H. Knitting-machine	371,562	Oct. 18	1166	304	41	245
Esty, William, Laconia, N. H. Knitting-machine	371,563	Oct. 18	1167	304	41	246
Esty, William, Laconia, N. H. Yarn-carrier for knitting-machines	371,564	Oct. 18	1169	{ 304 305 }	{ 41 }	246
Esty, William, Laconia, N. H. Widened tubular knit fabric and knitting the same	371,565	Oct. 18	1171	305	41	246
Esty, William, Laconia, N. H. Widened tubular knit fabric	371,566	Oct. 18	1172	305	41	247
Esty, William, Laconia, N. H. Knitting-machine	371,567	Oct. 18	1174	{ 305 306 }	{ 41 }	247
Esty, William, assignor of two-thirds to L. F. Busiel, Laconia, and G. W. Sherwell, Lake Village, N. H. Steam-engine	355,814	Jan. 11	724	189	38	149
Esty, William, assignor of two-thirds to L. F. Busiel, Laconia, and G. W. Sherwell, Lake Village, N. H. Steam-engine	367,029	July 26	1740	469	40	353
Etheridge, Ernest L. (See Sullivan and Etheridge.)						
Ethridge, Frank N. (See Ethridge, Martin R. and F. N.)						
Ethridge, Martin R. and F. N., Lynn, Mass.; said F. N. Ethridge assignor to Martin R. Etheridge. Tack-driving machine	360,147	Mar. 29	2622	664	38	1421
Ethridge, Martin V. B., Boston, assignor of one-half to H. E. Waite, West Newton, Mass. Attaching heels to boots or shoes	364,755	June 14	787	208	39	1243
Ethridge, Martin V. B., Boston, and H. E. Waite, West Newton, Mass., assignors of one-third to J. Swann, New York, N. Y. Clock striking mechanism	373,771	Nov. 22	2251	{ 603 604 }	{ 41 }	919
Ethridge, William S., Paluxy, Tex. Folding ladder	375,482	Dec. 27	1868	488	41	1434
Etienne, Louis, Paris, France. Pipe-coupling	372,790	Nov. 8	762	205	41	621
Etly, David J., et al. (See Heinig, Frederick E., assignor.)						
Etnier, David, Jr., Mount Union, Pa. Grain-scourer	360,670	Apr. 5	393	100	39	74
Etter, Jacob R., Crawfordsville, Ind. Instrument for transmitting audible time-signals	357,310	Feb. 8	827	215	38	583
Etter, Samuel P., Cedartown, Ga. Wire fence	358,852	Mar. 8	647	160	38	1028
Euans, Martin V. B., Circleville, Ohio. Sash-holder	374,867	Dec. 13	997	260	41	1250
Eubank, Katie W., Rutherford, Cal. Combined trunk and bureau	369,000	Aug. 30	2395	636	40	942
Eulass, Thomas H., Mason City, Ill. Folding table	362,825	May 10	1074	291	39	680
Eulass, Thomas H., Mason City, Ill. Clothes-rack	365,060	June 21	1251	329	39	1338
Euphrat, Frederic, Boston, Mass. Conduit for electric railways	368,576	Aug. 23	1793	477	40	818
Eureka Light Manufacturing Company. (See Huber, Louis C., assignor.)						
Eureka Manufacturing Company. (See Stevens, James S., assignor.)						
Eureka Spindle Company. (See Chapman, Charles H., assignor.)						
Eureka Spund Apparatus Company. (See Warren, Marion, assignor.)						
Eureka Telephone Company. (See Eastman, William H., assignor.)						
Eureka Telephone Company. (See Eastman and Adams, assignors.)						
Eustice, Daniel L. (See Chapman and Eustice.)						
Evans, Austin C., Springfield, Ohio. Corn-planter	361,214	Apr. 12	1196	{ 303 304 }	{ 39 }	226
Evans, Austin C., Springfield, Ohio. Harrow	366,160	July 5	554	149	40	104
Evans, Austin C., Springfield, Ohio. Seeding-machine	370,611	Sept. 27	1898	504	40	1413
Evans, Edward, Chillicothe, Ohio. Locomotive ash-pan	359,923	Mar. 22	2238	563	38	1345
Evans, Edward, Quincy, Ill. Stove-lid pattern	374,147	Nov. 29	2789	749	41	1031
Evans, Edwin W. (See Haag and Evans.)						
Evans, Elmer, et al. (See Hawley, William S., assignor.)						
Evans, Eugene E., Crystal Springs, Miss. Fruit-gatherer	363,220	May 17	1631	428	39	794
Evans, Frank W., assignor of one-half to J. M. Carter, Newburyport, Mass. Jewel or toilet-set box	371,182	Oct. 11	640	{ 163 164 }	{ 41 }	134
Evans, Fred W. (See Adams, Elmon A., assignor.)						
Evans, Frederic H., Brooklyn, N. Y. Dump-cart	371,743	Oct. 18	1432	370	41	300
Evans, G. Frank, Somerville, Mass. Device for transmitting motion	374,296	Dec. 6	174	45	41	1080
Evans, George, New York, N. Y. Artificial tooth-crown	373,346	Nov. 15	1609	424	41	785
Evans, George, New York, N. Y. Manufacture of artificial tooth-crowns	373,347	Nov. 15	1609	425	41	785
Evans, George, New York, N. Y. Manufacture of artificial tooth-crowns	373,348	Nov. 15	1610	425	41	785

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Evans, George W., West Union, W. Va. Tread-power	371,830	Oct. 18	1558	{ 402 403	{ 41	325
Evans, Hammond P. (See Allyn and Evans.)						
Evans, Henry A., Marshall, Tex. Roller cotton-press	366,943	July 19	1630	{ 436 437	{ 40	325
Evans, Irving A. (See Goodwin, John M., assignor.)						
Evans, John. (See Pearce, John R., assignor.)						
Evans, John, Philadelphia, Pa. Furnace	366,657	July 19	1249	334	40	254
Evans, John A., and L. A. Teagle, Richmond, Ind. Sash-operator for greenhouses	371,132	Oct. 4	569	145	41	113
Evans, John W., Cleveland, Ohio. Treating cotton-seed	360,768	Apr. 5	527	.....	39	99
Evans, Jonathan, <i>et al.</i> (See Koelkebeck, Charles W. A., assignor.)						
Evans, Jonathan, Philadelphia, Pa., assignor of one-half to D. H. Burrell, Little Falls, N. Y. Centrifugal separator	360,342	Mar. 29	2897	738	38	1473
Evans, Lewis J., Brooklyn, N. Y. Check-book, &c	371,440	Oct. 11	999	260	41	203
Evans, Lyman H. (See Woodman and Evans.)						
Evans, Michael P., Chicago, Ill. Album	359,670	Mar. 22	1834	466	38	1272
Evans, Priscilla. (See Evans, William J., assignor.)						
Evans, Quimby N., Brooklyn, N. Y. Elevator-indicator	360,518	Apr. 5	187	45	39	37
Evans, S. W., Jr. (See Glenn, Edmund L., assignor.)						
Evans, Samuel, and T. J. Davis, Joliet, Pa. Elevator-indicator	368,822	Aug. 23	2137	566	40	883
Evans, Samuel W., Jr., Philadelphia, Pa. Retainer for umbrella or parasol runners	363,615	May 24	2197	569	39	912
Evans, Thomas, Providence, R. I. Compound grate-bar	361,215	Apr. 12	1198	304	39	227
Evans, Thomas, assignor of one-half to M. Feigel, New York, N. Y. Portable elevator	363,616	May 24	2198	569	39	912
Evans, Thomas S., and E. H. Bissett, Winnipeg, Manitoba, Canada. Machine for flatten- ing the crimps of stove-pipe elbows	358,390	Feb. 22	2372	{ 630 631	{ 38	887
Evans, Thomas S., and F. R. Jackes, Winnipeg, Manitoba, Canada. Knife-cleaning ma- chine	362,261	May 3	271	75, 76	39	526
Evans, W. Warrington, Washington, D. C. Telegraphic transmitter	372,846	Nov. 8	855	{ 228 229	{ 41	637
Evans, W. Warrington, Washington, D. C. Type-writing machine	374,047	Nov. 29	2644	{ 709 710	{ 41	1003
Evans, W. Warrington, Washington, D. C. Printing-surface	374,048	Nov. 29	2648	710	41	1004
Evans, W. Warrington, assignor to E. F. and T. L. Riggs, A. T. Brice, J. A. Baker, and H. A. Smith, Washington, D. C. Type-writing machine	374,046	Nov. 29	2640	{ 708 709	{ 41	1002
Evans, Warren C., and J. P. Smith, Exeter, N. H. Nailing-machine	367,282	July 26	2112	{ 569 570	{ 40	422
Evans, William, Providence, R. I. Cross-weaving mechanism	364,402	June 7	265	75, 76	39	1139
Evans, William, Philadelphia, Pa. Attachment for drilling-machines	374,181	Dec. 6	26	6	41	1051
Evans, William J., assignor to P. Evans, Granville, N. Y. Car-coupling	368,914	Aug. 23	2270	603	40	909
Evans, William L., Jr., Loogootee, Ind. Hay rake and loader	375,444	Dec. 27	1818	{ 475 476	{ 41	1424
Evans, William S., Clyde, Ohio. Bulletin-board	356,062	Jan. 11	1089	287	38	219
Evarts, Charles A., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Shade-ring, &c	372,211	Oct. 25	2139	549	41	441
Evarts, Charles A., and E. Fisher, assignors to Bradley & Hubbard Manufacturing Com- pany, Meriden, Conn. Suspension device	369,509	Sept. 6	265	74	40	1084
Evarts, Edward S., <i>et al.</i> (See Hill, Christian C., assignor.)						
Evarts, John A., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Suspension device	365,335	June 21	1642	428	39	1410
Evatt, Edward L., La Grangeville, N. Y. Toy blow-gun	370,532	Sept. 27	1774	473	40	1389
Eve, Emma H., Lockhart, Tex. Artificial fruit, foliage, and flowers	363,736	May 24	2369	615	39	944
Evelyn, George P., Pall Mall, county of Middlesex, England. Spirit-level	363,998	May 31	2750	713	39	1022
Evered & Company. (See Baker, Francis R., assignor.)						
Evered & Company. (See Walker, Henry A., assignor.)						
Everett, Edward H., Newark, Ohio. Jar-grinding machine	368,200	Aug. 16	1251	334	40	704
Everett, George W., New York, N. Y. Weather-strip for windows	360,801	Apr. 5	569	148	39	107
Everett, John H. D., St. Ignace, Mich. Metallic hame-fastener	356,628	Jan. 25	1913	502	38	387
Everett, Samuel H., Macedon, N. Y. Fertilizer-distributor	357,376	Feb. 8	908	239	38	599
Everett, Samuel H., Macedon, N. Y. Fertilizer-distributor	371,881	Oct. 18	1643	424	41	341
Everett, Thomas B. (See McLeod, Roderick A., assignor.)						
Everingham, Francis M., Syracuse, N. Y. Harrow	357,377	Feb. 8	910	240	38	600
Everingham, Francis M., assignor of one-fourth to N. H. Strong, Syracuse, N. Y. Road- scraper	360,380	Mar. 29	2960	751	38	1483
Everitt, Percival, London, England. Checking apparatus	359,924	Mar. 22	2239	{ 563 564	{ 38	1345
Everitt, Percival, London, England. Scarf	369,308	Aug. 30	2811	750	40	1026
Everitt, Percival, London, England. Apparatus for the delivery of a given quantity of liquid in exchange for a coin	371,257	Oct. 11	743	{ 190 191	{ 41	154
Everitt, Percival, London, England. Water or other closet, lavatory, &c	373,135	Nov. 15	1287	{ 342 343	{ 41	726
Everitt, Percival, London, England. Coin-operated machine for testing muscular power ..	374,049	Nov. 29	2649	{ 710 711	{ 41	1004
Everitt, Percival, London, England. Coin-operated apparatus for indicating the force of a blow	374,050	Nov. 29	2651	{ 711 712	{ 41	1004
Everitt, Percival, London, England. Coin-operated lock	374,785	Dec. 13	880	230	41	1228
Everitt, Percival, London, England, assignor to Automatic Selling Machine Company, of New York. Automatic vending apparatus	374,297	Dec. 6	176	{ 45 46 47	{ 41	1080
Everitt, Percival, London, England, and D. H. W. J. O. Neale, New York, N. Y. Brake ..	374,786	Dec. 13	881	231	41	1228
Everson, John Q., Pittsburg, Pa. Reversing rolling-mill	372,747	Nov. 8	683	{ 188 189	{ 41	608
Evetts, Thomas F., Leon Junction, Tex. Bobbin-winder for sewing-machines	368,760	Aug. 23	2054	544	40	868
Evrard, Alfred, Paris, France, assignor to Compagnie Anonyme des Forges de Chatillon et Commentry. Eclipsing gun and armored well for the same	359,966	Mar. 22	2312	{ 581 582	{ 38	1358
Ewart Manufacturing Company. (See Dodge, James M., assignor.)						
Ewart Manufacturing Company. (See Ewart, William D., assignor.)						
Ewart, William D., Chicago, Ill. Chain	374,148	Nov. 29	2790	749	41	1031
Ewart, William D., assignor to Ewart Manufacturing Company, Chicago, Ill. Chain cable ..	363,288	May 17	1717	450	39	811
Ewart, William D., Chicago, Ill., assignor to Ewart Manufacturing Company, of Illinois. Testing chains	371,744	Oct. 18	1433	371	41	300
Ewart, William D., Chicago, Ill., assignor to Ewart Manufacturing Company, of Illinois. Testing chains	371,745	Oct. 18	1434	371	41	300
Ewart, William D., Chicago, Ill., assignor to Ewart Manufacturing Company, of Illinois. Testing-chains	372,609	Nov. 1	476	129	41	560

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Ewer, William H. (See Phillips, William, assignor.)						
Ewers, E. P. (See Eddy, John G., assignor.)						
Ewert, Otto, assignor of one-half to A. Deutschel, Cleveland, Ohio. Vapor-burner	361,934	Apr. 26	2214	575	39	436
Ewig, John, assignor to J. L. Heiskell, Washington, D. C. Button and button-fastening ..	375,698	Dec. 27	2161	567	41	1491
Ewig, John, assignor to J. L. Heiskell, Washington, D. C. Garment clasp or fastener ..	375,699	Dec. 27	2182	567	41	1491
Ewing, Alvan B., Lewisburg, Tenn. Wheel	357,120	Feb. 1	557	144	38	524
Ewing, Alvan B., Lewisburg, Tenn. Pin-support and link-adjuster for car-couplings	370,184	Sept. 20	1266	336	40	1288
Ewing, Andrew S., and J. H. Heitmann, Lewisburg, Tenn. Gravity-latch	355,645	Jan. 4	476	127	38	94
Ewing, Rufus L., McCleary, Pa. Apparatus for raising dough	367,201	July 26	1982	535	40	399
Ewing, William H., Port Royal, Pa., assignor of one-half to D. McGarry and J. B. Zerbe, Cleveland, Ohio. Dumping mechanism for hoisting apparatus	371,568	Oct. 18	1176	306	41	247
Eynon, William, and J. T. Davis, assignors to Diamond State Iron Company, Wilmington, Del. Manufacturing horseshoe-bars	367,380	Aug. 2	32	8	40	457
Eyster, Cyrus, and J. Bugh, Holcomb, Ill. Harvesting-machine	367,381	Aug. 2	32	9	40	457
Excelsior Furniture Company. (See Abramson, Alfred C., assignor.)						
Excelsior Iron Works. (See Hewes, Lester W., assignor.)						
Excelsior Novelty Company. (See Stoddard, Oscar, assignor.)						
Exley, Henry, Franklin, Mass. Frictional driving-gear	364,997	June 14	1145	300	39	1309
Exley, Robert, Philadelphia, Pa. Water-sprinkler	375,445	Dec. 27	1822	476	41	1425
Exner, William, Harper's Ferry, assignor of one-half to C. H. Wolfes, Martinsburg, W. Va. Cut-off and spout	362,917	May 10	1206	323	39	705
Ezell, Francis L., Nashville, Tenn. Vehicle-spring	371,495	Oct. 11	1070	279	41	218
Ezell, John S., Woodruff's, S. C. Insect-catching attachment for lamps	356,629	Jan. 25	1914	502	38	388
Ezell, John S., Woodruff's, and S. B. Ezell, Spartanburg, S. C. Insect-trap	372,257	Oct. 25	2207	565	41	455
Ezell, Samuel B. (See Ezell, John S. and S. B.)						
Faas, Rudolph, assignor to Standard Car Axle Lubricator Company, Chicago, Ill. Car-axle lubricator	371,258	Oct. 11	745	191	41	154
Faas, Rudolph, assignor to Standard Car Axle Lubricator Company, Chicago, Ill. Car-axle lubricator	375,700	Dec. 27	2183	568	41	1491
Faasen, Elizabeth, New Orleans, La. Sunshade-handle	370,459	Sept. 27	1659	442	40	1369
Faatz, Charles W., and V. A. Calkins, Scranton, Pa. Device for sealing jars	372,212	Oct. 25	2140	549	41	441
Faber, Eberhard. (See Mussinan, Oscar, Jr., assignor.)						
Faber, Eberhard. (See Schrag, Philip, assignor.)						
Fabric Fire Hose Company. (See Gillespie, James E., assignor.)						
Fabric Measuring and Packaging Company. (See Sutton, Andrew H., assignor.)						
Fabrique, Charles M. (See Davis, Gouverneur M., assignor.)						
Fackrell, H. Walter, Belleville, N. J. Head-rest for car-seats	365,248	June 21	1521	{ 396 397 }	{ 39 39 }	{ 1387 883 }
Fadum, Louis, Baltimore, Md. Meat-cutting machine	363,512	May 24	2044	532	39	883
Fagan, Barney, <i>et al.</i> (See Curry, John, assignor.)						
Fagley, Oliver M. (See Shinn and Fagley.)						
Fahey, Michael S., Brewer, Me. Wind-propeller	372,368	Nov. 1	127	38	41	494
Fahnestock, John, Brooklyn, assignor to J. M. Hawkes, New York, and J. H. Ferguson, Brooklyn, N. Y. Metallic printing-block for electrotype and stereotype plates	356,993	Feb. 1	348	92, 93	38	487
Faile, Charles V. (See Chilton, Franklin H., assignor.)						
Faile, Charles V. (See Chilton, William W., assignor.)						
Fairbairn, Charles, Maybank, Clarendon Road, Sale, county of Chester, England. Machine for rolling projectiles	365,980	July 5	318	84	40	60
Fairbanks, Albert C., Boston, Mass. Banjo	360,005	Mar. 29	2376	600	38	1376
Fairbanks, Crawford M., Lincoln, R. I. Making files	365,249	June 21	1523	397	39	1387
Fairbanks, Crawford M., Lincoln, R. I. Machine for cutting files	367,382	Aug. 2	34	9, 10	40	457
Fairbanks, Crawford M., Lincoln, R. I. File	371,184	Oct. 11	641	.....	41	134
Fairbanks, Crawford M., Lincoln, R. I. Machine for cutting the edges of flat files	374,051	Nov. 29	2653	712	41	1005
Fairbanks, Henry, St. Johnsbury, Vt. Machine for the manufacture of pulpware	364,096	May 31	2879	747	39	1048
Fairbanks, Henry, St. Johnsbury, Vt., assignor to Feed Water Heater Company, Portland, Me. Feed-water heater	371,048	Oct. 4	457	115	41	90
Fairbanks, Henry B. (See Miller, Isaac, assignor.)						
Fairbanks, Herbert H., and W. H. Coughlin, assignors to Worcester Electric Light Company, Worcester, Mass. Supporting-frame for electric lamps	356,580	Jan. 25	1836	481	38	373
Fairbanks, Horace, <i>et al.</i> (See Whitney, Edwin R., assignor.)						
Fairbanks, Horatio W., Atlanta, Ga. Dust-trunk cleaner for cotton-openers	365,175	June 21	1415	373	39	1367
Fairbanks, Thaddeus, assignor to Feed Water Heater Company, St. Johnsbury, Vt. Water-heater	361,003	Apr. 12	883	223	39	167
Fairbanks, William P., <i>et al.</i> (See Whitney, Edwin R., assignor.)						
Fairchild, Ben L., <i>et al.</i> (See Reeves, Peter B., assignor.)						
Fairchild, Charles B., <i>et al.</i> (See Noyes, Joseph P., assignor.)						
Fairchild, Charles G., Oberlin, Ohio. Gas-holder	357,276	Feb. 8	779	202	38	574
Fairchild, Frank L., Mount Vernon, Ohio. Fence-post	356,995	Feb. 1	351	93	38	488
Fairchild, Frank L., Mount Vernon, Ohio. Fence-post	361,497	Apr. 19	1572	408	39	309
Fairchild, Frank L., Mount Vernon, Ohio. Fence-post and base	362,435	May 3	505	142	39	573
Fairchild, Frank L., Mount Vernon, Ohio. Fence-post	362,436	May 3	506	143	39	573
Fairchild, Frank L., Mount Vernon, Ohio. Fence-post and base	362,437	May 3	508	143	39	573
Fairchild, Le Roy W., New York, N. Y. Cigar-perforator	367,800	Aug. 9	683	185	40	588
Fairchild, Nelson D., Du Bois, Pa. Washing-machine	362,372	May 3	421	117	39	557
Fairfield, George A., Hartford, Conn., assignor to American Writing Machine Company, New York, N. Y. Type-writing machine	366,084	July 5	453	123	40	85
Fairfield Rubber Company. (See Hawley, Theodore, assignor.)						
Fairman, James, New York, N. Y. Apparatus for aerial photography	367,610	Aug. 2	368	104	40	522
Faith, Samuel. (See Natter, Jacob, assignor.)						
Falardeau, Dennis L., Cohoes, N. Y. Coal and ash sifter	370,185	Sept. 20	1267	336	40	1288
Falcetti, John. (See Meyer, Falcetti, and Harder.)						
Falcon, Joseph G., Chicago, Ill. Pneumatic apparatus for cleaning strainers of submerged } cribs	374,952	Dec. 20	1148	{ 300 301 }	{ 41 41 }	{ 1286 1286 }
Fales, Amos, Rockfall, Conn. Carpenter's gage	365,804	July 5	65	19	40	14
Fales, Eben C., Foxborough, Mass. Temporary binder	359,141	Mar. 8	1038	270	38	1102
Fales & Jenks Machine Company, <i>et al.</i> (See Jenks, Alvin F., assignor.)						
Falk, Max. (See Seck and Falk.)						
Falk, Theodore, Chicago, Ill. Metallic piston-rod packing	371,309	Oct. 11	814	208	41	167
Fall Mountain Paper Company. (See Smith, Richard, assignor.)						
Fallgatter, John A., Huron, Dak. Ter. Fire-escape	375,701	Dec. 27	2184	568	41	1492
Fallis, George T., St. Joseph, Mo. Automatic elevator-gate	358,654	Mar. 1	350	84	38	968
Fallis, George T., St. Joseph, Mo. Device for unbuttoning shoes, &c.	361,151	Apr. 12	1107	280	39	210
Fallon, John F., St. Louis, Mo. Carriage-door	372,847	Nov. 8	857	229	41	637
Fallon, John F., St. Louis, Mo. Gear-iron for carriages	373,227	Nov. 15	1445	381	41	754

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Falls, Alonzo, assignor to himself and A. G. Cumnock, Lowell, Mass. Top-flat-stripping mechanism for carding-machines	365,250	June 21	1523	{ 397 398 }	{ 39	1387
Falls, Alonzo, assignor of one-half to A. G. Cumnock, Lowell, Mass. Mechanism for stripping the top-flats of carding-engines	369,444	Sept. 6	184	52, 53	40	1067
Falls Rivet Company. (See Babcock, Erskine L., assignor.)						
Falls Rivet Company. (See Slayton, George A., assignor.)						
Fanebust, Iver N., Lee, Ill. Two-wheeled vehicle	356,110	Jan. 18	1180	312	38	242
Faneuff, Augustus, Troy, N. Y. Car-brake	369,847	Sept. 13	741	198	40	1184
Fanning, David H. (See Bray, Morris P., assignor.)						
Fanning, David H., Worcester, Mass. Corset	366,658	July 19	1250	334	40	254
Fanning, James, Salem, Mass. Combined wardrobe-hook and shade-fixture	367,202	July 26	1983	536	40	399
Fanning, John T., Minneapolis, Minn. Door and jamb	358,027	Feb. 22	1855	491	38	790
Fanning, John T., Minneapolis, Minn. Partition or beam	371,931	Oct. 25	1717	444	41	364
Faraday Electric Cable Company. (See Jaques, John T., assignor.)						
Farbaky, Stefan, and S. Schenek, Schemnitz, Austria-Hungary. Positive-pole plate for secondary batteries or accumulators	359,248	Mar. 15	1188	310	38	1137
Farbenfabriken, vormals Friedr. Bayer & Co. (See Bayer, Friedrich, assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Dinsberg, Carl, assignor.)						
Farhwerke, vormals Meister, Lucius & Brüning. (See Ullrich, Eduard, assignor.)						
Fardy, John A., Brooklyn, N. Y. Gas-meter	355,516	Jan. 4	285	76	38	57
Farel, James H., Buffalo, N. Y. Trunk	358,737	Mar. 1	466	114	38	990
Fargo, Frank B., Lake Mills, Wis. Cream-testing churn	369,782	Sept. 13	639	173	40	1164
Fargo, Frank M., Chicago, Ill. Felt boot	371,746	Oct. 18	1435	371	41	301
Fargue, Robert H., Brooklyn, N. Y. Truss	371,441	Oct. 11	1000	260	41	203
Farias, Heraclio, Guadalajara, Jalisco, Mexico. Cigar	368,463	Aug. 16	1635	437	40	779
Farias, Heraclio, Guadalajara, Jalisco, Mexico. Manufacturing tobacco for cigars	368,464	Aug. 16	1636	437	40	779
Farley, Cyrus H., Portland, Me. Eyeglasses	373,349	Nov. 15	1613	425	41	785
Farley, Cyrus H., Portland, Me. Eyeglasses	373,350	Nov. 15	1614	426	41	786
Farley, Frank, Washington, Kans. Atmospheric churn	362,373	May 3	423	118	39	557
Farlin, Dudley. (See Browne, James F., assignor.)						
Farmer, Edward H., Gilroy, Cal. Vise	362,262	May 3	272	76	39	526
Farmer, Henry, Richmond, Ind. Fence-machine	358,441	Mar. 1	26	8	38	908
Farmer, James, Salford, county of Lancaster, England. Machine for measuring and marking cloth	355,517	Jan. 4	286	76	38	57
Farmer, James C., Providence, R. I., and C. A. Shaw, Boston, Mass. Car-signal	373,063	Nov. 15	1182	316	41	707
Farmer, Luther C., assignor of one-half to M. Van Normann and H. L. Egell, Minneapolis, Minn. Double-acting force-pump	374,400	Dec. 6	324	85	41	1107
Farmer, Moses G., Eliot, Me. Method of and apparatus for signaling through submarine cables	361,498	Apr. 19	1574	409	39	309
Farmer, Thomas, Oil City, Pa. Car-coupling	364,914	June 14	1024	268	39	1287
Farmer, Thomas, J. A. F. Bovard, and F. D. Moon, Oil City, assignors of part to J. B. Sipe and W. M. Gibbs, Allegheny, Pa. Car-coupling	372,610	Nov. 1	479	130	41	560
Farmers Friend Manufacturing Company. (See Stoddard, E. Fowler, assignor.)						
Farnan, Joseph P. (See Kennedy, John H., assignor.)						
Farner, Conrad, Milwaukee, Wis. Wrench	355,444	Jan. 4	196	52	38	40
Farner, Frank J., assignor of one-half to D. B. Bridgman, Armourdale, Kans. Double-seaming machine	359,857	Mar. 22	2141	540	38	1327
Farnham, Charles A., Audubon, Iowa. Obstetrical instrument	365,913	July 5	221	57	40	43
Farnham, Isaiah H., Malden, assignor to New England Telephone and Telegraph Company, Boston, Mass. Electric-instrument protector	360,570	Apr. 5	260	65	39	50
Farnham, Isaiah H., Malden, Mass., assignor to New England Telephone Company, New York, N. Y. Telephone apparatus	373,519	Nov. 22	1899	504	41	851
Farnham, Isaiah H., Malden, assignor to American Bell Telephone Company, Boston, Mass. Electric-circuit changing and signaling apparatus	375,543	Dec. 27	1948	509	41	1449
Farnham, Isaiah H., Malden, assignor to American Bell Telephone Company, Boston, Mass. Electro-magnetic arresting and releasing mechanism	375,544	Dec. 27	1955	509	41	1450
Farnham, Willard H., Minneapolis, and C. B. Askew, St. Paul, Minn. Alarm for the protection of graves	356,756	Feb. 1	21	7	38	427
Farnham, Willard H., Minneapolis, and C. B. Askew, St. Paul, Minn. Life detecting and preserving apparatus	357,190	Feb. 8	667	173	38	553
Farr, Hiram G. (See Dodd, Charles H., assignor.)						
Farquhar, Francis, M. J., and H. B., Wilmington, Ohio. Heater	366,944	July 19	1632	437	40	325
Farquhar, Henry B. (See Farquhar, Francis, M. J., and H. B.)						
Farquhar, Milton J. (See Farquhar, Francis, M. J., and H. B.)						
Farrand, Samuel A. (See Baldwin and Bradford, assignors.)						
Farrand & Votey Organ Company. (See Schwesinger and Courville, assignors.)						
Farrar, Arthur, and W. P. Elliott, Chicago, Ill. Automatic lock for gates	355,518	Jan. 4	288	77	38	58
Farrar, Benjamin F., San Francisco, Cal. Folding bed	366,311	July 12	769	{ 207 208 }	{ 40	153
Farrar, Benjamin F., San Francisco, Cal. Mattress	366,312	July 12	772	208	40	154
Farrar, Chilion M., Buffalo, N. Y. Link for steam-engines	370,938	Oct. 4	298	73	41	59
Farrar, Frederick. (See Greenwood and Farrar.)						
Farrar, J. Hamilton, Chicago, Ill. Electric railway-signal	369,929	Sept. 13	876	232	40	1208
Farrel, John, New York, N. Y. Compound welded plate for burglar-proof safes, &c.	365,300	June 21	1593	415	39	1400
Farrell, Frank M., Cobden, Ill. Gate	367,710	Aug. 2	747	150	40	554
Farrell, Franklin. (See Man, James H., assignor.)						
Farrell, James P., New York, N. Y. Combined bedstead and table	355,760	Jan. 11	641	{ 167 168 }	{ 38	135
Farrell, Michael, and T. H. Casey, assignors to Co-Operative Stove Works, Troy, N. Y. Parlor stove	355,688	Jan. 11	539	{ 141 142 }	{ 38	115
Farrell, Thomas F., Paterson, N. J. Engine-valve	367,283	July 26	2115	570	40	423
Farrell, William T., Chicago, Ill. Gage for moldings	360,213	Mar. 29	2714	{ 686 687 }	{ 38	1438
Ferrenburg, James P., Oak, Nebr. Churn	367,284	July 26	2116	570	40	423
Ferrin, John, Martinsburg, W. Va. Screw-punch	374,464	Dec. 6	422	110	41	1127
Farrington, Cleopatra K., Everett, Mass. Abdominal supporter	365,805	July 5	67	19	40	14
Farris, William H., Rock Island, Ill. Steam-generator	364,403	June 7	272	76, 77	39	1140
Farrow, Jonathan, et al. (See Koehler, William H., assignor.)						
Farrow, W. Milton, Brattleborough, Vt. Breech-loading fire-arm	372,213	Oct. 25	2140	{ 549 550 }	{ 41	441
Farson, Enoch S., Philadelphia, Pa. Chair-commode	357,914	Feb. 15	1701	443	38	756
Farwell, Pulaski, Fredericksville, Ill., assignor of one-third to J. B. Johnston, Anthony, Kans. Lever for wagon-brakes	365,737	June 28	2261	589	39	1540

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Farwell, Pulaski, Frederickville, Ill., assignor of one-third to J. B. Johnston, Anthony, Kans. Car-coupling.....	365,738	June 28	2263	589	39	1540
Fasoldt, Ernest C., assignor of one-half to O. W. Meyrowitz, Albany, N. Y. Flexible standard and conductor for electric lights.....	375,702	Dec. 27	2185	568	41	1492
Fassett, Edgar S., Albany, N. Y. Construction of railway-tracks.....	363,513	May 24	2046	532	39	883
Fassett, Francis K., St. Louis, Mo. Means for operating elevator-hatchways.....	374,243	Dec. 6	104	26	41	1067
Fast, Francis R., <i>et al.</i> (See Mills, George W., assignor.)						
Fatjo, John, Santa Clara, Cal. Sulphur-sprinkler.....	360,571	Apr. 5	265	65	39	51
Fauber, W. H. Harry, Marshfield, Ind. Fence-building machine.....	359,778	Mar. 22	2011	{ 508 509 }	{ 38 38 }	1303
Faucett, Henry, <i>et al.</i> (See Hamilton, Frederick R., assignor.)						
Faucher, Mollie J. (See Wilcox, Henry K. W., assignor.)						
Fausek, Alexander V., St. Louis, Mo. Piston-packing.....	358,442	Mar. 1	28	8	38	908
Faustmann, George, Philadelphia, Pa. Leather-splitting machine.....	374,401	Dec. 6	325	85	41	1108
Faught, Luther R. Philadelphia, Pa. Chill for car-wheels.....	365,589	June 28	2042	{ 532 533 }	{ 39 39 }	1500
Faught, Luther R., Philadelphia, Pa. Chill for car-wheels.....	365,590	June 28	2043	533	39	1500
Faught, Luther R., Philadelphia, Pa. Chill for car-wheels.....	365,914	July 5	221	58	40	43
Faulkner, George S., and G. K. Pope, Indianapolis, Ind. Gas pressure-regulator and cut-off.....	369,445	Sept. 6	187	53	40	1068
Fauntleroy, John B., and C. S. Osborn, De Kalb, Mo. Washing-machine.....	364,000	May 31	2754	714	39	1022
Faure, Camille A., New York, N. Y., assignor to Electrical Accumulator Company, of New York. Inclosing-cell for electric batteries.....	366,717	July 19	1335	357	40	269
Faurot, Benjamin C. (See Jaeger, Gustav L., assignor.)						
Faust, Daniel H., Chicago, Ill., assignor to F. H. Morris, Cleveland, Ohio. Lamp-carrier.....	362,069	May 3	23	7	39	477
Fautz, Charles A., Newark, N. J. Sleeve-button.....	360,671	Apr. 5	394	100	39	74
Favel, Charles H., Oberlin, Ohio. Hose-support.....	355,924	Jan. 11	892	233	38	181
Favel, Charles H. and C. A., Oberlin, Ohio. Hose storing and drying device.....	360,006	Mar. 29	2377	601	38	1377
Favel, Charlie A. (See Favel, Charles H. and C. A.)						
Favell, Thomas M., <i>et al.</i> (See Dixon and Thompson, assignors.)						
Favre Frères. (See Favre, Louis C., assignor.)						
Favre, Louis C., Cormoret, assignor to Favre Frères, Neuveville, Switzerland. Stem-winding watch.....	358,969	Mar. 8	815	206	38	1059
Favreau, Joseph. (See Massa, Gustav H., assignor.)						
Fawcett, Henry, Kidderminster, county of Worcester, England. Manufacturing bordered carpets and other fabrics.....	364,711	June 14	712	190	39	1231
Fawcett, John, West Union, Iowa. Window-blind.....	357,277	Feb. 8	780	202	38	575
Fawcett, Thomas C., St. Clairsville, Ohio. Force-pump.....	362,263	May 3	273	76	39	526
Fay, Charles P., assignor to L. S. Starrett, Athol, Mass. Leg-joint for calipers, dividers, &c.....	375,703	Dec. 27	2186	568	41	1492
Fay, Henry C., Worcester, Mass. Railway-car.....	363,378	May 24	1836	483	39	842
Fay, Jasper, Westborough, Mass. Machine for clearing and working roads.....	355,519	Jan. 4	290	77, 78	38	58
Fay, Lewis G. (See Dorrington, John W., assignor.)						
Fay, Rimon C., assignor to G. Draper & Sons, Hopedale, Mass. Support for spinning-spindles.....	373,650	Nov. 22	2086	557	41	887
Fay, Thomas F., Danbury, Conn. Fur-blowing machine.....	369,699	Sept. 13	536	148	40	1146
Fay, William H., Camden, N. J. Roofing.....	362,732	May 10	943	257	39	656
Fay, William H., Camden, N. J. Water-proof composition for paper.....	369,700	Sept. 13	537	.....	40	1146
Faye, Alonzo G., Jr., Natick, Mass. Bathing-shoe.....	363,377	May 24	1835	483	39	842
Fearon, Charles, Philadelphia, Pa. Electric switch-register.....	359,067	Mar. 8	944	241	38	1084
Feathers, Sarah L., Prairie City, Iowa. Compound for bleaching potatoes, &c.....	373,448	Nov. 22	1769	.....	41	827
Featherston, Giles W., Cedartown, Ga. Cotton-chopper.....	368,082	Aug. 9	1079	288	40	664
Fechtman, Lewis F., New York, N. Y. Ornamental fabric.....	359,142	Mar. 8	1039	270	38	1102
Feder, George. (See Basch, Henry L., assignor.)						
Fee, John, assignor to C. Salter, Montreal, Quebec, Canada. Alarm-bell and lock.....	362,151	May 3	136	40	39	500
Fee, William R., Montreal, Quebec, Canada. Folding table.....	357,074	Feb. 1	468	125	38	509
Fee, William R., Cincinnati, Ohio. Split pulley.....	367,509	Aug. 2	229	66	40	495
Fee, William R., Cincinnati, Ohio. Belt-rest.....	369,173	Aug. 30	2630	698	40	989
Fee, William R., Cincinnati, Ohio, assignor, by mesne assignments, to National Cotton Seed Oil and Huller Company, Memphis, Tenn. Hopper.....	356,581	Jan. 25	1838	482	38	373
Feed Water Heater Company. (See Fairbanks, Henry, assignor.)						
Feed Water Heater Company. (See Fairbanks, Thaddeus, assignor.)						
Feelemyer, Griffith. (See Sanner, William M., assignor.)						
Feeley, Thomas W., assignor of two-thirds to W. R. Perce and J. J. Keegan, Providence, R. I. Bicycle.....	371,747	Oct. 18	1436	371	41	301
Fegley, W. (See Bastian, Albert D., assignor.)						
Feige, Ernest, East Saginaw, Mich. Street-railway rail.....	364,502	June 7	419	113	39	1167
Feigel, Morris. (See Evans, Thomas, assignor.)						
Feigenspan, Christian. (See Jacob, Frederick, assignor.)						
Feigly, David, Medway, Ohio. Nursery tree-digger.....	370,690	Sept. 27	2012	535	40	1434
Fein, Louise D., Cincinnati, Ohio. Fire-escape.....	372,526	Nov. 1	348	96	41	536
Felbel, Jacob, New York, N. Y. Metallic fastener.....	359,671	Mar. 22	1835	466	38	1272
Feldges, Robert E., New York, N. Y. Mechanical movement.....	368,083	Aug. 9	1081	288	40	665
Feldkamp, George, Cincinnati, Ohio. Chair-guide.....	355,689	Jan. 11	540	142	38	115
Feldman, Bernhard J., and W. H. Reese, Jr., Franklin, Pa. Advertising-clock.....	360,955	Apr. 12	804	{ 206 207 }	{ 39 39 }	155
Felix, Numa J., New York, N. Y. Watch-case spring.....	361,752	Apr. 26	1951	507	39	387
Felix, Numa J., Brooklyn, N. Y. Watch-case spring.....	372,018	Oct. 25	1837	476	41	387
Fell, Elmer M., Springfield, Mass. Radiator-support.....	360,869	Apr. 12	676	177	39	133
Fell, George E., Trenton, N. J. Refrigerator.....	364,809	June 14	876	230	39	1250
Fell, George E., Buffalo, N. Y. Apparatus for producing artificial respiration.....	374,402	Dec. 6	326	86	41	1108
Fell, Thomas M., Tenally, N. J. Relief-valve for engine-cylinders.....	357,191	Feb. 8	669	173	38	554
Fellers, Noah, McComb, Ohio. Screw-driver.....	355,392	Jan. 4	132	36	38	27
Fellows, Alvah L., assignor of two-thirds to A. J. Lovejoy and G. W. Rogers, Litchfield, Mich. Road-cart.....	363,221	May 17	1633	429	39	794
Fellows, E. T., <i>et al.</i> (See Wise, Morris, assignor.)						
Fellows, Frank, <i>et al.</i> (See Ballard, James, assignor.)						
Fellows, Henry. (See Busfield and Fellows.)						
Fellows, Henry. (See Haselton, Charles W., assignor.)						
Fellows, Henry, Haverhill, Mass. Seam-pressing machine.....	375,417	Dec. 27	1780	466	41	1417
Fellows, Henry, and J. Busfield, Haverhill, Mass., assignors to Kenoza Seam-Pressing Machine Company, Kingston, N. H. Seam-pressing machine.....	374,403	Dec. 6	327	86	41	1108
Fellows, Moses H., Salisbury, N. H. Individual fire-escape.....	370,612	Sept. 27	1899	504	40	1413

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Fellows, William H. (See Parsons, Isaac B., assignor.)						
Felt, Dorr E., assignor to himself and C. W. Foster, Chicago, Ill. Adding-machine	366,945	July 19	1634	{ 438 439	{ 40	325
Felt, Dorr E., assignor to himself and C. W. Foster, Chicago, Ill. Adding-machine	371,496	Oct. 11	1071	280	41	218
Felt, Granville P. (See Haselton and Felt.)						
Felt, John H., and O. King, assignors of one-half to J. S. Clift and S. W. Felt, Greenfield, Ind. Fence-loom	361,582	Apr. 19	1695	{ 438 439	{ 39	332
Felt, Sylvester W., et al. (See Felt and King, assignors.)						
Felton, Charles E., assignor to himself and H. A. Streeter, Chicago, Ill. Heating and ventilating prisons or other buildings	370,011	Sept. 13	1008	{ 265 266 267	{ 40	1231
Felton, Emerson C., assignor, by mesne assignments, to W. C. Sexton, Chicago, Ill. Bustle	375,318	Dec. 20	1649	432	41	1383
Fender, William, Buenos Ayres, Argentine Republic. Wheel with endless rail	373,887	Nov. 29	2419	650	41	959
Fenderson, George S., assignor to Lowell Machine Shop, Lowell, Mass. Drop-wire stop-motion mechanism for warpers	359,014	Mar. 8	880	224	38	1071
Fenlason, Orrin C., Montague, Mich. Machine for cutting round blocks	363,222	May 17	1633	429	39	794
Fennell, Martin, Skaneateles, N. Y. Car-coupling	356,932	Feb. 1	260	72	38	469
Fennell, Timothy H., Apulia, assignor of one-half to A. H. Schwarz, Syracuse, N. Y. Railway-gate	364,165	May 31	2984	776	39	1067
Fennell, Timothy H., Apulia, assignor of one-half to A. H. Schwarz, Syracuse, N. Y. Railway-gate	364,166	May 31	2985	776	39	1067
Fennell, Timothy H., Apulia, assignor of one-half to A. H. Schwarz, Syracuse, N. Y. Railway-gate	364,167	May 31	2987	776	39	1068
Fenner, Augustus M., Linesville, Pa. Treadle-movement	363,289	May 17	1719	450	39	811
Fenner, George P., New London, Conn. Universal joint	364,503	June 7	419	113	39	1167
Fenner, George P., New London, Conn. Inking apparatus for printing-machines	372,214	Oct. 25	2144	550	41	442
Fenner, George P., New London, Conn. Sheet-delivery apparatus for printing-machines ..	374,465	Dec. 6	423	{ 110 111	{ 41	1127
Fenner, Henry S., Fall River, Mass. Slasher	365,591	June 28	2045	533	39	1500
Fenner, Richard E., assignor to C. K. Giles, Chicago, Ill. Watch-case	365,981	July 5	319	84	40	61
Fennerty, John M., assignor of one-tenth to R. Walsh, Washington, D. C. Railway-spike ..	371,185	Oct. 11	641	164	41	134
Fennessy, Edward H. (See Butman, Fred P., assignor.)						
Fenno, I., et al. (See Howe, Patrick, assignor.)						
Fenson, John, Toronto, Ontario, Canada. Hydraulic elevator	362,070	May 3	24	8	39	477
Fenton, Ephraim C., Kansas City, Mo. Combined sliding or roller coaster	372,306	Nov. 1	30	10	41	477
Fenwick, B. Carlyle. (See Landvoigt and Fenwick.)						
Ferguson, Alvah P., Dexter, Mich. Two-wheeled vehicle	362,733	May 10	944	257	39	657
Ferguson, Arthur C., Saratoga, N. Y. Signal and pyrotechnic electric light	370,052	Sept. 20	1071	283	40	1251
Ferguson, D. M. (See Winston, Alexander, assignor.)						
Ferguson, Daniel K. (See Hall, Michael C., assignor.)						
Ferguson, George, Troy, N. Y. Paper-making machine	357,474	Feb. 8	1051	278	38	626
Ferguson, George J., Greenville, Tex. Car-coupling	361,867	Apr. 26	2125	551	39	419
Ferguson, George J., assignor of one-eighth to S. Branthoffer and E. F. Stahl, Greenville, Tex. Rail-joint	374,529	Dec. 6	515	135	41	1146
Ferguson, George J., assignor of one-eighth to E. F. Stahl, S. Branthoffer, Greenville, and A. L. Downer, Pittsburg, Tex. Car-coupling	356,111	Jan. 18	1181	313	38	242
Ferguson, George J., assignor of one-eighth to E. F. Stahl, S. Branthoffer, Greenville, and A. L. Downer, Pittsburg, Tex. Car-door	356,307	Jan. 18	1446	380	38	292
Ferguson, George J., assignor of one-eighth to E. F. Stahl, S. Branthoffer, Greenville, and A. L. Downer, Pittsburg, Tex. Car-door	356,308	Jan. 18	1447	380	38	292
Ferguson, George J., assignor of one-eighth to E. F. Stahl, S. Branthoffer, Greenville, and A. L. Downer, Pittsburg, Tex. Continuous recording-seal and door-fastener	360,285	Mar. 29	2830	{ 719 720	{ 38	1461
Ferguson, James. (See Rice, David H., assignor.)						
Ferguson, James H., et al. (See Fahnstock, John, assignor.)						
Ferguson, James H., Brooklyn, assignor to Lovejoy, Son & Co., New York, N. Y. Machine for tenoning and dovetailing	368,761	Aug. 23	2055	{ 544 545	{ 40	868
Ferguson, John H., Albion, Mich. Book-support	356,826	Feb. 1	112	31	38	444
Ferguson, Robert G., Saratoga, N. Y. Steam-generator	356,827	Feb. 1	113	31	38	444
Ferguson, Robert G., assignor of one-half to O. A. Day, Saratoga, N. Y. Combined steam generator and radiator	370,012	Sept. 13	1010	267	40	1232
Ferguson, Thomas, Parkersburg, Iowa. Combined hammock-support and canopy-top	363,223	May 17	1634	429	39	795
Ferguson, Thomas, Parkersburg, assignor to A. A. Hershey, Allison, and M. E. Ilgen, Parkersburg, Iowa. Stock-salter	361,621	Apr. 19	1756	455	39	343
Ferguson, Thomas, and W. W. Cartner, assignors to S. P. Heartt and R. D. Owen, Parkersburg, Iowa. Flying target	367,748	Aug. 2	598	162	40	563
Fergusson, John, Kansas City, Mo. Cut-off and delivery table for brick or tile machines ..	375,319	Dec. 20	1650	433	41	1383
Feris, Warren W., et al. (See Vanover, Joseph M., assignor.)						
Ferrall, Thomas R., Boston, Mass. Anti-friction bearing for pulley-blocks	358,028	Feb. 22	1857	491	38	790
Ferrall, Thomas R., Boston, Mass. Snatch-block	373,972	Nov. 29	2541	683	41	983
Ferrel, John, Zanesville, Ohio. Combined ladder-truck and hose-carriage	360,286	Mar. 29	2834	720	38	1461
Ferrell, Flavel M., Toccopola, Miss. Scale-beam	357,658	Feb. 15	1342	353	38	689
Ferren, Daniel M., Taunton, Mass. Sash-fastener	362,152	May 3	137	40	39	500
Ferrenburg, Jonathan P., La Forge, Mo. Shingle-machine	374,953	Dec. 20	1149	301	41	1287
Ferres, Jeffrey T., Richford, Vt. Machine for making veneer dishes	364,404	June 7	275	77	39	1141
Ferrill, James G. (See Newton and Ferrill.)						
Ferriott, Charlie L., Armour, Tex. Combined cotton chopper and cultivator	360,214	Mar. 29	2716	687	38	1439
Ferris, Benjamin D., Peekskill, N. Y. Stove-plate fastening	374,666	Dec. 13	713	187	41	1195
Ferris, Henry M., and W. Gallon, said Ferris assignor to M. E. Ferris, Village Mills, Tex. Log-turner	362,826	May 10	1076	292	39	680
Ferris, Mary E. (See Ferris and Gallon, assignors.)						
Ferry, Dexter M. (See Morrow, George L. K., assignor.)						
Ferry, Joseph B., Martin, near Lincoln, county of Lincoln, England. Stereoscope	366,823	July 19	1475	393	40	295
Ferry, Thomas, Wilmington, Del. Head-rest	357,915	Feb. 15	1702	444	38	756
Ferst, Charles, Louisville, Ky. Reclining-chair	357,955	Feb. 15	1753	458	38	766
Fertick, Benjamin F., assignor to J. A. Jeffrey, Columbus, Ohio. Gas-regulator	366,622	July 12	1198	320	40	236
Fertick, Benjamin F., assignor to J. A. Jeffrey, Columbus, Ohio. Gas-regulator	368,331	Aug. 16	1441	382	40	742
Fertick, Benjamin F., assignor to J. A. Jeffrey, Columbus, Ohio. Sponge-cup	375,057	Dec. 20	1293	337	41	1312
Fertig, Otto S., New York, N. Y. Connection-hanger for electrotyping apparatus	360,672	Apr. 5	395	100	39	74
Fertig, Otto S., New York, N. Y. Portable railway-switch	371,748	Oct. 18	1437	372	41	301
Fesler, Paul, assignor of one-fourth to W. H. Fesler, Salem, Ohio. Nut-lock	375,704	Dec. 27	2187	569	41	1492
Fesler, William H. (See Fesler, Paul, assignor.)						
Fetzer, James J., Columbiana, Ohio. Running-gear for vehicles	356,309	Jan. 18	1449	380	38	292

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Fezandié, Joseph H., New York, N. Y. Card-list.....	373,279	Nov. 15	1511	{ 398 399 }	{ 41 }	767
Feys, Oscar C., Tournai, Belgium. Music-leaf turner	361,816	Apr. 26	2012	{ 531 532 }	{ 39 }	404
Fiedler, John M., Wentzville, Mo. Horse-detacher	372,902	Nov. 8	936	252	41	652
Field, Lovass. (See Lang, John C., assignor.)						
Field, Lovasso, <i>et al.</i> (See Clague, William H. H., assignor.)						
Field, Millard F., Chelsea, Mass. Vertical loom	371,569	Oct. 18	1178	307	41	248
Field, Millard F., Chelsea, Mass., assignor to American Spindle Company, Saco, Me. Loom-shuttle	360,572	Apr. 5	265	65	39	51
Field, Millard F., Chelsea, Mass., assignor to American Spindle Company, Saco, Me. Loom-shuttle	360,573	Apr. 5	267	65	39	51
Field, Millard F., Chelsea, Mass., assignor to American Spindle Company, Saco, Me. Loom-shuttle	360,574	Apr. 5	267	66	39	51
Field, Reuben S., <i>et al.</i> (See Rheem, John H., assignor.)						
Field, Samuel A., Putnam, Conn. Heating-drum for furnaces and stoves	360,575	Apr. 5	268	66	39	52
Field, Samuel A., Putnam, Conn. Mail-bag fastener	363,130	May 17	1509	400	39	770
Field, Samuel A., Putnam, Conn. Child's tray	368,389	Aug. 16	1514	403	40	757
Field, Stephen D., Yonkers, N. Y. Regulator for electric currents	374,404	Dec. 6	328	86	41	1108
Field, Stephen D., Yonkers, N. Y. Electrically-propelled vehicle	375,346	Dec. 27	1690	444	41	1399
Field, Stephen D., assignor to himself and J. Anderson, New York, N. Y. Transmitter for printing-telegraphs	365,982	July 5	320	85	40	61
Field, Stephen D., assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph	370,691	Sept. 27	2013	535	40	1434
Field, W. H. (See Lane, William J., assignor.)						
Field, William, assignor of one-half to E. B. English and H. McInnes, Philadelphia, Pa. Furnace and burner for burning hydrocarbon oil	370,251	Sept. 20	1349	361	40	1304
Field, William R., and L. E. Hogue, Greenville, Pa. Cut-off for gas	361,684	Apr. 26	1859	482	39	372
Fielding, James, Steubenville, Ohio. Nail-plate feeder	372,307	Nov. 1	31	10	41	478
Fields, Morton R. (See Shepard and Fields.)						
Fifield, Alfred P. and W. L., assignors of one-half to W. G. Fifield, Augusta, Me. Measuring-pump	370,613	Sept. 27	1900	505	40	1413
Fifield, John W. D., North Brookfield, Mass., assignor to Stoddard Crimping Machine Company, Hartford, Conn. Crimping-machine	363,055	May 17	1406	372	39	749
Fifield, Levi W., and A. I. Jacobs, Worcester, Mass., assignors to Smythe Manufacturing Company, Hartford, Conn. Book-binding	361,152	Apr. 12	1108	280	39	210
Fifield, Levi W., and A. I. Jacobs, Worcester, Mass., assignors to Smythe Manufacturing Company, Hartford, Conn. Book-sewing machine	370,460	Sept. 27	1660	{ 442 443 444 }	{ 40 }	1369
Fifield, Walter L. (See Fifield, Alfred P. and W. L.)						
Fifield, William G. (See Fifield, Alfred P. and W. L., assignors.)						
Fike, Donaphon M., Des Moines, Iowa. Signal for open railway switches and bridges	369,001	Aug. 30	2396	636	40	943
Filer, William H., Grove City, Pa. Padlock	366,387	July 12	868	233	40	171
Filley, Charles H. (See O'Keefe and Filley.)						
Filley, Samuel P. (See Long, Filley, and Ruggles.)						
Filliez, Peter. (See Monnin and Filliez.)						
Filmer, William, San Francisco, Cal. Clamp for securing stereotype-plates	374,667	Dec. 13	714	188	41	1195
Filson, Charley F., Point Pleasant, W. Va. Gutter-box for tanners	357,075	Feb. 1	468	125	38	509
Finch, I. N., <i>et al.</i> (See Downer, William S., assignor.)						
Finch, John M., assignor to Knickerbocker Company, Jackson, Mich. Dust-collector	370,533	Sept. 27	1774	473	40	1389
Finch, Thomas F. N., Worcester, county of Worcester, England, assignor to J. W. McCrillis, Providence, R. I. Furniture-nail	370,614	Sept. 27	1901	505	40	1413
Finch, William S. (See Brisley and Finch.)						
Finch, William S., Toronto, Ontario, Canada. Shirt	372,019	Oct. 25	1838	476	41	387
Finck, John, Jr., St. Louis, Mo. Fifth-wheel	364,234	June 7	49	15	39	1098
Findeisen, Frederick, Fergus Falls, Minn. Harrow	365,677	June 28	2164	564	39	1522
Findeisen, William, Fergus Falls, Minn. Wagon-axle	355,603	Jan. 4	398	108	38	79
Findlay, Peter P., and A. McInnis, Donald, British Columbia, Canada. Apparatus for operating pumps	363,617	May 24	2199	570	39	912
Findley, James W., Dallas, Tex. Thill-coupling	358,443	Mar. 1	29	9	38	909
Findling, Valentine, Tipton, Ind. Anchor for fence-posts	362,501	May 10	610	172	39	596
Finger, Alexander, and W. Menzel, assignors to A. Finger & Co., Berlin, Germany. Printing bronze on plush	363,131	May 17	1511	.....	39	770
Finger & Co., A. (See Finger and Menzel, assignors.)						
Fink, John B., Schnecksville, Pa. Thill-coupling	368,143	Aug. 9	1163	310	40	680
Finks, Alberto, New Berlin, N. Y. Broom-holder	361,153	Apr. 12	1109	281	39	210
Finks, Alberto, New Berlin, N. Y. Road digger and scraper	367,968	Aug. 9	926	{ 250 251 }	{ 40 }	636
Finley, Charles A., Holton, Kans. Nut-lock	367,203	July 26	1984	536	40	400
Finley, Clement B., <i>et al.</i> (See Arp, Peter A., assignor.)						
Finley, Frank H., <i>et al.</i> (See Ennis, Henry J., assignor.)						
Finley, John P., and J. D. Smith, Washington, D. C. Helio-telegraph	360,425	Apr. 5	31	9, 10	39	8
Finley, William L., and H. B. Kirkwood, Washington, D. C. Game-board	356,870	Feb. 1	182	48	38	455
Finnegan, John, Philadelphia, Pa. Meat-hook support or bracket	361,154	Apr. 12	1109	281	39	210
Finnell, William T., assignor of one-half to N. B. Wilson, Oakland City, Ind. Ditching-machine	360,870	Apr. 12	677	177	39	133
Finney, Henry E. (See Prentiss, Joseph L., assignor.)						
Finney, Henry E., Chicago, Ill. Tuning-pin setter	360,871	Apr. 12	679	178	39	133
Finney, John B. (See James, John E., assignor.)						
Fiorini, Rodolphus T., New York, N. Y. Stringed-instrument holder	361,817	Apr. 26	2044	532	39	404
Firm, Joseph L., Jersey City, N. J. Printing-machine	366,388	July 12	869	233	40	172
Firm, Joseph L., Jersey City, N. J. Rotary printing-machine	374,355	Dec. 6	268	71, 72	41	1097
Firman, Leroy B., Chicago, Ill. Electric call-box	375,617	Dec. 27	2062	536	41	1469
Firnhaber, Carl W., Paris, France. Corset-stiffener	359,015	Mar. 8	882	225	38	1071
Firth, Edward G., <i>et al.</i> (See Firth, Thomas R., assignor.)						
Firth, Edwin, Troy, N. Y. Vehicle-axle	365,376	June 28	1719	445	39	1437
Firth, Sidney, Leeds, county of York, England. Apparatus for checking and recording cash received	366,389	July 12	871	{ 233 234 }	{ 40 }	172
Firth, Sidney, Leeds, county of York, England. Apparatus for checking and recording cash received	370,692	Sept. 27	2016	{ 535 536 537 }	{ 40 }	1435
Firth, Thomas R., assignor of two-thirds to J. M. Reed and E. G. Firth, Newport, Ky. Gas-regulator	356,684	Jan. 25	1979	520	38	400

Alphabetical list of patentees—Continued.

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Fischbeck, Detmer. (See Wahra, Adolph, assignor.)						
Fischer, Benedict, <i>et al.</i> (See Marion, Joseph, assignor.)						
Fischer, Clemens. (See Trebau, Frank, assignor.)						
Fischer, Engelbert, Chicago, Ill. Brake mechanism for sawing-machines	371,533	Oct. 11	1123	292	41	228
Fischer, Frank X. (See Mitchell and Fischer.)						
Fischer, Frederick. (See Zelly, John, assignor.)						
Fischer, Frederick J. W., Jersey City, N. J., assignor to Eagle Pencil Company, New York, N. Y. Holder for pens, pencils, &c	356,996	Feb. 1	353	94	38	488
Fischer, Georg, Nuremberg, Bavaria, Germany. Play with rotating gig	359,317	Mar. 15	1278	331	38	1154
Fischer, Henry, New York, N. Y. Steam rock-drill	359,143	Mar. 8	1039	270	38	1103
Fischer, Johan G., Augsburg, Bavaria, Germany. Tool-handle	364,097	May 31	2882	748	39	1048
Fischer, John, Louisville, Ky. Harness saddle and pad	371,442	Oct. 11	1001	260	41	204
Fischer, John, Louisville, Ky. Harness-loop	375,277	Dec. 20	1593	418	41	1372
Fischer, Joseph, Cleveland, Ohio. Burglar-proof safe	362,734	May 10	945	257	39	657
Fischer, Louis, New York, N. Y. Scarf attachment	363,618	May 24	2202	570	39	913
Fischer, Philipp, assignor to C. W. Mead, Stoughton, Mass. Crimping-machine	367,030	July 26	1742	469	40	354
Fischer, Samuel. (See Obersky and Fischer.)						
Fischer, Wilhelm, and T. Stiehl, Essen-on-the-Ruhr, Prussia, Germany. Draft-regulator for furnaces	372,409	Nov. 1	185	52	41	504
Fischer, Wilhelm M., Brooklyn, N. Y. Cork-fastener	357,311	Feb. 8	828	216	38	584
Fish, Burton M., Hamburg, N. Y. Drawers supporter and gatherer	360,576	Apr. 5	269	66	39	52
Fish, Frederick P., trustee. (See Roper, Charles F., assignor.)						
Fish, George M., Chicago, and C. J. F. Kraft, Joliet, Ill. Wire-nail machine	368,465	Aug. 16	1637	{ 437 438 }	{ 40 40 }	780
Fish, Oren, Cleveland, Ohio. Brush	367,032	July 26	1745	470	40	354
Fish, Oren, Cleveland, Ohio, assignor of one-half to G. H. Kingsley. Brush	367,031	July 26	1743	470	40	354
Fish, Warren L., Newark, N. J. Lantern-supporting arm for bicycles	356,112	Jan. 18	1183	313	38	242
Fish, William, and I. Deeter, Pleasant Hill, Ohio. Tool-holder	361,155	Apr. 12	1110	281	39	211
Fisher, A. Park, assignor of one-half to G. W. Pfost, Fair Plain, W. Va. Rein-support	367,611	Aug. 2	369	104	40	522
Fisher, Alfred A., and A. J. Hart, Brooklyn, N. Y., assignors to Pacific Tucking and Manufacturing Company, San Francisco, Cal. Motor	357,378	Feb. 8	912	240	38	600
Fisher, Alfred A., and A. J. Hart, Brooklyn, N. Y., assignors to Pacific Tucking and Manufacturing Company, San Francisco, Cal. Sewing-machine	357,379	Feb. 8	914	{ 240 241 }	{ 38 38 }	601
Fisher, Alonzo P., <i>et al.</i> (See Sharood, William H., assignor.)						
Fisher, Andrew J. (See Van Horne and Fisher.)						
Fisher, Charles, assignor of one-half to G. B. Burnett, Manitowoc, Wis. Gate for bridges. Marking-stick	368,524	Aug. 16	1717	458	40	795
Fisher, Charles, Manitowoc, Wis., assignor to Sun Gas Light Company, of Wisconsin. Marking-stick	371,133	Oct. 4	570	145	41	113
Fisher, Charles, and G. B. Burnet, Manitowoc, Wis. Hinge	374,954	Dec. 20	1152	301	41	1287
Fisher, Charles H. (See Hallowell, Albert, assignor.)						
Fisher, Charles H., Lowell, Mass. Spindle-driving mechanism for spinning-machines	356,355	Jan. 18	1516	{ 398 399 }	{ 38 38 }	305
Fisher, Charles H., Lowell, Mass. Spinning-spindle and support therefor	356,356	Jan. 18	1520	399	38	306
Fisher, Charles H., assignor to Lowell Machine Shop, Lowell, Mass. Sizing-vat	362,735	May 10	946	258	39	657
Fisher, Clark, Trenton, N. J. Rail-joint	360,673	Apr. 5	396	100	39	74
Fisher, Clark, Trenton, N. J. Anvil	365,678	June 28	2165	564	39	1522
Fisher, Edmund G., Minneapolis, Minn. Registering and recording scale-beam and weight	371,831	Oct. 18	1559	403	41	325
Fisher, Edmund G., Minneapolis, Minn. Registering and recording weighing-scale	371,832	Oct. 18	1562	403	41	326
Fisher, Elizabeth E., Delphi, Ind. Wardrobe-hook	360,577	Apr. 5	270	66	39	52
Fisher, Emil. (See Evarts and Fisher.)						
Fisher, Emil, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Hanging lamp	373,280	Nov. 15	1513	399	41	767
Fisher, Francis, Scotia, Nebr. Wagon-box	359,436	Mar. 15	1459	{ 373 374 }	{ 38 38 }	1187
Fisher, Frank E., Detroit, Mich. Automatic lathe	360,215	Mar. 29	2717	{ 687 688 }	{ 38 38 }	1439
Fisher, Frank E., Detroit, Mich. Electric motor	360,216	Mar. 29	2721	688	38	1440
Fisher, Frank E., Detroit, Mich. Reversing mechanism for electric motors	371,443	Oct. 11	1002	{ 260 261 }	{ 41 41 }	204
Fisher, Frank E., assignor to Merchants Store Railway Company, Detroit, Mich. Store-service track	355,604	Jan. 4	398	108	38	79
Fisher, Frank R., St. Louis, Mo. Crate-fastener	373,730	Nov. 22	2193	586	41	909
Fisher, Frank R., and P. S. Robbins, St. Louis, Mo.; said Robbins assignor to said Fisher. Crate-fastener	373,731	Nov. 22	2193	586	41	909
Fisher, George B., Dreherstown, Pa. Sausage-stuffing machine	359,144	Mar. 8	1041	270	38	1103
Fisher, George P., Jr., Chicago, Ill. Strip for metal fences	373,772	Nov. 22	2253	604	41	919
Fisher, Harry L. (See Ballard and Fisher.)						
Fisher, Harvey L., Toledo, Iowa. Platform-scale	360,287	Mar. 29	2835	721	38	1462
Fisher, Henry. (See Lerch, Tyburtus F., assignor.)						
Fisher, Henry, assignor to Ney Manufacturing Company, Canton, Ohio. Track for hay-carriers	362,438	May 3	510	143	39	573
Fisher, Israel, Medford, Mass. Electric gas-lighting apparatus	364,235	June 7	50	15	39	1098
Fisher, Jacob, South Bend, Ind. Fire-escape	374,244	Dec. 6	106	27	41	1067
Fisher, John J., Allegheny, assignor to Westinghouse Electric Company, Pittsburg, Pa. Socket and key for incandescent lamps	371,570	Oct. 18	1182	308	41	248
Fisher, Joseph H., Deerfield, Ill. Seal-lock	363,815	May 31	2484	645	39	972
Fisher, Joseph L., Pittsburg, Pa., assignor of two-thirds to L. Carr, Canton, and J. J. Smith, Cleveland, Ohio. Apparatus for watering railway-tracks	364,001	May 31	2754	714	39	1022
Fisher, Louis, Fennimore, Wis. Sled	366,946	July 19	1637	439	40	326
Fisher, Lucius G., Jr. (See Reynolds, George H., assignor.)						
Fisher, Noble A., Sacramento, Cal. Construction of elevator-shafts and their approaches	372,611	Nov. 1	481	130	41	560
Fisher, Otis G., Owosso, Mich., assignor of one-half to I. Bassford, New York, N. Y. Pin attachment for brooches, &c	362,264	May 3	274	76	39	526
Fisher, Thomas C., Anderson, Ind. Grain-cradle attachment	372,791	Nov. 8	763	205	41	621
Fisher, Thomas C., Anderson, Ind. Fastener for scythes	374,052	Nov. 29	2654	713	41	1005
Fisher, William. (See Redman, Edward, assignor.)						
Fisher, William H. (See Houston, Emmet P., assignor.)						
Fisher, William M. (See Conkling and Fisher.)						
Fisk, Harris M., Topeka, Kans. Heel-support for rubbers	367,033	July 26	1746	470	40	355
Fisk, Harvey F., Pella, Iowa. Machine for laying drain-tile	369,783	Sept. 13	641	173	40	1165
Fisk, John C., Carlyle, Ill. Cash-tally	356,227	Jan. 18	1332	352	38	270
Fiske, George M., assignor of two-thirds to J. C. Kenyon and W. D. Phelps, Springfield, Mass. Chair	373,555	Nov. 22	1948	517	41	859

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Fiske, Henry G., Springfield, Mass., assignor of one-half to Kampfe Bros., New York, N. Y. Safety-razor	373,395	Nov. 15	1689	448	41	800
Fiske, Henry P., assignor, by mesne assignments, to C. F. Copeland, Boston, and G. W. Daniels, Somerville, Mass., trustees. Printing mechanism for paper-box machines	357,553	Feb. 8	1178	310	38	650
Fiske, Henry P., assignor to C. F. Copeland, Boston, and G. W. Daniels, Somerville, Mass., trustees. Box-blank cutter	360,674	Apr. 5	397	101	39	75
Fiske, Samuel, New York, N. Y. Steam-generator	361,216	Apr. 12	1199	305	39	227
Fiske, Samuel, New York, N. Y. Grate for furnaces, &c	364,712	June 14	715	190	39	1231
Fitch, Arthur, <i>et al.</i> (See Averell, John D., assignor.)						
Fitch, Calvin H., Middletown Springs, Vt. Spring bed-bottom	371,497	Oct. 11	1077	231	41	219
Fitch, Derick H., Cazenovia, N. Y. Solution for galvanic batteries	361,004	Apr. 12	884		39	168
Fitch, Eugene, Des Moines, Iowa. Type-writing machine	366,577	July 12	1128	{ 302 303 }	{ 40 40 }	225
Fitch, Ezra C., Newton, Mass. Making enameled watch-dials	366,085	July 5	454	123	40	86
Fitch, Franklin. (See Hills and Fitch.)						
Fitch, Frederick K., New York, N. Y. Electric indicator	360,381	Mar. 29	2963	752	38	1484
Fitch, Lauren M., Rome, N. Y. Spring-vehicle	357,820	Feb. 15	1578	410	38	733
Fitch, Lauren M., assignor of one-half to M. M. Davis, Rome, N. Y. Folding chair	367,749	Aug. 2	599	162	40	563
Fitch, Washington L., W. W. Weisell, and L. S. Kapp, Bluffton, Ind. Washing-machine	375,278	Dec. 20	1594	418	41	1372
Fitch, William E., assignor to Peerless Manufacturing Company, Louisville, Ky. Fire-place grate	362,265	May 3	275	77	39	527
Fithian, Richard B., New York, N. Y. Apparatus for treating sewage	360,956	Apr. 12	805	207	39	155
Fitt, Frederick, Chaux-de-Fonds, Neuchâtel, Switzerland, assignor to S. A. Fitt, London, England. Watch	358,925	Mar. 8	759	189	38	1049
Fitt, Sarah A. (See Fitt, Frederick, assignor.)						
Fitten, John A., <i>et al.</i> (See Jones, Reuben, assignor.)						
Fitton, Hobson. (See Senior and Fitton.)						
Fitts, Abraham, Worcester, Mass. Elevator	365,806	July 5	67	20	40	14
Fitts, Abraham, Worcester, Mass. Combined hydraulic and knuckle-joint press	371,049	Oct. 4	459	115	41	90
Fitts, Isaac, Nashua, N. H. Shears	358,548	Mar. 1	199	47	38	939
Fitz-Gerald, Desmond, Brookline, Mass. Filtering apparatus	359,249	Mar. 15	1189	310	38	1137
Fitz-Gerald, Desmond, Brookline, Mass. Machine for cleaning conduits, &c	362,153	May 3	139	41	39	500
Fitz-Gerald, Desmond G., Akerman Road, Loughborough Road, Brixton, county of Surrey, England. Obtaining chlorine by electrolysis	357,659	Feb. 15	1343	353	38	689
Fitz-Gerald, Desmond G., Brixton, county of Surrey, assignor to Primary Battery Company, (limited,) Hanover Square, county of Middlesex, England. Manufacture of plates or elements for voltaic batteries	358,111	Feb. 22	1985	524	38	813
Fitzgerald, Edward J. (See Lynch and Fitzgerald.)						
Fitzgerald, Jacob, Newark, N. J., and W. H. Silver, New York, N. Y., assignors to Silver & Co. Potato-masher and fruit-crusher	371,882	Oct. 18	1644	425	41	341
Fitzgerald, James A., Philadelphia, Pa. Clamp	371,310	Oct. 11	815	208	41	167
Fitzgerald, John, Girardville, Pa. Railway-tie	367,383	Aug. 2	36	10	40	458
Fitzgerald, John, and D. L. Osborn, Lincoln, Nebr. Wheeled dirt-scraper	360,007	Mar. 29	2377	601	38	1377
Fitzgerald, Michael V., Springfield, Mass. Switch-stand	357,588	Feb. 15	1235	325	38	671
Fitzgerald, Orrin, Jr., Dexter, Me. Smoke and spark conveyer for locomotives	369,050	Aug. 30	2465	654	40	956
Fitzgerald, Walter S., assignor of one-half to A. S. Dinsmore, Boston, Mass. Skiving-machine	370,327	Sept. 20	1454	{ 390 391 }	{ 40 40 }	1324
Fitzgerald, William J., New Haven, Conn. Lawn-mower	370,771	Oct. 4	29	7	41	8
Fitzgibbon, James J., Minneapolis, Minn. Shank-burnisher for boots or shoes	370,053	Sept. 20	1073	283	40	1251
Fitzhugh, Frank. (See Anderson, Lee, assignor.)						
Fitzpatrick, Michael E., and J. Jardine, Bridgeport, Conn. Glove or shoe fastener	371,749	Oct. 18	1438	372	41	301
Fitzpatrick, William. (See Newton and Fitzpatrick.)						
Fitzpatrick, William, Girard, Kans. Washing-machine	357,076	Feb. 1	470	125	38	509
Fitzpatrick, William, Girard, Kans. Fire-escape	375,279	Dec. 20	1595	418	41	1372
Fitzsimmons, George, West Chester, Pa. Handle	374,466	Dec. 6	425	111	41	1127
Fjord, Lorens, Alameda County, and J. Broters, San Francisco, Cal. Water-filter	358,112	Feb. 22	1989	524	38	813
Flack, James M., Sharon, N. C. Mechanism for operating churn-dashers	359,145	Mar. 8	1042	271	38	1103
Flack, Robert W., <i>et al.</i> (See Bartholomew, William, assignor.)						
Flad, Frederick, Philadelphia, Pa. Shoe-nail	374,590	Dec. 13	608	158	41	1173
Flad, Henry, St. Louis, Mo. System of supporting and repairing electric conducting-wires, &c	361,217	Apr. 12	1201	{ 305 306 }	{ 39 39 }	227
Flagg & Co., Stanley G. (See Shields, Christopher, assignor.)						
Flagg, Eli W., assignor of one-half to E. C. Nichols, Battle Creek, Mich. Grain-separator	367,750	Aug. 2	600	163	40	564
Flagg, George H. P., <i>et al.</i> (See Fullerton, George A., assignor.)						
Flagg, George H. P., trustee. (See Coy, Frederick W., assignor.)						
Flagg, George H. P., trustee. (See Mathews, Don Castro, assignor.)						
Flagg, James H., Brooklyn, N. Y. Show-case	363,619	May 24	2203	570	39	913
Flagg, Joseph W., and C. R. B. Claffin, Jr., Worcester, Mass.; said Claffin assignor to said Flag. Cash-carrier	360,008	Mar. 29	2379	{ 601 602 }	{ 38 38 }	1377
Flagler, John H., New York, N. Y. Manufacture of shafts and ordnance	364,098	May 31	2883	748	39	1048
Flagler, John H., New York, N. Y. Device for welding tubing	371,833	Oct. 18	1563	404	41	326
Flagler, John H., New York, N. Y. Device for welding tubing	371,834	Oct. 18	1565	404	41	326
Flagler, John H., New York, N. Y. Tube-rolling mill	371,835	Oct. 18	1566	404	41	326
Flagstad, Ole, Hamar, Norway. Window	358,773	Mar. 1	513	126	38	999
Flammang, Mathias, Newark, N. J., assignor to Scovill Manufacturing Company, New York, N. Y. Photographic camera	357,984	Feb. 15	1802	473	38	775
Flanders, Brown S., Boston, Mass. Fire-alarm box	370,328	Sept. 20	1455	391	40	1324
Flanders, Timothy B. (See Buttrick and Flanders.)						
Flanagan, James H., Peoria, Ill. Brick-machine	355,690	Jan. 11	541	142	38	115
Flanigan, Thomas J., Butte City, Mont. Ter. Dumping-cart	358,192	Feb. 22	2112	557	38	837
Flanigan, Thomas J., Butte City, Mont. Ter. Dump-cart	371,750	Oct. 18	1440	{ 372 373 }	{ 41 41 }	302
Flater, Henry, assignor of one-half to A. L. Davis, Findlay, Ohio. Device for jointing the teeth of saws	355,307	Jan. 4	20	6	38	6
Flater, Henry, and A. L. Davis, Findlay, Ohio. Saw-set	356,460	Jan. 25	1666	436	38	341
Flato, Friderich W., Flatonia, Tex. Hay-press	373,449	Nov. 22	1769	469	41	827
Flaugher, John H., and A. B. Scott, Manchester, Ohio. Automatic bell-alarm for elevator-cages	356,461	Jan. 25	1667	436	38	341
Fleak, Robert F., assignor of one-half to M. A. Williams, Stuart, Iowa. Mechanical movement	367,340	July 26	2199	590	40	439
Flechter, Wolf, Covington, Ky. Method of and means for stuffing dolls	371,751	Oct. 18	1441	373	41	302
Fleck, Richard, Berlin, Germany. Machine for making wood wool	370,461	Sept. 27	1667	444	40	1371
Fleharty, William F., assignor of one-half to J. W. Myers, Norwalk, Ohio. Kite	368,525	Aug. 16	1719	458	40	795

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Fleming, Charles F. (See Fleming, George A. and C. F.)						
Fleming, George A. and C. F., San José, Cal. Fruit-drier	362,736	May 10	947	{ 258 259 }	{ 39 }	657
Fleming & Hamilton. (See Forster, Casper, assignor.)						
Fleming, Henry, Kansas City, Mo. Door-hanger	373,178	Nov. 15	1360	360	41	739
Fleming, James, Troy, N. Y. Apparatus for shaping molds	363,620	May 24	2204	571	39	913
Fleming, Owen T., Columbus, Ohio. Pencil-holder	361,583	Apr. 19	1701	439	39	333
Fleming, Peter F., Huntsville, Mo. Horse hay-rake	355,691	Jan. 11	542	142	38	115
Fleming, Peter F., Huntsville, Mo. Hay elevator and stacker	374,787	Dec. 13	882	231	41	1228
Fleming, Richard, assignor to himself and V. Fogarty, Boston, Mass. Attaching and controlling jury-rudders	361,277	Apr. 19	1281	329	39	255
Flenniken, Theodore M., assignor to N. C. Thompson, Rockford, Ill. Grain-binder	367,285	July 26	2118	{ 570 571 }	{ 40 }	423
Fletcher, Allen F., Athol, Mass. Pump and valve	367,139	July 26	1902	514	40	383
Fletcher, Benjamin L., assignor of one-half to J. E. Shephard, Cincinnati, Ohio. Wire-fence machine	361,005	Apr. 12	885	223	39	168
Fletcher, Edwin J., New York, N. Y. Show-case	363,621	May 24	2205	571	39	913
Fletcher, Fremont C. (See Bradshaw and Lapoint, assignors.)						
Fletcher, Henry, Providence, R. I. Jewelry-pin	362,737	May 10	949	259	39	657
Fletcher, John M., Concord, N. H. Fountain-spittoon	369,174	Aug. 30	2631	698	40	990
Fletcher, John R., Dayton, Ohio. Electric-wire-clamp insulator	368,284	Aug. 16	1387	366	40	730
Fletcher, John R., assignor of one-half to J. E. Lowes, Dayton, Ohio. Pulley	360,675	Apr. 5	398	101	39	75
Fletcher, Taylor B., Portage, Wis. Dental matrix	369,701	Sept. 13	538	148	40	1146
Flett, John H., assignor of part to J. Goggan and W. A. Hogan, Galveston, Tex. Automatic car-uncoupler	364,236	June 7	52	16	39	1098
Flett, John H., assignor of part to J. Goggan and W. A. Hogan, Galveston, Tex. Car-coupling	364,237	June 7	53	16	39	1099
Fleuss, Henry A., Newtown, Isle of Wight, England. Air-pump	363,622	May 24	2207	{ 571 572 }	{ 39 }	914
Flick, John P., Ottawa, Ill. Grocer's cabinet	372,972	Nov. 8	1038	278	41	670
Flick, Otis C., Brooklyn, assignor to Doane & Wellington Manufacturing Company, New York, N. Y. Secondary battery	370,134	Sept. 20	1192	315	40	1274
Flinn, John, Cleveland, Ohio. Couch-pillow	370,772	Oct. 4	31	8	41	9
Flint, George. (See Taber, Robert H., assignor.)						
Flint, John Q., Wilton, N. H. Constructing wagon-seats	369,510	Sept. 6	266	74	40	1084
Flint, William, Philadelphia, Pa. Suspension-hook	359,718	Mar. 22	1910	484	38	1286
Flint, William, Philadelphia, Pa. Cabinet for sanitary toilet-paper	363,379	May 24	1837	483	39	843
Flocke, Robert. (See Isidor and Flocke.)						
Flocke, Robert. (See Lichtenstein and Flocke.)						
Flohre, Israel, and C. Perrin, Springfield, Ohio. Combined clod-crusher and harrow	362,071	May 3	27	8, 9	39	478
Florence Machine Company. (See Goodell, Dexter W., assignor.)						
Florsheim, Simon, Chicago, assignor of one-half to T. H. Ball, Aurora, Ill. Glove-fastener	356,310	Jan. 18	1450	380	38	293
Floryanowicz, Zygmunt, Warsaw, Russia. Car-starter	361,753	Apr. 26	1952	508	39	387
Flournoy, C. H., et al. (See Crozier, William C., assignor.)						
Flower, James M., Walnut Ridge, Ark. Saw-setting device	361,278	Apr. 19	1282	329	39	255
Flower, John G., Boston, Mass. Window-brusher	361,584	Apr. 19	1702	439	39	333
Flowers, Malon I., Springfield, assignor of one-half to J. E. Jones, Greene County, Mo. Electric lock	363,623	May 24	2209	{ 572 573 }	{ 39 }	914
Floyd, Alexander P. (See Brandes, Henry H., assignor.)						
Floyd, Anna B., assignor, by mesne assignments, to F. C. Floyd, Boston, Mass. Waterproof bonnet or hat	366,623	July 12	1200	321	40	237
Floyd, Byron B., Haverhill, Mass. Sliding-hill and toboggan to be used therewith	374,736	Dec. 13	809	212	41	1214
Floyd, Byron B., assignor of one-half to S. E. Jackman, Haverhill, Mass. Sliding-hill and toboggan therefor	367,286	July 26	2124	572	40	424
Floyd, Frederic C. (See Floyd, Anna B., assignor.)						
Floyd, John, assignor of part to J. H. Stewart, Lynchburg, Va., H. C. Elliot, G. F. Cummings, and J. B. Van Gieson, New York, N. Y. Cigarette-machine	373,351	Nov. 15	1616	{ 426 427 428 }	{ 41 }	786
Floyd-Jones, Robert H. (See Dickson, Charles K., assignor.)						
Flynn, Erastus M. (See Clough and Flynn.)						
Flynn, John, Vail, Iowa. Dropping and marking attachment for corn-planters	361,935	Apr. 26	2215	575	39	436
Flynn, John, Macedon, and J. F. Kilburn, South Yarra, Victoria. Wire-stretcher	374,668	Dec. 13	715	188	41	1195
Flynn, John O. (See Wintz, James P., assignor.)						
Flynt, Chester D., Brooklyn, assignor to Universal Automatic Lubricator Company, New York, N. Y. Car-axle lubricator	368,937	Aug. 30	2311	613	40	926
Foard, Joseph R. (See Price, George W., assignor.)						
Foellmer, Fritz, West Point, Nebr. Motor	359,858	Mar. 22	2143	{ 540 541 }	{ 38 }	1327
Foerster, Emanuel, New York, N. Y. Machine for sawing stone. (Reissue)	10,844	June 14	1202	317	39	1318
Fogarty, James H., New York, N. Y. Steam-engine	369,511	Sept. 6	267	74	40	1085
Fogarty, Thomas B., Brooklyn, assignor to J. A. Balestier, trustee, New York, N. Y. Process of and apparatus for making ammonium sulphate	371,186	Oct. 11	643	165	41	135
Fogarty, Thomas B., Brooklyn, assignor to J. A. Balestier, trustee, New York, N. Y. Process of and apparatus for making ammonia	371,187	Oct. 11	646	165	41	135
Fogarty, Vincent. (See Fleming, Richard, assignor.)						
Fogelberg, Carl, Erie, Pa. Organ stop-action	355,984	Jan. 11	989	260	38	201
Fogelberg, Carl, Erie, Pa. Bellows-action for reed-organs	355,985	Jan. 11	990	260	38	201
Fogelquist, Adolf F., Newark, N. J. Machine for bending and cutting wire	369,051	Aug. 30	2467	{ 654 655 656 }	{ 40 }	957
Foley, James S., Chicago, Ill. Pedal-cover for organs	362,266	May 3	276	77	39	527
Foley, James S., Chicago, Ill., assignor of one-half to J. Ruse, Toronto, Canada. Organ-pedal	367,034	July 26	1747	471	40	355
Foley, John, Jr., New York, N. Y. Watch-bracket for velocipedes	369,702	Sept. 13	539	148	40	1146
Foley, John B., et al. (See McCloskey, Edward, assignor.)						
Foley, John B., New Haven, Conn. Gas-stove	368,938	Aug. 30	2312	614	40	926
Foley, John F., Attleborough, Mass. Separable pin	363,816	May 31	2485	645	39	972
Foley, Timothy M. (See Gill and Foley.)						
Folger, Jacob, Toledo, Ohio. Meat-spreader	370,615	Sept. 27	1902	505	40	1414
Folk, Deborah C. (See Whitney, James H., assignor.)						
Folksdorf, Carl, et al. (See Hewett, Francis M., assignor.)						
Follett, Edward P. (See Kelly and Follett.)						
Follett, Edward P., assignor to J. H. Kelly, Rochester, N. Y. Apparatus for bending tubes	360,288	Mar. 29	2836	721	38	1462

Alphabetical list of patentees—Continued.

Name residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Follett, Willis J., North Attleborough, Mass. Packing-holder for horseshoes	372,662	Nov. 8	561	153	41	586
Folliott, James H., Port Clinton, Ohio. Mower and reaper guard	356,357	Jan. 18	1523	399	38	306
Follmer, Jacob, Syracuse, N. Y. Fertilizer-distributor	361,403	Apr. 19	1453	375	39	286
Folmer, William F., Brooklyn, assignor to Hektograph Company, New York, N. Y. Lamp-burner	365,739	June 28	2264	589	39	1540
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Producing improved color effects in two-ply ingrain carpeting	356,063	Jan. 11	1090	287	38	220
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Producing improved color effects in two-ply ingrain carpets	371,571	Oct. 18	1183	308	41	248
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Producing improved color effects in three-ply ingrain carpets	371,572	Oct. 18	1185	308	41	249
Folsom, John G., Winchendon, Mass. Combined fire-arm and air-gun	370,329	Sept. 20	1457	391	40	1324
Folsom, Nehemiah T., Boston, Mass., assignor to P. P. Folsom, Manchester, N. H. Stocking	369,637	Sept. 6	452	126	40	1121
Folsom, Noah D., New Haven, Conn. Fire-arm having automatic brace for the breech-block	357,660	Feb. 15	1344	354	38	690
Folsom, P. P. (See Folsom, Nehemiah T., assignor.)						
Folsome, Charles F., White Wright, Tex., assignor of one-half to E. E. Mitchell, Greenville, Ill. Wagon-body	375,618	Dec. 27	2064	536	41	1469
Fonda, Isaac, Laconia, N. H. Turning-lathe tool	362,827	May 10	1078	292	39	681
Fonerden, Clarence A., New York, N. Y. Attachment for brushes, &c	360,872	Apr. 12	681	178	39	133
Fones, John H., Oakland, Cal. Conformer for thumbs	373,651	Nov. 22	2087	557	41	887
Fontaine, Allen S., New York, N. Y. Speaking-tube	357,589	Feb. 15	1237	325	38	671
Fontaine, Eugene, Toledo, Ohio. Signal for railway-crossings	366,086	July 5	456	123	40	86
Fontaine, Eugene, Toledo, Ohio. Railway-signal	374,053	Nov. 29	2654	713	41	1005
Fontaine, Eugene, Toledo, Ohio. Railway-switch	374,054	Nov. 29	2656	713	41	1005
Fontaine, Eugene, Wagon Works, Ohio. Railway-crossing	370,462	Sept. 27	1670	445	40	1372
Fontaine, Eugene, Wagon Works, Ohio. Railway-crossing	370,463	Sept. 27	1672	445	40	1372
Fontaine, Louis A., Toledo, Ohio, assignor of one-half to C. F. Collot, Chicago, Ill. Wire-nail machine	360,343	Mar. 29	2899	{ 738 } { 739 }	{ 38 }	1474
Foos Manufacturing Company. (See Winchell, James F., assignor.)						
Foote, Allen R., Philadelphia, Pa. Vector tip and holder	355,308	Jan. 4	21	6	38	6
Foote, Allen R., Philadelphia, Pa. Inhaler	355,309	Jan. 4	23	7	38	6
Foote, Charles B., <i>et al.</i> (See Rew, Richard A., assignor.)						
Foote, David M. (See Cameron, Ezra G., assignor.)						
Foote, Hubert T., New York, N. Y. Attachment for gas-burners	361,818	Apr. 26	2045	532	39	404
Foote, Lewis A., Lansing, Minn. Seal-lock	371,050	Oct. 4	460	115	41	90
Foote, Theodore M., assignor of five-eighths to H. C. Goodspeed, Boston, Mass., and F. Reed, Bath, Me. Refrigerating structure	363,624	May 24	2213	573	39	915
Foote, Theodore M., Boston, Mass., assignor of five-eighths to F. Reed, Bath, Me., and H. C. Goodspeed, Boston, Mass. Food-preserver	363,625	May 24	2215	573	39	915
Foran, John, assignor to Abendroth Brothers, Port Chester, N. Y. Apparatus for making sand cores	368,915	Aug. 23	2272	604	40	910
Forbes, Charles, St. Paul, Minn. Car brake and starter	371,883	Oct. 18	1646	425	41	342
Forbes, Frederick A., Detroit, Mich. Tip for telephone-cords	375,280	Dec. 20	1596	418	41	1372
Forbes, George, London, county of Middlesex, England. Apparatus for measuring electricity	366,824	July 19	1477	394	40	295
Forbes, James H., assignor of one-half to Steam Gauge and Lantern Company, Rochester, N. Y. Lamp	362,828	May 10	1079	292	39	681
Forbes, Martin W., Miamisburg, Ohio. Combined truck and jack	368,883	Aug. 23	2221	591	40	901
Forbes, Walter T. (See Leder and Forbes.)						
Forbes, William D., Bridgeport, Conn. Pipe and rod vise	356,871	Feb. 1	183	49	38	456
Forbes, William D., Bridgeport, Conn. Die-stock	363,626	May 24	2216	574	39	915
Forbes, William H. (See Clark, Dwight S., assignor.)						
Forbes, William H. (See Clark and Wendt, assignors.)						
Forbes, William H., assignor to D. I. Boehm, New York, N. Y. Machine for cutting cigar wrappers and binders	356,113	Jan. 18	1184	313	38	243
Forbis, Herbert K., Columbus, Ohio. Tool for dressing emery-wheels	367,287	July 26	2125	572	40	424
Forchheimer & Co., Paul. (See Peres, Max, assignor.)						
Forchheimer, Frederick, <i>et al.</i> (See Perry, Nelson W., assignor.)						
Ford, Archibald, San Francisco, Cal. Gas-regulator	367,801	Aug. 9	684	185	40	588
Ford, Benjamin, Middlesbrough-on-Tees, county of York, and J. Moncur, Distington, county of Cumberland, England. Regenerative hot-blast stove	364,998	June 14	1147	{ 300 } { 301 }	{ 39 }	1309
Ford, Charles S., assignor of one-half to J. S. Downie, Philadelphia, Pa. Gas-burner	362,829	May 10	1080	293	39	681
Ford, Frederick A., New York, N. Y. Mold for measuring and partially shaping cigar-fillers	362,267	May 3	277	77	39	527
Ford, George A., Cleveland, Ohio. Metal tackle-block	368,144	Aug. 9	1164	{ 310 } { 311 }	{ 40 }	680
Ford, George H. (See Crandell, Edgar J., assignor.)						
Ford, Henry B., assignor to Perkins & Welsh, New York, N. Y. Cylinder for air-pumps and air-compressors	363,453	May 24	1949	510	39	862
Ford, Henry B., assignor to Perkins & Welsh, New York, N. Y. Refrigerator for ice and cold-air machines	363,454	May 24	1950	510	39	862
Ford, Henry B., assignor to Perkins & Welsh, New York, N. Y. Condenser for ice-machines	363,455	May 24	1951	510	39	863
Ford, Henry B., assignor to Perkins & Welsh, New York, N. Y. Stuffing-box for air or gas pumps	363,456	May 24	1951	511	39	863
Ford, Henry B., assignor to Perkins & Welsh, New York, N. Y. Apparatus for and process of the manufacture of sulphurous oxide	363,457	May 24	1953	511	39	863
Ford, James E., Philadelphia, Pa. Grappling-tongs	356,630	Jan. 25	1916	502	38	388
Ford, James H., assignor to C. H. Leonard, Grand Rapids, Mich. Refrigerator	365,740	June 28	2265	590	39	1541
Ford, James S., Irving College, Tenn. Window, picture, or other frame	369,512	Sept. 6	269	75	40	1085
Ford, Thomas. (See Bardo and Ford.)						
Ford, Thomas J., and P. B. Waters, Geneva, Ohio. Barrel swing and support	367,802	Aug. 9	685	185	40	588
Ford, Thomas P., Jr., London, England. Hydraulic lift	367,612	Aug. 2	371	104	40	522
Ford, William J. (See Cooper and Ford.)						
Ford, William S., Denver, Colo. Multiple switch-board	357,821	Feb. 15	1580	411	38	733
Fordred, John, Tottenham, county of Middlesex, England. Preparing grain or cereals	363,056	May 17	1407	372	39	750
Fordred, John, Tottenham, county of Middlesex, England. Apparatus for torrefying grain, &c	363,057	May 17	1409	373	39	750
Forehand, Sullivan. (See Howe, John C., assignor.)						
Forehand, Sullivan, Worcester, Mass. Revolver	355,761	Jan. 11	642	168	38	135
Foreman, David H., Lancaster, Pa. Railway switch-stand	357,475	Feb. 8	1053	{ 278 } { 279 }	{ 38 }	626

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Forest, John M. (See Whaley and Forest.)						
Forg, Peter, Somerville, Mass. Bolt	370,773	Oct. 4	32	8	41	9
Forg, Peter, Somerville, Mass. Hinge	373,352	Nov. 15	1623	428	41	787
Forg, Peter, Somerville, Mass. Hinge	374,788	Dec. 13	884	232	41	1228
Forgie, William, Washington, Pa. Oil-well rig	371,573	Oct. 18	1186	{ 308 } 309	{ 41 } 41	249
Forman, David D., Hackett City, Ark. Fruit-basket	370,385	Sept. 27	1550	415	40	1350
Forman, William A., Roselle, N. J. Wheel	375,058	Dec. 20	1294	338	41	1313
Forney, Matthias N., New York, N. Y. Car-seat	360,148	Mar. 29	2626	664	38	1422
Forrester, Jacob V. (See Lasher and Forrester.)						
Forrester, Samuel, Allegheny City, Pa. Pencil-sharpener	372,258	Oct. 25	2209	566	41	455
Forshaw, Charles F., Bradford, England. Bed-pan	374,121	Nov. 29	2753	740	41	1024
Forshee, Walter, Willett, N. Y. Sap-bucket	366,210	July 12	627	171	40	126
Forssell, Erik H., assignor of one-half to A. Erikson, Bridgeport, Conn. Folding stool	361,279	Apr. 19	1283	329	39	255
Forster, Casper, assignor to Fleming & Hamilton, Pittsburg, Pa. Cake or bread box	370,464	Sept. 27	1672	445	40	1372
Forster, Charlotte M. (See Freeman, Charles C., assignor.)						
Forster, Edward E., New York, N. Y. Pen or pencil holder	372,903	Nov. 8	936	253	41	652
Forster, Frank N., Buffalo, N. Y. Paper box	358,806	Mar. 1	560	140	38	1008
Forster, William E., Lawrencetown, Nova Scotia, Canada. Gun-cleaner	363,951	May 31	2678	695	39	1007
Forsythe, Andrew J. and G. W., Kokomo, Ind. Wire-fence machine	362,439	May 3	511	144	39	574
Forsythe, George W. (See Forsythe, Andrew J. and G. W.)						
Fort Wayne Electric Light Company. (See Slaterry, Marmaduke M. M., assignor.)						
Forter, Samuel, Marysville, Kans. Thill-coupling	373,652	Nov. 22	2088	558	41	888
Forton, Dwight E. (See Cox and Forton.)						
Forward, Walter, Shingletown, Cal. Construction of navigable vessels	364,638	June 14	608	163	39	1210
Fosbery, George V., Weston-super-Mare, county of Somerset, England. Magazine-gun	356,311	Jan. 18	1451	381	38	293
Fosbery, George V., Weston-super-Mare, county of Somerset, England. Magazine-gun	366,211	July 12	628	{ 171 } 172	{ 40 } 40	127
Fosgate, Daniel O., Aurora, Ill. Suspenders	364,168	May 31	2988	776	39	1068
Fosgate, Daniel O., Aurora, Ill., assignor to H. B. Harford, Scott County, Iowa. Bustle	363,458	May 24	1954	511	39	863
Foss, Byron E., Indianapolis, Ind. Piston-rod packing	368,916	Aug. 23	2274	605	40	911
Foss, Charles L. (See Nourse and Foss.)						
Foss, L. Bacon, assignor to Dover Stamping Company, Boston, Mass. Hollow articles of sheet metal	358,970	Mar. 8	816	206	38	1060
Foss, L. Bacon, assignor to Dover Stamping Company, Boston, Mass. Nose for metallic vessels	358,971	Mar. 8	817	{ 206 } 207	{ 38 } 38	1060
Foss, Loretto H., Portland, Me. Air-valve for oil-cans	362,072	May 3	29	9	39	478
Foster, Aaron T., Chillicothe, Ohio. Corn-planter	371,051	Oct. 4	461	115	41	91
Foster, Abraham G. W., Newnan, Ga. Car-coupling	364,810	June 14	877	231	39	1259
Foster, Benjamin C., Baltimore, Md. Cash-box	374,149	Nov. 29	2792	749	41	1031
Foster, Benjamin R., St. Louis, Mo. Automatic grain-scale	368,662	Aug. 23	1904	507	40	839
Foster, Charles E., Washington, D. C., assignor to Hydraulic Elevator Company, Chicago, Ill. Hydraulic engine	357,147	Feb. 1	601	154	38	531
Foster, Charles H. W. (See Pratt and Foster.)						
Foster, Charles R., Chicago, Ill. Rotary plow	360,090	Mar. 29	2519	641	38	1404
Foster, Chauncey W. (See Felt, Dorr E., assignor.)						
Foster, Eldridge M., assignor of one-half to G. C. Bolgiano, Baltimore, Md. Dumb-waiter	359,437	Mar. 15	1461	374	38	1187
Foster, Frank A., Norwich, Conn. Ejector mechanism for revolvers	361,819	Apr. 26	2046	532	39	404
Foster, Frank F., Mount Pleasant, Mich. Sled-propeller	359,504	Mar. 15	1561	399	38	1206
Foster, George W., Galveston, Tex. Electric call or signal apparatus	371,752	Oct. 18	1443	373	41	302
Foster, James F., Buffalo, N. Y. Mincing-knife	375,483	Dec. 27	1869	488	41	1434
Foster, John W., Washington, D. C. Tension device for sewing-machines	373,179	Nov. 15	1361	{ 360 } 361	{ 41 } 41	739
Foster, Joseph M., and B. F. Kent, Saugus; said Kent assignor, by mesne assignments, to B. W. Thompson, Boston, Mass. Rotary kerf-spreader	361,218	Apr. 12	1205	306	39	228
Foster, Mark W., Pecatonica, Ill. Gate	370,863	Oct. 4	166	44	41	33
Foster, Michael A., St. Louis, Mo. Fire-lighter	360,382	Mar. 29	2966	752	38	1484
Foster, Orlando A., et al. (See Hamilton, Benjamin F., assignor.)						
Foster, Orra I., Haverhill, Mass. Hat-hook	357,192	Feb. 8	670	174	38	554
Foster, Oscar S., Utica, N. Y. Folding bed-bottom	366,718	July 19	1336	357	40	270
Foster, Oscar S., Utica, N. Y. Locking device for bed-bottoms	372,369	Nov. 1	128	39	41	494
Foster, Oscar S. and W. S., Utica, N. Y. Bed-bottom	356,114	Jan. 18	1185	314	38	243
Foster, Samuel B. (See Moore, Homer J., assignor.)						
Foster Stove Company. (See Holliday, George H., assignor.)						
Foster, William S. (See Foster, Oscar S. and W. S.)						
Foucher, Auguste. (See Foucher, Léon and A.)						
Foucher, Léon and A., Paris, France. Machine for casting and finishing type	359,779	Mar. 22	2014	{ 509 } 510	{ 38 } 38	1303
Fouillet-Chevance, Marie H., Neauphle-le-Château, Seine-et-Oise, assignor to Sté. Alamy et Oriol, France. Braid for binding	363,627	May 24	2217	575	39	915
Foulke, John F., Philadelphia, Pa. Machine for uprooting trees	372,527	Nov. 1	349	96	41	536
Fountain, George W., Cameron, Mo. Biographical photograph-card	370,186	Sept. 20	1269	337	40	1288
Fountain, Vincent, West New Brighton, N. Y. Ornamenting sheet metal	356,757	Feb. 1	23	7	38	427
Fourness, Henry, Manchester, County of Lancaster, England. Regenerative gas-lamp	362,830	May 10	1081	293	39	681
Fournier, François. (See Tougas and Fournier.)						
Foust, William R. (See Steinfield and Foust.)						
Fouts, Frank A., Washington, D. C. Cigar-holder	364,504	June 7	420	114	39	1167
Fouts, Frank A., Washington, D. C. Cigar-holder	368,466	Aug. 16	1641	438	40	781
Fouts, Frank A., Washington, D. C. Cigar-holder	368,467	Aug. 16	1642	438	40	781
Fouts, Frank A., Washington, D. C. Toy pistol	372,136	Oct. 25	2033	521	41	420
Fouts, James A., Ottawa, Kans. Car-coupling	368,709	Aug. 23	1979	526	40	854
Fowble, Elizabeth, St. Paul, Minn. Culinary apparatus	365,915	July 5	225	59	40	43
Fowle, John L., assignor to W. F. Fowle, Woburn, Mass. Machine for milling the ends of band-saws	369,930	Sept. 13	878	{ 232 } 233	{ 40 } 40	1209
Fowle, Walter F. (See Fowle, John L., assignor.)						
Fowler, Alfred B., Exeter, N. H. Heel-burnishing machine	372,612	Nov. 1	481	{ 130 } 131	{ 41 } 41	560
Fowler, Arthur H., Buffalo, N. Y. Safety water-gage	364,756	June 14	788	208	39	1243
Fowler, Chester W., Eastlake, Mich. Feed-water heater	373,520	Nov. 22	1902	504	41	851
Fowler, E. L. (See Taliaferro, Eilbeck H., assignor.)						
Fowler, Frederick A., New Haven, Conn. Apparatus for cutting flexible material	360,149	Mar. 29	2627	664	38	1422
Fowler, George B., Brooklyn, assignor of one-half to E. H. Seemann, New York, N. Y. Picture cord and hook hanger	357,312	Feb. 8	829	216	38	584

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Fowler, George B., Brooklyn, assignor to W. A. Wolff, New York, N. Y. Combined cane and cigar and cigarette case	368,823	Aug. 23	2138	567	40	883
Fowler, George L. (See Gunther and Fowler.)						
Fowler, Herbert E., assignor of one-half to L. N. Blydenburgh, New Haven, Conn. Brush	359,250	Mar. 15	1191	310	38	1137
Fowler, Herbert E., assignor of one-half to L. N. Blydenburgh, New Haven, Conn. Brush	369,985	Sept. 13	962	254	40	1224
Fowler, Herbert E., assignor of one-half to L. N. Blydenburgh, New Haven, Conn. Polish-ing-wheel	373,653	Nov. 22	2089	558	41	888
Fowler, Hiram H., Meadville, Pa. Swing	364,713	June 14	716	190	39	1231
Fowler, Hiram H., Meadville, Pa. Swing	367,204	July 26	1984	536	40	400
Fowler, John W., Brooklyn, N. Y. Stove-box for car-heaters	366,087	July 5	457	124	40	86
Fowler, John W., Brooklyn, N. Y. Stove-door	366,088	July 5	459	{ 124 125 }	{ 40 41 }	86
Fowler, John W., Brooklyn, N. Y. Heating-stove	371,134	Oct. 4	571	{ 145 146 }	{ 41 41 }	113
Fowler, Joseph C., Chaneyville, Md. Horse-detacher	372,528	Nov. 1	351	97	41	537
Fowler, Joseph C., and E. A. Henkle, assignors to American Printing Press Company, Washington, D. C. Printing-machine	373,353	Nov. 15	1624	{ 428 429 430 }	{ 41 41 41 }	787
Fowler, Joseph C., and E. A. Henkle, assignors to American Printing Press Company, Washington, D. C. Printing-machine	373,354	Nov. 15	1629	{ 430 431 431 }	{ 41 41 41 }	788
Fowler, Joseph C., and E. A. Henkle, assignors to American Printing Press Company, Washington, D. C. Printing-machine	373,355	Nov. 15	1631	{ 431 432 432 }	{ 41 41 41 }	788
Fowler, Joseph C., and E. A. Henkle, assignors to American Printing Press Company, Washington, D. C. Printing-machine	373,356	Nov. 15	1637	{ 432 433 434 }	{ 41 41 41 }	789
Fowler, Merwin, New Haven, Conn. Die for forming metallic clock-cases	368,526	Aug. 16	1720	{ 458 459 }	{ 40 40 }	795
Fowler, Nathaniel C., Jr., Winthrop, and E. W. Pope, Newton, Mass., assignors to Pope Manufacturing Company, Portland, Me. Calendar-stand	375,545	Dec. 27	1958	510	41	1451
Fowler, Philip H., and W. H. Chadwick, Gloucester City, N. J. Damper-regulator	363,459	May 24	1955	512	39	864
Fowler, Thaddeus, Shelton, assignor of one-half to T. B. De Forest, Birmingham, Conn. Nail-driving machine	355,762	Jan. 11	644	168	38	135
Fowler, Thaddeus, Shelton, and T. B. De Forest, Birmingham, Conn. Box-nailing machine	361,754	Apr. 26	1953	{ 508 509 }	{ 39 39 }	387
Fowler, William H. (See Bay and Fowler.)						
Fowler, William R., assignor to Mathai, Ingram & Co., Baltimore, Md. Fly-fan	358,807	Mar. 1	562	140	38	1008
Fowler, William R., assignor to Mathai, Ingram & Co., Baltimore, Md. Spring-motor	359,068	Mar. 8	945	241	38	1084
Fowles, James H., Orangeburg, S. C. Cultivator, harrow, and cotton-chopper	363,999	May 31	2752	714	39	1022
Fox, Amos W., Newton, Iowa. Stove-pipe joint and ventilator	371,052	Oct. 4	462	116	41	91
Fox, Frank A. (See Letson, Augustus F., assignor.)						
Fox, Frank A., assignor to Steele & Johnson Manufacturing Company, New York, N. Y. Button	363,628	May 24	2218	575	39	915
Fox, Frank A., New York, assignor of one-half to S. S. Gordon, Brooklyn, N. Y., and B. Franklin, Hoboken, N. J. Car-coupling	367,613	Aug. 2	372	105	40	523
Fox, George H., and F. H. Pope, Boston, Mass.; said Pope assignor to said Fox. Roll for buffing shoe-soles	369,513	Sept. 6	270	75	40	1085
Fox, George H., and L. W. Lombard, Boston, Mass.; said Lombard assignor to said Fox. Heel-stiffener machine	373,821	Nov. 29	2329	624	41	942
Fox, Henry C., Evansville, Ind., assignor to Fox Sad Iron Company, New York, N. Y. Lamp attachment for sad-irons	359,016	Mar. 8	883	225	38	1072
Fox, Ivan, Philadelphia, Pa. Eyeglasses	358,113	Feb. 22	1990	524	38	814
Fox, Ivan, Philadelphia, Pa. Eyeglasses or spectacles	366,471	July 12	964	263	40	192
Fox, Jacob G., assignor to L. A. Pratt, Bay City, Mich. Combined thread cutter and holder	367,035	July 26	1748	471	40	355
Fox, Joseph J., Bryn Mawr, assignor to J. W. Queen & Co., Philadelphia Pa. Camera-shutter	366,947	July 19	1638	439	40	326
Fox, Philo L., Bridgeport, Conn. Spirit-level	370,054	Sept. 20	1074	284	40	1252
Fox Sad Iron Company. (See Fox, Henry C., assignor.)						
Fox, Samson, Leeds, county of York, England. Making corrugated tubing	365,466	June 28	1846	479	39	1461
Fox, Thomas W., New York, N. Y. Button	366,769	July 19	1406	376	40	282
Fox, William, Leeds, county of York, England. Rolls for rolling wheel-tire bars	366,390	July 12	873	234	40	172
Fox, William, Leeds, county of York, England. Tire for vehicles	375,281	Dec. 20	1596	419	41	1372
Fox, William H., assignor of part to P. E. and R. W. Green, St. Louis, Mo. Combined paper file and cover	367,614	Aug. 2	373	105	40	523
Fox, William S., Short Creek, Ohio. Attachment for mowing-machines	359,351	Mar. 15	1326	344	38	1162
Fox, William T., Rochester, N. Y. Hydraulic elevator	369,703	Sept. 13	540	149	40	1147
Foy, Lawrence B., Audubon, Iowa. Feed-trough	372,529	Nov. 1	352	97	41	537
Fracher, Louis, Detroit, Mich. Wagon-spring	356,358	Jan. 18	1524	400	38	306
Fracher, Louis, and B. R. Hoyt, Detroit, Mich. Gate for draw-bridges	374,356	Dec. 6	272	72, 73	41	1098
Fraenkel, Louis. (See Weiss, Emil, assignor.)						
Fraley, William K., Lebanon, assignor of one-half to R. Silver, Indianapolis, Ind. Vehicle	357,956	Feb. 15	1755	458	38	766
France, John M. D., St. Joseph, Mo. Paper-file	374,467	Dec. 6	426	111	41	1127
France, Joseph R., New York, N. Y., assignor to Metallic Cap Manufacturing Company, Enfield, Conn. Blasting-cap	356,064	Jan. 11	1092	287	38	220
France, Joseph R., assignor to Metallic Cap Manufacturing Company, New York, N. Y. Blasting-cap	356,712	Jan. 25	2015	529	38	407
Francis, Alfred C. (See Francis, Lewis G., assignor.)						
Francis, Allan E., Cleveland, Ohio. Toy	370,465	Sept. 27	1673	445	40	1372
Francis, Charles, New Brunswick, N. J. Tool-holder	375,059	Dec. 20	1294	338	41	1313
Francis, George, Ansonia, Ohio. Apparatus for handling grain in bags	360,578	Apr. 5	271	67	39	52
Francis, George W., Buffalo, N. Y. Wedge for axes or other tools	364,238	June 7	55	16	39	1099
Francis, Lewis G., Chicago, assignor to A. C. Francis, Rochelle, Ill. Gas-lamp	365,336	June 21	1644	429	39	1410
Franck, Lewis E. (See Jennings, John, assignor.)						
Francken, Victor, Liege, and E. Bender, Brussels, Belgium, assignors to Leclanché Battery Company, New York, N. Y. Galvanic battery	364,639	June 14	609	.....	39	1210
Francy, John. (See Wight, Peter B., assignor.)						
Francy, John, Toronto, Ohio, assignor of one-half to P. B. Wight, Chicago, Ill. Machine for manufacturing wall-coping	371,574	Oct. 18	1187	309	41	249
Frank, Cyrus. (See Allyn, Dan. L., assignor.)						
Frank, Henry C., New York, N. Y. Cuff-holder	373,556	Nov. 22	1949	517	41	859
Frank, Levi, et al. (See Purdy, Albert L., assignor.)						
Frank, William E., and P. Reidel, Utica, N. Y. Heel-plate for rubbers	366,391	July 12	874	234	40	173
Franke, Henry, Brooklyn, N. Y., assignor to Barber Asphalt Paving Company. Apparatus for the manufacture of asphalt concrete for paving purposes	363,132	May 17	1511	{ 400 401 }	{ 39 39 }	770

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Frankel, Henry U., <i>et al.</i> (See Heinig, Frederick E., assignor.)						
Frankel, Leo. (See Campbell, George, assignor.)						
Frankenberg, Eduard, Hanover, Prussia, Germany. Polypantograph	370,939	Oct. 4	299	73	41	59
Franklin, Benjamin, <i>et al.</i> (See Fox, Frank A., assignor.)						
Franklin, Benjamin, Albion, N. Y. Fire-escape	366,948	July 19	1640	439	40	326
Franklin, Benjamin, Bradford, assignor of one-half to A. I. Wilcox, Smethport, Pa. Rail-way-rail joint	369,704	Sept. 13	542	149	40	1147
Franklin, Edward, Thomasville, Ga. Cotton chopper and cultivator	364,811	June 14	878	231	39	1259
Franklin, Francis M., and J. G. Ryersee, Jefferson, Iowa. Hame-coupling	366,161	July 5	556	150	40	105
Franklin, Isaac N., Lake View, Chicago, Ill. Combined seeder and fertilizer-distributor ..	364,002	May 31	2755	715	39	1022
Franklin, James H., Sandusky, Ohio. Lamp-filling can	363,737	May 24	2371	616	39	945
Franklin, William, New Haven, Conn. Filter	372,530	Nov. 1	354	97	41	538
Franklin, William B., assignor to Colt's Patent Fire Arms Manufacturing Company, Hart-ford, Conn. Magazine fire-arm	372,531	Nov. 1	356	98	41	538
Franks, Lewis W., Kyle, Tex. Bag	366,659	July 19	1252	335	40	254
Fransze, Petter J., Chicago, Ill. Splicing traction-cables	372,792	Nov. 8	763	206	41	621
Frasch, Herman, London, Ontario, Canada. Manufacture of soda by the ammonia process ..	361,355	Apr. 19	1389	{ 357 358 }	{ 39 }	273
Frasch, Herman, London, Ontario, Canada. Process of and apparatus for the manufacture of soda by ammonia	361,622	Apr. 19	1757	{ 455 456 }	{ 39 }	344
Frasch, Herman, Cleveland, Ohio, assignor to American Chemical Company, West Bay City, Mich. Process of and apparatus for making sodium carbonate by ammonia	363,952	May 31	2679	{ 695 696 697 }	{ 39 }	1007
Frase, Simon, and J. H. Cameron, North Industry, Ohio. Pulverizer	364,239	June 7	55	16	39	1099
Fraser, Edward D. and J., Brooklyn, N. Y. Bustle	364,003	May 31	2757	715	39	1023
Fraser, Edward D. and J., Brooklyn, N. Y. Bustle	371,135	Oct. 4	572	146	41	113
Fraser, George. (See Kirby and Fraser.)						
Fraser, James, Bridgeton, Mich. Wheel for vehicles	365,122	June 21	1344	356	39	1353
Fraser, John. (See Fraser, Edward D. and J.)						
Fraser, Norman, Arbroath, county of Forfar, Scotland. Method of plaiting and machinery therefor	369,514	Sept. 6	271	75, 76	40	1085
Fraser, Thomas A., Mitchell, Dak. Ter. Track-cleaner	369,986	Sept. 13	963	{ 254 255 }	{ 40 }	1224
Frasure, George W. (See Wooldridge and Frasure.)						
Frauenheim, Edward, <i>et al.</i> (See Epping, Henry, assignor.)						
Frawley, David, Fairhaven, Mass. Clamp for molders' flasks	359,251	Mar. 15	1191	310	38	1137
Frawley, John J. (See Lubin, Frawley, and Abraham.)						
Frawley, John J., assignor to S. Lubin, Philadelphia, Pa. Nose-piece for spectacles	357,121	Feb. 1	558	145	38	524
Fray, James. (See Fray, John S. and J.)						
Fray, John S. and J., Bridgeport, Conn. Tool-handle	360,426	Apr. 5	40	11	39	9
Frazee, John, New Orleans, La. Egg-carrier	364,004	May 31	2758	715	39	1023
Frazee, William C. (See Reed and Frazee.)						
Frazer, George, Williamsburg, Ind. Wagon-jack	361,997	Apr. 26	2321	605	39	453
Frazer, James S. (See Hillman, John H., assignor.)						
Frazer & Jones Co. (See Jones, Llewellyn E., assignor.)						
Frazier, John A., Georgesville, assignor of one-half to I. Moore, Harrisburg, Ohio. Car-coupling	365,807	July 5	69	20	40	15
Frazier, Joseph W., New York, N. Y. Cartridge-box	368,577	Aug. 23	1795	477	40	818
Frazier, Joseph W., New York, N. Y. Cartridge-box	368,578	Aug. 23	1796	478	40	818
Frazier, Joseph W., New York, N. Y. Cartridge-box	368,579	Aug. 23	1798	479	40	819
Frazier, Walter S., Aurora, Ill. Two-wheeled vehicle	361,685	Apr. 26	1860	482	39	372
Freck, William C., New Bedford, assignor of one-half to J. Hirsh, Columbus, Ohio. Hatch-way for elevators	368,145	Aug. 9	1167	311	40	680
Frederick, Mary E., <i>et al.</i> (See Stewart, Homer, assignor.)						
Fredericks, Christian A., Brooklyn, N. Y. Granulating-mill	368,710	Aug. 23	1981	526	40	854
Fredericks, Christian A., Brooklyn, N. Y. Refrigerator-building	373,228	Nov. 15	1446	381	41	754
Fredericks, Christian A., Brooklyn, N. Y. Refrigerator-building	373,229	Nov. 15	1448	382	41	755
Fredericks, John L., Le Grangeville, N. Y. Floor-jack	375,147	Dec. 20	1427	373	41	1338
Freed, Isaac, and J. A. Affleck, Harrisburg, Pa. Combined button and elastic shoe	373,230	Nov. 15	1450	382	41	755
Freeland, Francis T., Leadville, Colo. Jigger for separating ores	356,359	Jan. 18	1524	400	38	306
Freeland, James R., assignor of one-half to E. C. Bradley, Wellsville, N. Y. Doubletree ..	374,468	Dec. 6	427	111	41	1128
Freeman, Alexander H., New York, N. Y. Electrical matting	363,290	May 17	1720	450	39	811
Freeman, Augustus M., assignor to himself and C. S. Edgar, Metuchen, N. J. Ball-game ..	373,136	Nov. 15	1289	343	41	727
Freeman, Catherine R., administratrix. (See Freeman, Joseph.)						
Freeman, Charles C., Dixfield, assignor to C. M. Forster, Buckfield, Me. Machine for polishing and compressing tooth-picks	358,029	Feb. 22	1858	491	38	790
Freeman, Claudius G., Cincinnati, assignor of one-half to O. Simpson, College Hill, Ohio. Grinding-mill	357,767	Feb. 15	1516	{ 394 395 }	{ 38 }	720
Freeman & Co., H. H. (See Smallwood, John H., assignor.)						
Freeman, George W., Frankfort, Ind. Harness box-loop	355,310	Jan. 4	24	7	38	6
Freeman, Henry A., Wesley, Ind. Sulky-plow	355,445	Jan. 4	196	53	38	40
Freeman, J. W. (See Howard, John D., assignor.)						
Freeman, James P., Chicago, Ill., assignor of one-half to S. M. Bryan, Washington, D. C. Telephone-transmitter	356,034	Jan. 11	1051	276	38	212
Freeman, James P., Chicago, Ill., assignor to S. M. Bryan, Washington, D. C. Arrester for electric currents	367,901	Aug. 9	824	221	40	617
Freeman, John R., Lawrence, Mass., assignor to Scovill Manufacturing Company, Water-bury, Conn. Photographic apparatus	365,435	June 28	1799	{ 468 469 }	{ 39 }	1452
Freeman, Joseph, deceased; C. R. Freeman, administratrix and assignor of one-half to D. Henney, Hartford, Conn. Galvanic battery	374,669	Dec. 13	717	188	41	1195
Freeman, Joseph B., Battersea, county of Surrey, England. White pigment	375,060	Dec. 20	1297	.....	41	1313
Freeman, Melvin P., Somerville, assignor of one-half to F. L. Pierce, Boston, Mass. Piston-meter	374,530	Dec. 6	518	136	41	1146
Freeman, Michael, Racine, Wis. Seed-sower	364,005	May 31	2759	716	39	1023
Freeman, Samuel D., Fort Thomas, Ariz. Ter. Portable bath-tub	356,582	Jan. 25	1839	482	38	373
Freer, Charles H., Blue Earth City, Minn. Strap-buckle	369,705	Sept. 13	543	149	40	1147
Freer, Charles S., New York, N. Y., assignor to E. Todd & Co. Roughening pens	362,885	May 10	1162	310	39	696
Frees, Chancy A., New York, N. Y. Artificial leg	368,580	Aug. 23	1798	479	40	819
Frees, Louis C. F., New York, N. Y. Buckle	361,623	Apr. 19	1764	456	39	345
Frees, Louis C. F., New York, N. Y. Tip for scarf-neckbands	366,162	July 5	557	152	40	105
Freese, John D., Chicago, Ill. Vegetable-slicer	365,467	June 28	1846	480	39	1461
Frega, Guiseppe, Philadelphia, Pa. Tailor's measure	362,579	May 10	716	199	39	614
Frei, Henry, Kansas, Ill. Roofing-cement	364,405	June 7	278		39	1141

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Freise, Eduard. (See Bosse, Friese, and Wolters.)						
Frekker, Kathrine, assignor of one-half to P. Hanson, Chicago, Ill. Window-reflector	366,624	July 12	1200	321	40	237
Frelinghuysen, George G. (See Higbie, Moses S., assignor.)						
Fremont Drop Forge Company <i>et al.</i> (See Burdsall, Stephen, assignor.)						
French, Byron A., Pawtucket, R. I. Saw-buck	371,188	Oct. 11	648	166	41	136
French, C. Hermon, and A. T. Gifford, Hopedale, assignors to Shaw Stocking Company, Lowell, Mass. Device for changing speed	360,383	Mar. 29	2968	752	38	1485
French, Carmi M., Waterford, Mich. Potato-digger	375,484	Dec. 27	1870	{ 488 489 }	{ 41 41 }	{ 1434 1434 }
French, Charles H. H., Hollister, Cal. Hay-press	371,932	Oct. 25	1718	444	41	365
French, Charles M., Pittsburg, Pa. Manufacture of plow-blades	356,530	Jan. 25	1760	458	38	358
French, Clinton, assignor of one-half to J. P. Humphrey, Cleveland, Ohio. Roofing	359,925	Mar. 22	2243	564	38	1346
French, Dennis T. (See Richards and French.)						
French, Harlow, New York, N. Y. Rope ladder	366,825	July 19	1480	395	40	295
French, Heman R., assignor to G. E. Dumas, Waterbury, Vt. Butter-tub	367,384	Aug. 2	37	10	40	458
French, Henry A., Dimondale, Mich. Pump	362,947	May 17	1251	332	39	719
French, John A., assignor, by mesne assignments, to T. Kane, Chicago, Ill. Loom-picker	374,893	Dec. 13	1034	271	41	1258
French, John H., Rochester, N. Y. Stove-pipe shelf	360,427	Apr. 5	41	11	39	9
French, John H., Rochester, N. Y. Folding school-globe	374,789	Dec. 13	885	232	41	1228
French, John S., Knight's Landing, Cal. Wagon-scraper	367,751	Aug. 2	602	163	40	564
French, Josiah F., Philadelphia, Pa. Bucksaw	375,061	Dec. 20	1297	338	41	1313
French, Peter W., trustee. (See Meacom, George, assignor.)						
French, Stephen H., and W. J. Maltby, Baird, Tex. Nut-lock	365,741	June 28	2266	590	39	1541
French, W. F. (See Penfield, Charles W., assignor.)						
French, William A., Senatobia, Miss. Insecticide	370,733	Sept. 27	2082	.....	40	1447
Frenier, John H., Rutland, Vt. Pump	367,803	Aug. 9	687	186	40	589
Frenot, Louis D., Newark, N. J. Convertible button	363,738	May 24	2372	616	39	945
Frere, Nestor, London, county of Middlesex, England. Combination watch-chain and pen and pencil holder	367,804	Aug. 9	689	186	40	589
Freschl, Carl, Milwaukee, Wis. Mitten	373,281	Nov. 15	1513	399	41	767
Fretwell, William A., Reidsville, N. C. Plow	374,829	Dec. 13	944	246	41	1240
Fretz, Emil. (See Waespi, Fretz, Spellman, and Frey.)						
Freudenberg, William, New York, N. Y. Coal-scuttle	362,616	May 10	776	214	39	624
Freund, Robert G., Chicago, Ill. Sifter and strainer	360,579	Apr. 5	273	67	39	53
Frey, Arnold, Chicago, Ill. Hair-cutting implement	375,546	Dec. 27	1960	510	41	1451
Frey, John. (See Waespi, Fretz, Spellman, and Frey.)						
Frey, John A., Colesville, Md. Pitcher for sirup, milk, &c.	357,122	Feb. 1	559	145	38	524
Friburk, Plazi B., and F. A. Borer, Le Sueur, Minn. Sulky-plow	373,450	Nov. 22	1771	470	41	828
Frichette, Peter, Sheridan, Cal. Cultivator	356,631	Jan. 25	1917	503	38	388
Frick, William A., Los Angeles, Cal. Pipe-mold	365,176	June 21	1416	373	39	1367
Frie, Hermanus T., Curacao, West Indies. Tricycle	373,282	Nov. 15	1514	400	41	767
Fried, Joseph, New York, N. Y. Device for hanging stage-scenery	369,052	Aug. 30	2474	657	40	958
Friedlaender, Eugen, New York, N. Y. Manufacture of imitation flowers from fur	363,058	May 17	1412	373	39	750
Friedlaender, Paul, assignor to K. Oehler, Offenbach-on-the-Main, Germany. Combination of tetrazodiphenyl chloride with resorcin	361,404	Apr. 19	1455	.....	39	286
Friedman, Louis, New York, N. Y. Ear and neck protector	365,061	June 21	1252	330	39	1338
Friedmann, John C., New York, N. Y. Pocket-knife	361,755	Apr. 26	1955	510	39	388
Frielinghaus, Ferdinand, Voerde, Westphalia, Germany. Sheep-shears	359,252	Mar. 15	1192	311	38	1137
Friend, Adam M., Rawlins, Wyo. Ter. Manual motor	364,406	June 7	279	77	39	1141
Friensehner, Paul. (See Behan and Friensehner.)						
Frierson, Luther L. (See Knapp, Charles, assignor.)						
Fries, Charles, New York, N. Y. Pigment	358,926	Mar. 8	761	.....	38	1049
Frik, Louis, Philadelphia, Pa. Shoal-water alarm	358,655	Mar. 1	352	84	38	969
Frisbie, Edward C. (See Sibley, John L. B., assignor.)						
Frisbie, Frank D., Plantsville, Conn. Wagon end-gate	357,985	Feb. 15	1803	473	38	775
Frishmuth, Benoni. (See Bishop, Clement B., assignor.)						
Frishmuth, William, assignor to R. de Montgelas, W. H. Gaw, J. H. Clark, R. Ellis, H. Jungerich, and G. C. Potts, Philadelphia, Pa. Galvanic cell	358,030	Feb. 22	1859	491	38	791
Frishmuth, William, assignor to R. de Montgelas, W. H. Gaw, J. H. Clark, R. Ellis, H. Jungerich, and G. C. Potts, Philadelphia, Pa. Galvanic cell	358,031	Feb. 22	1860	492	38	791
Frishmuth, William, assignor to R. De Montgelas, W. H. Gaw, J. H. Clark, R. Ellis, H. Jungerich, and G. C. Potts, Philadelphia, Pa. Making aluminium chloride	359,601	Mar. 22	1747	.....	38	1256
Fritsche, Hermann, New York, N. Y. Watch-chain	369,053	Aug. 30	2476	657	40	958
Fritz, George J., St. Louis, Mo. Machine for corrugating metal rollers	369,239	Aug. 30	2708	719	40	1005
Fritz, James B. (See Matlock and Fritz.)						
Frizelle, Horace J., assignor of one-half to C. A. Hurlburt, Minneapolis, Minn. Heater ...	366,719	July 19	1337	358	40	270
Froehlich, Herman, Waterloo, Ind. Burial-vault	372,532	Nov. 1	362	99	41	539
Frogner, John G., Iola, Wis. Dump-cart	374,531	Dec. 6	520	136	41	1146
Frost, Charles H. (See Burkman, Walfrid, assignor.)						
Frost, Charles H., Chicago, Ill. Brick-kiln	364,240	June 7	57	17	39	1099
Frost, Charles H., Chicago, Ill. Construction of walls	364,241	June 7	58	17	39	1100
Frost, Charles H., Chicago, Ill. Construction of walls	364,242	June 7	59	18	39	1100
Frost, Charles W. (See Church, George W., assignor.)						
Frost, Daniel C., Springfield, Mass. Surcingle-fastening	373,521	Nov. 22	1903	505	41	852
Frost, Edward J. (See Dawson and Frost.)						
Frost, Edward J., Philadelphia, Pa. Temperature-regulator for carburetors	363,324	May 17	1767	463	39	820
Frost, Eli C., Elmira, N. Y. Heating-stove	367,510	Aug. 2	231	67	40	496
Frost, Eli C., Elmira, N. Y. Candy-furnace and oven combined	372,663	Nov. 8	562	153	41	586
Frost, George, <i>et al.</i> (See Haynes, Edgar K., assignor.)						
Frost, George, <i>et al.</i> (See Preston, Charles A., assignor.)						
Frost, George A., <i>et al.</i> (See Haynes, Edgar K., assignor.)						
Frost, George A., <i>et al.</i> (See Preston, Charles A., assignor.)						
Frost, George D., Concord, N. H. Device for tightening bands	373,017	Nov. 8	1112	296	41	683
Frost, George E., assignor to Frost Veneer Seating Company, (limited,) Sheboygan, Wis. Pattern	373,451	Nov. 22	1772	470	41	828
Frost, Horace J., Washington, D. C. Flushing-tank for water-closets	356,713	Jan. 25	2016	530	38	407
Frost, James H. (See Graves, Norman K., assignor.)						
Frost, James R., assignor of one-half to G. B. Safford, Skowhegan, Me. Button-hole stay ..	364,812	June 14	879	231	39	1259
Frost, John M., <i>et al.</i> (See Bonehill, Robert, assignor.)						
Frost, Joseph W., Rochester, N. Y. Electric test system	367,205	July 26	1985	{ 536 537 }	{ 40 40 }	{ 400 400 }
Frost, L. Wesley, <i>et al.</i> (See O'Connor, James L., assignor.)						
Frost, Lewis D., Minneapolis, Minn. Machine for turning insulator-pins	362,268	May 3	278	78	39	527
Frost, Newland E., Geneva, N. Y. Package-holder	360,769	Apr. 5	528	137	39	99

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Frost, Richard L., Battle Creek, Mich. Rotary pump	363,739	May 24	2373	{ 616 617 }	{ 39 }	945
Frost Veneer Seating Company. (See Frost, George E., assignor.)						
Frost, William. (See Heath and Frost.)						
Frothingham, Edwin, Boston, Mass. Door-check	356,115	Jan. 18	1186	314	38	243
Frow, James P. (See Hartman and Frow.)						
Fry, Benjamin, Erie, Pa. Combination-lock	365,177	June 21	1417	373	39	1368
Fry, Frederick D. (See Howe and Fry.)						
Fry, Frederick D., and H. W. Benedict, Danbury, Conn. Overshoe	364,006	May 31	2761	716	39	1024
Fry, Frederick D., and H. W. Benedict, assignors of one-third to T. H. Benedict, Danbury, Conn. Overshoe	368,663	Aug. 23	1907	507	40	840
Fry, Frederick D., and H. W. Benedict, assignors of one-third to T. H. Benedict, Danbury, Conn. Last for overshoes	368,664	Aug. 23	1908	507	40	840
Fry, George W., Beaver, assignor to Rochester Tumbler Company, Pittsburg, Pa. Cover for jelly-tumblers	358,114	Feb. 22	1992	525	38	814
Fry, John M., Rothsville, Pa. Cigar-bundling machine	370,252	Sept. 20	1351	361	40	1304
Fry, John O., et al. (See Merrill, John T., assignor.)						
Fry, William W., assignor of one-half to J. P. Rickards, Philadelphia, Pa. Tag for carpets	373,822	Nov. 29	2331	624	41	942
Frye, Frederick S., and E. Wade, Lawrence, Mass. Apparatus for balling warps	373,180	Nov. 15	1364	{ 361 362 }	{ 41 }	739
Fryer, Robert M., Brooklyn, N. Y. Construction of vessels for marine purposes	355,868	Jan. 11	806	{ 211 212 287 288 }	{ 38 }	164
Fryer, Robert M., Brooklyn, N. Y. Construction of ships	356,065	Jan. 11	1093	{ 289 290 291 }	{ 38 }	220
Fryxell, John, Moline, Ill. Ratchet screw-driver or drill	370,734	Sept. 27	2082	552	40	1447
Fuchs, John, Beardstown, Ill. Electric cut-out	356,632	Jan. 25	1918	503	38	389
Fuchs, Julius, Vienna, Austria-Hungary. Corset	367,140	July 26	1903	514	40	383
Fuchs, Mary, Camden, N. J. Trimming for hats	361,756	Apr. 26	1956	510	39	388
Fuchs, Oscar J. (See Dufen and Fuchs.)						
Fuechsel, Albert E. (See Stewart, George W., assignor.)						
Fuel Gas and Electric Engineering Company. (See Wellman and Goetz, assignors.)						
Fuhlrott, Otto, et al. (See Beck, Traugott, assignor.)						
Fullam, Frank. (See Raymond, Freeborn B., assignor.)						
Fuller, Abbott F., et al. (See Shinn and Fagley, assignors.)						
Fuller, Andrew. (See Reichert and Fuller.)						
Fuller, Arthur, trustee. (See Gordon, William, assignor.)						
Fuller, Francis E. (See Chace, Lincoln E., assignor.)						
Fuller, George R., Rochester, N. Y. Tendon for artificial limbs	361,405	Apr. 19	1455	375	39	286
Fuller, George R., Rochester, N. Y. Joint for artificial limbs	370,774	Oct. 4	34	8	41	9
Fuller, Hiram H., Meadville, Pa. Store-service apparatus	359,207	Mar. 8	1124	293	38	1117
Fuller, Levi K., Brattleborough, Vt. Dust-guard	369,596	Sept. 6	387	107	40	1109
Fuller, Levi K., Brattleborough, Vt. Car-coupling	372,462	Nov. 1	266	73	41	521
Fuller, Levi K., Brattleborough, Vt., assignor to Estey Organ Company. Octave-coupler	367,902	Aug. 9	826	222	40	617
Fuller, Lloyd B., assignor of one-half to W. S. Mitchell, Chicago, Ill. Electric smelling-bottle	367,341	July 26	2200	591	40	439
Fuller, Olney B. (See Owen and Fuller.)						
Fuller, Olney B. (See Smith and Fuller.)						
Fuller, Olney B., and W. M. Wyckoff, Detroit, Mich. Heating-furnace	368,201	Aug. 16	1252	334	40	705
Fuller, Oscar B., assignor to himself and J. A. Ellsworth, Burlington, Kans. Pendulum-level	370,013	Sept. 13	1011	267	40	1232
Fuller, Willard H., Passaic, N. J., assignor to Scovill Manufacturing Company, New York, N. Y. Finder for photographic cameras	369,515	Sept. 6	274	76	40	1086
Fuller, Willard H., Passaic, N. J., assignor to Scovill Manufacturing Company, New York, N. Y. Plate-holder for photographers	373,231	Nov. 15	1451	382	41	755
Fuller, Willard M., assignor to American Pulverizer Company, New York, N. Y. Pulverizing-machine	365,510	June 28	1915	{ 498 499 }	{ 39 }	1475
Fullerton, George A., Boston, Mass. Voltaic inner sole	371,189	Oct. 11	649	166	41	136
Fullerton, George A., Boston, Mass., assignor of two-thirds to W. F. Duncan, New York, N. Y., and G. H. P. Flagg, Boston, Mass. Bottle-stopper	373,973	Nov. 29	2542	683	41	983
Fullerton, George A., Boston, Mass., assignor of two-thirds to W. F. Duncan, New York, N. Y., and G. H. P. Flagg, Boston, Mass. Combined bottle and stopper	375,347	Dec. 27	1690	444	41	1399
Fullwiler, Adam, Tule River, Cal. Insecticide	373,396	Nov. 15	1690	.....	41	800
Fulton, Andrew C. (See Lecrone, Emanuel K., assignor.)						
Fulton, Elisha M., New York, N. Y. Cordage-spinning machine	361,057	Apr. 12	953	241	39	181
Fulton, Harmon H., Indianapolis, Ind. Cultivator attachment	359,780	Mar. 22	2016	510	38	1304
Fulton, Harry C., and M. L. Eldridge, Davenport, Iowa. Permutation-lock	365,468	June 28	1847	480	39	1461
Fulton, Samuel M., Galt, Cal. Windmill	355,869	Jan. 11	807	212	38	164
Funderburgh, David L., Salem, Nebr. End-gate	369,283	Aug. 30	2768	739	40	1016
Funderburk, James S., et al. (See Helms, Jacob H., assignor.)						
Funk, John W., Heyworth, Ill. Belt-tightener	375,673	Dec. 27	2144	557	41	1484
Furbish, Clinton, Brooklyn, assignor to Tubal Cain Tap, Die, and Bolt Company, New York, N. Y. Manufacture of screw-bolts	357,768	Feb. 15	1519	395	38	721
Furbish, Zachary T., Augusta, assignor to W. H. Stevens, Portland, Me. Knob-lock	355,311	Jan. 4	25	7	38	7
Furbush & Son Machine Company, M. A. (See Meyer, Benjamin F., assignor.)						
Furman, John A., Newark, N. J., assignor of one-half to Celluloid Novelty Company, New York, N. Y. Die for molding mouth-pieces for whistles, &c., of celluloid	365,768	June 28	2301	598	39	1548
Furman, John A., Newark, N. J., assignor of one-half to Celluloid Novelty Company, New York, N. Y. Die for molding hollow articles of celluloid or analogous material	369,784	Sept. 13	642	{ 173 174 }	{ 40 }	1165
Furnas, John D., Waynesville, Ohio. Vehicle-spring	359,719	Mar. 22	1911	484	38	1286
Furr, Andrew J., et al. (See Knaus, Joseph H., assignor.)						
Furrell, Edward W., assignor of one-half to P. Bakewell, St. Louis, Mo. Combined box or chute and means for intermittently discharging coins therefrom	362,886	May 10	1163	311	39	696
Furse, John P., Maywood, Ill. Child's folding carriage	360,873	Apr. 12	682	178	39	133
Furth, Ignatz. (See Herquet, Joseph W., assignor.)						
Fust, Charles. (See Smith, John T., assignor.)						
Fyfe, Alexander, assignor of two-thirds to N. Barnert and T. Bromley, Paterson, N. J. Fountain-pen	367,752	Aug. 2	603	163	40	564
Fyfe, Robert, New York, N. Y. Station-indicator	375,348	Dec. 27	1691	{ 444 445 }	{ 41 }	1399
Fyler, Silas B., East Syracuse, N. Y. Car-coupling	359,253	Mar. 15	1193	311	38	1138

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Fyrberg, Andrew. (See Johnson and Fyrberg.)						
Ga Nun, Stephen M., and G. F. Parsons, New York, assignors to H. E. Kirstein, Rochester, N. Y. Eyeglasses	364,340	June 7	178	50	39	1122
Gabel, Henry, <i>et al.</i> (See Gabel, Lucian, assignor.)						
Gabel, James, <i>et al.</i> (See Gabel, Lucian, assignor.)						
Gabel, Lucian, Kansas City, Mo., assignor to J. and H. Gabel, Minneapolis, Kans. Machine for making fences	357,916	Feb. 15	1703	444	38	756
Gabelman, Charles, Burlington, Iowa. Meat-cutting machine	359,069	Mar. 8	946	{ 241 242 }	{ 38 38 }	1084
Gable, James C., Lancaster, Pa. Inkstand	362,154	May 3	142	41	39	501
Gaboury, Joseph A., Montgomery, Ala. Cotton-compressor	373,357	Nov. 15	1640	{ 434 435 }	{ 41 41 }	790
Gadberry, Harvey O. (See Kennedy and Gadberry.)						
Gadsden, Henry A. (See Herrick and Topham, assignors.)						
Gadsden, Henry A. (See Radcliffe, Francis, assignor.)						
Gaede, William H. (See Packer and Gaede.)						
Gaertner, August H., St. Louis, Mo. Box-fastener	362,831	May 10	1083	293	39	682
Gage, James P., Fairfield, Iowa. Folding chair	369,931	Sept. 13	879	233	40	1209
Gage, John P., Vineland, N. J. Blotter	366,949	July 19	1640	440	40	327
Gage, William F., Johnstown, N. Y. Folding bracket	372,215	Oct. 25	2146	550	41	442
Gaghan, Thomas E. (See Hart and Gaghan.)						
Gagnaux, Louis, Ste. Croix, Switzerland, assignor to M. J. Paillard & Co., New York, N. Y. Automatic check for music-boxes	359,146	Mar. 8	1043	271	38	1103
Gail, Carl, Chicago, Ill. Adjustable guide for band-saws	356,462	Jan. 25	1668	437	38	341
Gail, Harry S., Highland Park, assignor to F. C. Austin, Chicago, Ill. Hoisting and dropping apparatus	367,903	Aug. 9	827	222	40	617
Gaillac, Eugene G., assignor of one-half to P. B. Kiernan, Chelsea, Mass. Napkin-holder	357,313	Feb. 8	830	216	38	584
Gaillard, Ella N., assignor to E. Marx, New York, N. Y. Combined needle and cord and mode of uniting the same	362,374	May 3	424	118	39	557
Gaillet, Paul, Lillie Nord, France. Decantation apparatus for effecting the automatic separation of solid matters held in suspension in liquids	372,216	Oct. 25	2146	551	41	443
Gaines, Hiram F., Rouse's Point, N. Y. Nut-lock	360,676	Apr. 5	398	101	39	75
Gaines, Hiram F., Rouse's Point, N. Y. Mail-bag	374,790	Dec. 13	887	232	41	1229
Gaines, Robert E., Frankfort, Ky. Steam-pressure regulator	367,385	Aug. 2	38	11	40	458
Gair, Robert. (See Liddell, William, assignor.)						
Gaiser, Charles A., Edwardsville, Ill. Armature for electro-magnets	358,343	Feb. 22	2307	610	38	875
Gaither, Charles P., executor. (See Moore, Lee E.)						
Gaitley, John E., Troy, N. Y. Handle	373,181	Nov. 15	1365	362	41	740
Galbraith, Andrew, Philadelphia, Pa. Doubling-machine	374,055	Nov. 29	2657	714	41	1006
Galbraith, Edward A., assignor of one-half to H. W. Bragg, Boston, Mass. Bottle-case	362,375	May 3	425	118	39	557
Galbreth, Brenton K., Salem, Ohio. Dinner-bucket	362,948	May 17	1254	332	39	720
Gale, Charles C., Glenville, assignor of one-third to R. Cowles, Cleveland, Ohio. Device for darning stockings, &c.	370,775	Oct. 4	34	8	41	9
Gale, Horatio, Albion, Mich. Sulky-plov	360,217	Mar. 29	2722	688	38	1440
Gall, John S., assignor to Steam Gauge and Lantern Company, Rochester, N. Y. Tubular lantern	363,515	May 24	2048	532	39	883
Gallager, Henry, Savannah, Ga. Car-coupling	364,007	May 31	2761	716	39	1024
Gallagher, John P. (See Dumbuck, Gustav A., assignor.)						
Gallas, Peter, Lancaster, Pa. Sand-molding machine	356,872	Feb. 1	184	49, 50	38	456
Galligan, John, <i>et al.</i> (See Healy, Byron J., assignor.)						
Galligan, Michael J., Cedar Rapids, Iowa. Boiler	359,672	Mar. 22	1837	{ 466 467 }	{ 38 38 }	1272
Galligher, Thomas B., <i>et al.</i> (See Mitchell, Oliver F., assignor.)						
Gallon, William. (See Ferris and Gallon.)						
Galloway, Henry E., Chicago, Ill. Die-stock	372,664	Nov. 8	563	154	41	586
Gallup Novelty Works. (See Gallup, William H., assignor.)						
Gallup, William H., assignor to Gallup Novelty Works, Troy, N. Y. Show-stand for collars and cuffs	373,823	Nov. 29	2332	625	41	943
Gally, Merritt, New York, N. Y. Ink-distributing apparatus for printing-presses	356,828	Feb. 1	114	32	38	444
Gally, Merritt, New York, N. Y. Musical instrument	364,813	June 14	879	{ 231 232 }	{ 39 39 }	1259
Gally, Merritt, New York, N. Y. Mechanical musical instrument	370,466	Sept. 27	1674	446	40	1373
Galpin, Lewis A., <i>et al.</i> (See Bowers, La Mont M., assignor.)						
Galvin, James A., Steelton, Pa. Electrical alarm	366,212	July 12	633	172	40	128
Gambell, Walter J. (See Battcher, John H., assignor.)						
Gamewell Fire Alarm Telegraph Company. (See Cole, Frederick W., assignor.)						
Gamgee, John, London, county of Middlesex, England. Steam-boiler	369,402	Sept. 6	130	38	40	1057
Gandy Belt Manufacturing Company. (See Gandy, Maurice, assignor.)						
Gandy, Maurice, New Brighton, county of Chester, England. Apparatus for making laminated belts	358,808	Mar. 1	563	{ 140 141 }	{ 38 38 }	1009
Gandy, Maurice, New Brighton, county of Chester, England. Forming endless laminated belts	358,809	Mar. 1	564	141	38	1009
Gandy, Maurice, New Brighton, county of Chester, assignor to Gandy Belt Manufacturing Company, (limited,) Liverpool, England. Belt for driving machinery	356,933	Feb. 1	262	.....	38	469
Gandy, Maurice, New Brighton, county of Chester, assignor to Gandy Belt Manufacturing Company, (limited,) Liverpool, England. Belt or band for driving machinery	357,077	Feb. 1	471	126	38	509
Gangwer, Edward and H., Weatherly, Pa. Towel-rack	364,814	June 14	882	232	39	1260
Gangwer, Herbert. (See Gangwer, Edward and H.)						
Gannon, Edward J. (See Adair, Irvine J., assignor.)						
Gannon, William J., Fort Dodge, assignor of three-fourths to W. L. Orrick and M. J. Mulgrew, Dubuque, Iowa. Show-case	358,391	Feb. 22	2373	631	38	887
Gano, Joseph. (See Cochard and Gano.)						
Ganster, George P., Reading, Pa. Lamp	366,213	July 12	635	173	40	128
Gantenberg, Bernhard, Covington, Ky. Sash-fastener	365,679	June 28	2166	565	39	1522
Ganter, Francis X. (See Crownfield, Herman F. D., assignor.)						
Ganter, Francis X., and T. L. Borst, Baltimore, Md., said Borst assignor to said Ganter. Game-table	364,999	June 14	1149	301	39	1309
Garben, Adolph F. C., assignor to R. B. Langdon, Minneapolis, Minn. Hub-attaching device	367,511	Aug. 2	232	67	40	496
Garben, Adolph F. C., assignor to R. B. Langdon, Minneapolis, Minn. Hub-attaching device. (Reissue)	10,874	Oct. 18	1683	435	41	348
Garber, Michael B., Springfield, and J. W. McElvain, Auburn, Ill. School-desk	367,512	Aug. 2	234	67	40	496
Garbett, Joseph. (See Record, James L., assignor.)						
Garcia, Francisco, New York, N. Y. Trunk-corner	373,232	Nov. 15	1453	382	41	755

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Gardner, George W., New York, N. Y., assignor to Baltimore and Ohio Telegraph Company, Baltimore, Md. Duplex telegraphy.....	361,356	Apr. 19	1395	359	39	275
Gardner, Edward A., Whiglane, N. J. Vehicle-gear.....	375,148	Dec. 20	1428	373	41	1338
Gardner, William J., Toronto, Ontario, Canada. Combined tobacco-box, match-box, and cigarette-former.....	367,036	July 26	1749	472	40	355
Gardner & Co., F. A. (See Gardner, Frederick A., assignor.)						
Gardner, Charles B., Allston, (Boston,) Mass. Pulp-machine.....	374,182	Dec. 6	28	7	41	1052
Gardner, Charles B., Allston, (Boston,) Mass. Wood pulp for the manufacture of refrigerators and making the same.....	374,183	Dec. 6	29	7	41	1052
Gardner, Charles B., Allston, (Boston,) Mass. Refrigerator.....	374,184	Dec. 6	30	7, 8	41	1052
Gardner, Edward V., London, county of Middlesex, England. Manufacture of white lead.....	359,352	Mar. 15	1327	344	38	1162
Gardner, Emmitt V. R., West Town, N. Y. Hay-fork.....	358,738	Mar. 1	466	114	38	990
Gardner, Frederick A., assignor to F. A. Gardner & Co., Catskill, N. Y. Steam-engine.....	368,762	Aug. 23	2057	545	40	868
Gardner, George E., Xenia, Ohio. Uniting a combined re-enforce and overlap pieces to shirt-bodies.....	371,677	Oct. 18	1330	344	41	278
Gardner, Henry R., Boston, Mass. Electric boot-blackening apparatus.....	366,660	July 19	1253	335	40	254
Gardner, James B., Boston, Mass., assignor to National Heeling Machine Company, Portland, Me. Attaching heels.....	360,580	Apr. 5	273	67	39	53
Gardner, James H., Elkhart, Ind. Violin tuning-peg.....	361,500	Apr. 19	1578	409	39	310
Gardner, Llewellyn H., Detroit, Mich. Fly-paper.....	360,957	Apr. 12	807	207	39	155
Gardner, Louis F., Washington, D. C. Hat-fastener.....	360,770	Apr. 5	529	137	39	99
Gardner, M. Morris, Providence, R. I. Cigar-bunching machine.....	364,815	June 14	883	{ 232 } { 233 }	{ 39 }	1260
Gardner, Marshall, and A. Lovedahl, assignors to J. Stone, Aurora, Ill. Machine for forming and attaching clasps to strips.....	365,251	June 21	1526	398	39	1388
Gardner, Oliver L., assignor of one-half to A. Van Derwerken, Brooklyn, N. Y. Interior wall finish.....	361,686	Apr. 26	1861	483	39	372
Gardner, Oliver L., assignor of one-half to A. Van Derwerken, Brooklyn, N. Y. Interior wall finish.....	361,687	Apr. 26	1862	483	39	372
Gardner, Perry G., assignor of one-half to F. D. Halstead, North Adams, Mass. Clutch.....	361,156	Apr. 12	1111	281	39	211
Gardner, William, Curtain Road, county of Middlesex, assignor to R. C. Christie, Glenwood, England. Breech-loading gun.....	371,836	Oct. 18	1569	{ 405 } { 406 }	{ 41 }	327
Garey, Caleb E., New York, N. Y. Car-spring.....	364,008	May 31	2763	{ 716 } { 717 }	{ 39 }	1024
Garey, Caleb E., New York, N. Y. Car-brake.....	367,805	Aug. 9	690	{ 186 } { 187 }	{ 40 }	589
Garey, Caleb E., New York, N. Y., assignor to Dry Dock, East Broadway and Battery Railway Company, of New York. Street-car lamp.....	365,062	June 21	1254	330	39	1338
Garfield, Albert G., Chicago, Ill. Rope-splice.....	356,116	Jan. 18	1187	314	38	243
Garfield Injector Company. (See Kremer, Franklin W., assignor.)						
Garl, Manious, Akron, Ohio. Mechanical telephone.....	361,499	Apr. 19	1577	409	39	310
Garland, Amasa S., et al. (See Cushman, Adoniram J., assignor.)						
Garland, Howard P., San Quentin, Cal. Wheel or roller for slivering jute.....	356,312	Jan. 18	1453	381	38	293
Garland, Michael. (See Patullo, George H., assignor.)						
Garland, Michael, Bay City, Mich. Drive-chain.....	365,123	June 21	1345	356	39	1354
Garland, Michael, Bay City, Mich. Sprocket wheel and cable.....	366,472	July 12	965	263	40	192
Garland, Michael, Bay City, Mich. Rope or cable coupling.....	366,473	July 12	968	263	40	192
Garland, Michael, Bay City, Mich. Self-oiling journal-box.....	373,283	Nov. 15	1516	401	41	768
Garland, Michael, Bay City, Mich., assignor to J. E. Emerson, Beaver Falls, Pa. Band-saw mill.....	356,035	Jan. 11	1053	277	38	213
Garlington, Thomas C., Lafayette, Ala. Cotton-planter.....	372,665	Nov. 8	564	154	41	586
Garner, George L., Kansas City, Mo. Automatic railway-switch.....	371,190	Oct. 11	649	166	41	136
Garner, William A., Fresno, Cal. Insecticide.....	373,928	Nov. 29	2474	.....	41	970
Garner, William O., Oberlin, and C. F. Laganke, Cleveland; said Laganke assignor to Z. M. Garner, Oberlin, Ohio. Type-writing machine.....	375,062	Dec. 20	1298	339	41	1314
Garner, Zelota M. (See Garner and Laganke, assignors.)						
Garratt, Herbert W., Lower Clapton, county of Middlesex, England. Valve-gear.....	359,147	Mar. 8	1044	{ 271 } { 272 }	{ 38 }	1103
Garrett, Albert F. M., and A. J. Sanford, Dadeville, Ala. Back-band buckle.....	359,254	Mar. 15	1194	311	38	1138
Garrett, Edwin S., et al. (See Yeiser, Edmund, assignor.)						
Garrett, Henry H., Pittsburg, Pa. Guide-pin for molders' flasks.....	371,837	Oct. 18	1572	406	41	328
Garrett, John S., et al. (See Yeiser, Edmund, assignor.)						
Garrigues, Lewis, Waterville, Conn. Feed-roll.....	360,677	Apr. 5	400	101	39	75
Garrison, Samuel R., assignor of one-half to A. E. Holmes, Dennisville, N. J. Shoe last and standard.....	373,974	Nov. 29	2543	683	41	983
Garrood, Arthur F., Rutland Road, South Hackney, county of Middlesex, England. Sash-fastener.....	362,209	May 3	208	62	39	513
Garside, John E., Peoria, Ill. Scoop-board for wagons.....	367,615	Aug. 2	374	105	40	523
Garth & Co. (See Smith, John G., assignor.)						
Gärtner, Carl. (See Jensen, Carl J. B., assignor.)						
Garver, David A. (See Straight and Jameson, assignors.)						
Garvey, Henry A., Scranton, Pa. Making foundry-patterns.....	372,793	Nov. 8	764	206	41	622
Garvey, John W. (See Bradshaw, Silas S., assignor.)						
Garvie, George D. (See Tripp, James, assignor.)						
Garvie, George D. (See Tripp and Garvie.)						
Garvin, Samuel, Prairie Creek, assignor of one-half to W. R. Mercer, Terre Haute, Ind. Mowing-machine.....	357,590	Feb. 15	1239	326	38	671
Gary, Hiram, Croton, N. J. Basket-cover.....	355,925	Jan. 11	893	234	38	182
Gas Consumers Benefit Company of the United States. (See Jackson, Walter M., assignor.)						
Gas Engine and Power Company. (See Ofeldt, Frank W., assignor.)						
Gas Motoren Fabrik Deutz. (See Otto, Nicolaus A., assignor.)						
Gaskill, Daniel W., Little Rock, Ark. Cotton-gin.....	356,463	Jan. 25	1669	437	38	341
Gaskill, Harvey F., Lockport, N. Y. Duplex engine.....	364,640	June 14	610	{ 163 } { 164 }	{ 39 }	1210
Gaskill, Harvey F., Lockport, N. Y. Compound engine.....	366,392	July 12	875	235	40	173
Gaskill, Harvey F., Lockport, N. Y. Packing device for piston-rods.....	367,806	Aug. 9	692	187	40	590
Gaskill, Harvey F., Lockport, N. Y. Duplex engine.....	370,776	Oct. 4	35	9	41	9
Gaskill, Harvey F., Lockport, N. Y. Pumping-engine.....	372,794	Nov. 8	765	{ 206 } { 207 }	{ 41 }	622
Gaskill, Harvey F., Lockport, N. Y. Valve-gear.....	374,298	Dec. 6	182	48	41	1081
Gaskin, Robert, Sr., Portland, New Brunswick, Canada. Sight for fire-arms.....	360,678	Apr. 5	401	102	39	75
Gaskin, Robert, Fairville, assignor to himself and G. Mealey, Portland, New Brunswick, Canada. Rotary saw-sharpener.....	360,679	Apr. 5	402	{ 102 } { 103 }	{ 39 }	75

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Gasking, Alfred J., Enfield, county of Middlesex, assignor to Gasking Patent Driving Belt and Leather Company, (limited,) London, England. Machine-belt.....	362,269	May 3	279	78	39	527
Gasking, George H., Somerset Centre, Mich. Whip-socket and rein-holder.....	355,312	Jan. 4	27	8	38	7
Gasking Patent Driving Belt and Leather Company. (See Gasking, Alfred J., assignor.)						
Gaskins, John L., Starke, Fla. Lumber-drier.....	360,958	Apr. 12	808	207	39	155
Gasser, Michael. (See Rast, Gasser, and Zwanziger.)						
Gassner, Carl, Jr., Mentz, Germany. Galvanic battery.....	373,064	Nov. 15	1185	.....	41	707
Gaston, James E. (See McDill and Gaston.)						
Gates, Alfonso D., assignor of one-half to A. S. Deutsch, Cleveland, Ohio. Wrench.....	357,986	Feb. 15	1804	473	38	775
Gates, Curtis, Lyndon, Vt. Hay-tedder.....	368,390	Aug. 16	1515	404	40	757
Gates, Eugene N., Holyoke, assignor to H. F. Coggeshall, Fitchburg, Mass. Heating apparatus for buildings.....	359,561	Mar. 15	1661	{ 423 424 }	{ 38 }	1224
Gates, Henry H., Eaton Rapids, Mich. Upholstered furniture.....	366,474	July 12	969	263	40	192
Gates, James W. (See Donoho and Gates.)						
Gates, Louis W. (See Gates, William and L. W.)						
Gates, Roswell W. (See Howard, Everett R., assignor.)						
Gates, Roswell W., assignor to E. R. Howard, Aurora, Ill. Nut-lock.....	355,646	Jan. 4	477	127	38	94
Gates, William and L. W., assignors to C. Cowles & Company, New Haven, Conn. Machine for capping tacks.....	373,284	Nov. 15	1517	{ 401 402 }	{ 41 }	768
Gates, William H., Philadelphia, Pa. Artificial tooth-crown.....	371,053	Oct. 4	463	116	41	91
Gatewood, Wesley E., Stockport, Ohio. Metallic wheel.....	372,370	Nov. 1	129	39	41	495
Gatewood, William F., assignor of one-half to C. Rockhill, Harvard, Nebr. Adding-machine.....	370,777	Oct. 4	37	10	41	10
Gathmann, Louis, Chicago, Ill. Bread and vegetable slicer.....	364,641	June 14	612	164	39	1211
Gathright, Josiah B., Louisville, Ky. Device for attaching straps.....	366,214	July 12	637	173	40	128
Gaudin, Félix, Donaldsonville, La. Dental cabinet for laboratories.....	370,467	Sept. 27	1675	446	40	1373
Gaughen, Peter F., Boston, Mass. Sail-boat.....	369,175	Aug. 30	2633	698	40	990
Gaukroger, Albert, San Francisco, Cal. Screen-bottom for charcoal washing and filtering tanks.....	360,581	Apr. 5	274	67	39	53
Gault, Nathaniel C., et al. (See Schoonmaker, James H., assignor.)						
Gaume, Charles J. B., Brooklyn, assignor to Continental Gas Engine Company, New York, N. Y. Gas-engine.....	374,056	Nov. 29	2658	{ 714 715 }	{ 41 }	1006
Gause, James E., Brownsville, Tenn. Watch-rack.....	358,193	Feb. 22	2113	558	38	837
Gautier, Alexandre, Paris, France, assignor to Société Gautier, Pozzy & Cie. Expansible pin-connection.....	364,584	June 7	536	144	39	1189
Gaver, Samuel P., assignor of one-half to R. Connor, Ewing, Nebr. Car-coupling.....	372,371	Nov. 1	130	39	41	495
Gavillet, William, and L. Martaresche, Paris, France. Gas-motor.....	357,193	Feb. 8	671	174	38	554
Gavin, George, and L. W. Cromer, Eureka, Nev. Bit-brace.....	366,826	July 19	1481	395	40	295
Gavit, Clark R., assignor to himself and J. J. Walton, New York, N. Y. Automatic railway-gate.....	363,133	May 17	1512	401	39	770
Gavitt, George F., assignor to C. R. Taylor and J. T. Whitcomb, Berlin, Wis. Protecting roofs of buildings.....	359,318	Mar. 15	1279	331	38	1154
Gaw, William H., et al. (See Frishmuth, William, assignor.)						
Gawn, James D., North Amherst, Ohio. Coupling-hook.....	367,969	Aug. 9	928	251	40	636
Gay, Alexander, Providence, R. I. Punching-machine.....	369,597	Sept. 6	388	108	40	1109
Gay, Charles P., Providence, R. I. Sash-holder.....	373,824	Nov. 29	2334	626	41	943
Gay, Edgar A., Minneapolis, Minn. Pencil-sharpener.....	370,940	Oct. 4	301	73	41	60
Gay, Harry S., Lykens, Pa. Combined parallel-ruler and protractor.....	374,955	Dec. 20	1153	302	41	1288
Gay, Ware B., et al. (See Wheeler, Elbridge, assignor.)						
Gay, Ware B., et al., trustees. (See Wheeler, Elbridge, assignor.)						
Gay, William A., Newark, N. J. Door-knob.....	366,950	July 19	1642	440	40	327
Gaylor, Leonard B., Stamford, Conn. Bicycle.....	361,280	Apr. 19	1284	{ 329 330 }	{ 39 }	256
Gaylord, Charles D. (See Barber, Arthur J., assignor.)						
Gaylord, Edward L., Bridgeport, Conn. Folding chair.....	357,591	Feb. 15	1240	326	38	671
Gaylord, Edward L., Bridgeport, Conn. Miter-box.....	374,868	Dec. 13	998	261	41	1250
Gaylord, Elbert W., Cleveland, Ohio. Metal seal.....	371,884	Oct. 18	1648	425	41	342
Gaynor, Thomas F., New York, N. Y. Jar-fastener.....	365,592	June 28	2046	534	39	1501
Gearing, Charles M., Pittsburg, Pa. Liquid-fuel furnace.....	374,057	Nov. 29	2661	715	41	1006
Geary, George, Johnstown, N. Y. Glove-fastener.....	369,848	Sept. 13	742	198	40	1184
Geary, Michael, Oil City, Pa. Universal drilling and tapping machine.....	365,983	July 5	322	85	40	62
Gebhard, Lorenzo. (See Batt, John B., assignor.)						
Gebhardt, Charles, Cabery, Ill. Extension-table.....	361,688	Apr. 26	1864	484	39	373
Gebhart, J. F. (See Smith, James, assignor.)						
Gedge, Burton H., Covington, Ky. Railway-signal.....	364,009	May 31	2765	717	39	1025
Gee, William, New York, N. Y. Automatic heat-indicator and distant alarm.....	356,360	Jan. 18	1525	401	38	307
Gee, William V., Philadelphia, Pa. Machine for stitching together Jacquard cards.....	361,406	Apr. 19	1456	{ 376 377 }	{ 39 }	286
Geer, Adelbert L., Plymouth, Mich. Twine-binder.....	368,665	Aug. 23	1909	{ 508 509 }	{ 40 }	840
Geer, Alexander W., New York, N. Y. Fire-alarm.....	362,949	May 17	1255	333	39	720
Geer, George, Peterborough, N. H., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Pneumatic door-check.....	371,259	Oct. 11	746	191	41	154
Geer, George, Peterborough, N. H., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-check.....	374,245	Dec. 6	107	27	41	1067
Geer, Henry, Vale's Mills, Ohio. Water-motor.....	356,873	Feb. 1	186	51	38	456
Geering, E. Fred., Detroit, Mich., assignor, by mesne assignments, to Lamson Store Service Company, Boston, Mass. Store-service apparatus.....	370,778	Oct. 4	41	10	41	10
Gehr, S. Whipple, et al. (See Holman, Strange A., assignor.)						
Geib, Bernhard D., Cleveland, Ohio. Snap-hook.....	369,516	Sept. 6	275	76	40	1086
Geier, John L., Chicago, Ill. Measuring oil-tank.....	360,289	Mar. 29	2837	721	38	1462
Geiger, Carl, Karlsruhe, Baden, Germany. Sewer-gate.....	356,758	Feb. 1	24	8	38	428
Geiger, Francis C., Wood County, W. Va. Double-shovel plow.....	365,252	June 21	1530	398	39	1388
Geiger, Francis C., Rockport, W. Va. Cultivator.....	374,469	Dec. 6	428	112	41	1128
Geiger, G. H. (See Keinardt, John A., assignor.)						
Geiger, Henry O., Tacoma, Wash. Ter. Dredge.....	368,884	Aug. 23	2222	591	40	901
Geiger, Jacob, Stuttgart, Württemberg, Germany. Card-board-box fastening.....	367,970	Aug. 9	929	251	40	636
Geiger, John J., and I. T. Wood, Clyde, Ohio. Reel for holding wire-netting.....	374,357	Dec. 6	273	73	41	1098
Geiger, Wilhelm. (See Keck and Geiger.)						
Geiger, Wilhelm, Cincinnati, Ohio. Cloth-sponging machine.....	371,191	Oct. 11	651	167	41	136
Geigy, Jean R. (See Greppin, Edward, assignor.)						
Geils, August, New York, N. Y. Fishing-reel.....	374,737	Dec. 13	810	213	41	1214
Gélineau, Vital, Lowell, Mass. Elevator.....	373,285	Nov. 15	1521	402	41	768

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Gemmell, Robert, Columbus, Ontario, Canada. Spindle-banding and band-tightener for spinning-machines	356,117	Jan. 18	1188	314	38	243
Gemmell, John B., Red Bluff, Cal. Reel-supporting arm	356,829	Feb. 1	116	32	38	444
Gendron, Patrick H., Concord, N. H. Saw-filing machine	361,757	Apr. 26	1957	510	39	388
Gendron, Peter, Toledo, Ohio. Tricycle	365,377	June 28	1722	445	39	1437
Genese, David, Baltimore, Md. Combined dental speculum, reflector, and cheek-compressor	364,505	June 7	421	114	39	1168
Genese, David, Baltimore, Md. Artificial tooth	371,054	Oct. 4	464	116	41	91
Genese, David, Baltimore, Md. Tongue-holder for mouth and throat operations	374,122	Nov. 29	2753	740	41	1024
Gennert, Emil F., Brooklyn, N. Y. Argand gas-burner	358,344	Feb. 22	2308	610	38	875
Gennert, Emil F., Brooklyn, N. Y. Atmospheric burner	358,345	Feb. 22	2309	611	38	875
Gennert, Emil F., Brooklyn, N. Y. Insulating joint or pipe-coupling	373,452	Nov. 22	1773	470	41	828
Gent, Joseph F., Columbus, Ind. Preparing cereals	372,065	Oct. 25	1915	-----	41	400
Gent, William, Rockford, Ill. Carriage-wrench	360,874	Apr. 12	683	178	39	134
Genter, John. (See Kaufhold and Genter.)						
Gentry, Oliver H., assignor of one-half to J. Block, Opelousas, La. Steam-boiler	375,282	Dec. 20	1597	419	41	1373
Gentry, Thomas W., and G. W. O'Brien, Atlanta, Ga. Heating, setting, and removing tires.	357,194	Feb. 8	674	174	38	555
Gentzsch, Theodore, assignor to himself and G. A. Witte, Jr., Brooklyn, N. Y. Holder for collars or cuffs	361,058	Apr. 12	956	242	39	182
Gentzsch, Theodore, and G. A. Witte, Jr., Brooklyn, N. Y. Garment-supporter	366,827	July 19	1482	395	40	296
George, Albert F., Washburn, Mo. Spring-motor	370,779	Oct. 4	43	11	41	11
George, Josias J., Baltimore, Md. Barrel-truck	372,137	Oct. 25	2035	521	41	420
George, Moses E., Lebanon, N. H. Condensing carding-machine	373,137	Nov. 15	1290	343	41	727
George, William E., assignor of one-half to J. Coenen, Harlan, Iowa. Convertible stock-wagon	374,591	Dec. 13	609	159	41	1173
George, William F., assignor of one-half to C. A. Christian and J. C. Shoup, New York, N. Y. Broom-bridle	372,259	Oct. 25	2211	566	41	455
Georget, François X., St. Louis, Mo. Rolls for rolling railway-ties	364,642	June 14	613	{ 164 165 }	{ 39 39 }	{ 1211 1211 }
Georget, François X., St. Louis, Mo. Railway-bedding	365,511	June 28	1918	499	39	1476
Georget, François X., St. Louis, Mo. Railway-guard rail	369,446	Sept. 6	188	53, 54	40	1068
Georgia, Harrison W., Smethport, Pa. Combined jointer and side-dresser for saws	366,215	July 12	638	173	40	128
Gepford, William, West Salem, Ohio. Fence-post	366,578	July 12	1132	303	40	225
Gerald, Robert F., assignor of two thirds to S. C. Nightingale, Boston, and F. C. Childs, Winchester, Mass. Hose-coupling	371,753	Oct. 18	1445	374	41	302
Gerard, Fardenad, assignor of one-half to N. Palardis and N. Pierre, Minneapolis, Minn. Draw-bridge gate	368,666	Aug. 23	1914	509	40	841
Gérard, John, assignor to Landers, Frary & Clark, New Britain, Conn. Meat-cutter	368,824	Aug. 23	2139	567	40	883
Gerard, John J., Minneapolis, Minn., assignor to F. Schlesinger, Milwaukee, Wis. Dust-collector	364,099	May 31	2885	{ 748 749 }	{ 39 39 }	{ 1048 1048 }
Gerber, Mahlon A., assignor of one-half to R. A. Pott, Lost Creek, Pa. Railway-switch	363,380	May 24	1839	484	39	843
Gerber, Mahlon A., assignor of one-half to R. A. Pott, Lost Creek, Pa. Railway-switch. (Reissue)	10,883	Nov. 22	2306	617	41	932
Gerham, Phillip H. (See Hutchins, Charles N., assignor.)						
Gerhard, Charles, New York, N. Y. Composition for Bengal lights	363,224	May 17	1635	-----	39	795
Gerhard, Charles, Merrill, Wis. Crimper for boot or shoe packs	364,010	May 31	2766	717	39	1025
Geringer, John W. (See Kernodle, James A., assignor.)						
Gerkhardt, William, St. Louis, Mo. Steam-generating furnace	365,253	June 21	1530	399	39	1388
Gerlach, Andrew P., Mendota, Ill. Device for converting motion	355,986	Jan. 11	990	260	38	201
Gerlach, Carl C., assignor to R. P. Gerlach, Cleveland, Ohio. Grease-cup	358,739	Mar. 1	468	114	38	991
Gerlach, Charles F., Milwaukee, Wis. Circular sawing machine	372,904	Nov. 8	937	253	41	650
Gerlach, Rudolph P. (See Gerlach, Carl C., assignor.)						
Germeil-Bonnaud, Jean B., Longton, county of Stafford, England. Producing copies for lithography from photographs	358,774	Mar. 1	515	-----	38	999
Germain, Pierre, Clermont Ferrand, Puy-de-Dôme, France. Electric battery	365,359	June 21	1678	438	39	1418
Germond, Gilbert A., Van Nest, N. Y. Pan-lifter	360,218	Mar. 29	2723	689	38	1440
Geronimi, Giuseppe, and G. Venini, Milan, Italy. Cremation-furnace	361,407	Apr. 19	1459	377	39	287
Gersdorff, Augustus, Washington, D. C. Funnel	357,476	Feb. 8	1054	279	38	627
Gerstein, Dederick, assignor to himself, E. H. Taylor, Vassar, J. G. Trump, H. Luebkert, M. Reichle, and P. Trump, Tuscola County, Mich. Pendulum-power	369,176	Aug. 30	2634	699	40	990
Gesche, Charles V., Bridgeport, Conn. Detachable horseshoe	363,225	May 17	1636	429	39	795
Gessner, Ernst, Aue, Saxony, Germany. Machine for making card-clothing	364,816	June 14	886	233	39	1260
Gessner, Ernst, Aue, Saxony, Germany. Card-clothed roller	364,817	June 14	887	233	39	1260
Gessner, Gustavus A., Fremont, Ohio. Bottle-stopping mechanism	368,711	Aug. 23	1984	527	40	854
Gessner, Gustavus A., Fremont, Ohio. Bottle-stopper	368,712	Aug. 23	1985	527	40	854
Gessner, Gustavus A., Fremont, Ohio. Bottle-stopper	369,332	Sept. 6	30	9	40	1041
Gesswein, Frederick W., Brooklyn, N. Y. Broach	363,059	May 17	1412	373	39	750
Getchell, Augustus W., Cleveland, Ohio. Motor for street-cars	368,825	Aug. 23	2142	567	40	884
Getchell, Frederick. (See Horton, Peter D., assignor.)						
Getchell, Frederick. (See Horton, Peter D. and G., assignors.)						
Getchell, Frederick, et al. (See Peyton, Bernard R., assignor.)						
Getchell, Winfield S., Oakland, Cal. Safety sight-feed reflector	363,060	May 17	1413	374	39	750
Gethmann, J. Louis. (See Gethmann, William and J. L.)						
Gethmann, William and J. L., Gladbrook, Iowa. Halter	371,754	Oct. 18	1446	374	41	303
Getleson, David, San Francisco, Cal. Bottle safe	359,438	Mar. 15	1462	374	38	1187
Geyer, Christoph F., Aurora, Ill. Device for planing curved surfaces	373,586	Nov. 22	1989	528	41	866
Geyer, Hermann R., San Antonio, Tex. Implement for extracting axle-boxes from wheel-hubs	366,163	July 5	558	150	40	105
Ghegan, John J., Newark, N. J. Magnetic water-level indicator	355,815	Jan. 11	727	190	38	150
Ghegan, John J., assignor of one-half to A. Albright, Newark, N. J. Automatic electric danger-alarm	362,739	May 10	953	{ 259 260 }	{ 39 39 }	{ 658 658 }
Gholson, William C., Cincinnati, Ohio. Wire-fence bracket	370,386	Sept. 27	1551	415	40	1350
Gholson, William C., Cincinnati, Ohio. Wire-fence bracket	370,387	Sept. 27	1552	416	40	1350
Ghriskey, Charles M. (See Hollenback, Adam S., assignor.)						
Gibbons, George B. (See Gibbons, James C. and G. B.)						
Gibbons, James C. and G. B., Norristown, Pa. Steam and water boiler	364,100	May 31	2888	749	39	1049
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Car-axle oiler	355,313	Jan. 4	28	8	38	7
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Roller-bearing for shafts and axles. (Reissue)	10,805	Feb. 8	1196	314	38	654
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Oiler for car-axles	365,063	June 21	1255	{ 330 331 }	{ 39 39 }	{ 1338 1338 }
Gibbs, Charles, New York, N. Y. Steam-engine	356,934	Feb. 1	263	72	38	470
Gibbs, Eugene S., Lyons, Iowa. Churn	357,661	Feb. 15	1345	354	38	690
Gibbs, George, Milwaukee, Wis. Pipe-coupling	375,547	Dec. 27	1960	510	41	1451

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Gibbs, Jason, Fremont, Ohio. Cattle-stall	369,333	Sept. 6	31	9	40	1041
Gibbs, Lewis, assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Plow	368,527	Aug. 16	1722	459	40	795
Gibbs, Martin L., Findlay, Ohio. Plow-clevis	362,073	May 3	30	9	39	478
Gibbs, Willard M., <i>et al.</i> (See Farmer, Bovard, and Moon, assignors.)						
Giberson, William. (See Mogridge and Giberson.)						
Gibson, Charles, Mount Vernon, Ind. Fence	362,074	May 3	31	9	39	479
Gibson, Frank T., Bowling Green, Ky. Plow attachment	368,713	Aug. 23	1987	527	40	855
Gibson, George W., <i>et al.</i> (See Hopkins, Edwin F., assignor.)						
Gibson, Henry B., Cincinnati, Ohio. Fishing-reel	371,055	Oct. 4	465	116	41	91
Gibson, J. Harper, New York, assignor to C. E. Hubbell, Syracuse, N. Y. Railway-signal.	375,063	Dec. 20	1300	{ 339 340 }	{ 41 38 }	{ 1314 956 }
Gibson, John H., Canton, Ohio. Safety saddle-stirrup	358,603	Mar. 1	284	67	38	956
Gibson, John W., River Falls, Wis. Device for cleaning chimneys	361,502	Apr. 19	1581	410	39	310
Gibson, William, <i>et al.</i> (See Penman, William, assignor.)						
Gibson, William A., Old Jewry, London, England. Hydraulic elevator	367,098	July 26	1847	499	40	373
Gibson, William S., and L. Stone, Charlestown, N. H. Carriage-jack	362,075	May 3	32	10	39	479
Giddings, Charles M., Massillon, Ohio. Recording-dynamometer	361,689	Apr. 26	1865	484	39	373
Gidley, Samuel H. (See Wilcock, John, assignor.)						
Giebertmann, Rudolph, Chicago, Ill. Separation of glycerine from fats	359,148	Mar. 8	1046	.....	38	1104
Gienty, Daniel P., assignor of one-half to H. W. Hayden, Concord, N. H. Nut-lock	360,091	Mar. 29	2520	641	38	1404
Giesler, Arthur. (See Schaeffer, Jacob, assignor.)						
Gifford, Alenza T. (See French and Gifford.)						
Gifford, Charles. (See Burnham, Arthur M., assignor.)						
Gifford, Clarence B. (See Abell and Gifford.)						
Gifford, John P. S. (See Werner and Gifford.)						
Gifford, Lord B., Toledo, Ohio. Car-mover	373,358	Nov. 15	1643	435	41	791
Gift, Charles W., assignor to L. R. Gift, Fairmount, Ind. Weather-strip	368,917	Aug. 23	2275	605	40	911
Gift, Luther R. (See Gift, Charles W., assignor.)						
Gil, Siméon, Bordeaux, Gironde, assignor to Société Castañon, Menendez & Gil, Paris, France. Pump	356,997	Feb. 1	354	94	38	488
Gilbert, Charles M., Minneapolis, Minn. Grain-scourer	363,381	May 24	1840	{ 484 485 }	{ 39 40 }	{ 843 926 }
Gilbert, Charles M., Minneapolis, Minn. Grain-separator	368,939	Aug. 30	2312	{ 614 615 }	{ 40 40 }	{ 926 927 }
Gilbert, Charles M., Minneapolis, Minn. Counter-balance for grain-separators	368,940	Aug. 30	2314	615	40	927
Gilbert, Charles M., Minneapolis, Minn. Bran-duster	373,453	Nov. 22	1774	{ 470 471 }	{ 41 41 }	{ 828 828 }
Gilbert, David A., Morrisville, Vt. Buckle	374,470	Dec. 6	429	112	41	1128
Gilbert, Edward B., <i>et al.</i> (See Wilson, Francis T., assignor.)						
Gilbert, Edwin, Georgetown, Conn. Device for filling cop-holders with wire	361,501	Apr. 19	1580	410	39	310
Gilbert, Effie A., Chicago, Ill. Bustle	358,115	Feb. 22	1992	525	38	814
Gilbert, Elias, <i>et al.</i> (See Wilson, Francis T., assignor.)						
Gilbert, Frank B., <i>et al.</i> (See Wilson, Francis T., assignor.)						
Gilbert, Frank B., Jefferson, Tex. Bill or paper file	367,971	Aug. 9	930	251	40	637
Gilbert, George A., Milwaukee, Wis., and J. Gordon, Lincoln, Ill. Middlings-purifier	372,308	Nov. 1	33	11	41	478
Gilbert, George A., and W. Richardson, Milwaukee, Wis. Grain cleaning and scouring machine	355,520	Jan. 4	292	78	38	59
Gilbert, George D., Corry, assignor to R. S. Battles, Girard, Pa. Boiler	364,506	June 7	423	114	39	1168
Gilbert, Henry J., Dayton, Ohio. Separable pulley	368,468	Aug. 16	1644	438	40	781
Gilbert, Henry J., Dayton, Ohio. Flour-bolt	371,678	Oct. 18	1331	{ 344 345 }	{ 41 41 }	{ 279 279 }
Gilbert, Henry W., assignor to J. A. House, Bridgeport, Conn. Corset	357,078	Feb. 1	472	126	38	509
Gilbert, James, Liberty, Ohio. Fence	356,830	Feb. 1	117	32	38	445
Gilbert, John T., Bloomington, Ill., assignor, by mesne assignments, to J. T. Hall, St. Louis, Mich. Cattle-guard for railways	373,359	Nov. 15	1644	435	41	791
Gilbert, John W., New York, N. Y. Automatic air-regulator for organs	364,243	June 7	60	18	39	1100
Gilbert, Joseph, Los Angeles, Cal. Adjustment for harvester-reels	357,822	Feb. 15	1585	411	38	734
Gilbert, Thomas S., assignor to Mayer, Strouse & Co., New Haven, Conn. Corset	357,917	Feb. 15	1705	445	38	757
Gilbert, Thomas S., assignor to Mayer, Strouse & Co., New Haven, Conn. Corset	371,444	Oct. 11	1003	261	41	204
Gilbody, Henry. (See Dronsfield and Gilbody.)						
Gilchrest, James, Ravenswood, Ill. Mower	368,885	Aug. 23	2223	592	40	901
Gilchrist, Eliza, <i>et al.</i> (See Gilchrist, John B., assignor.)						
Gilchrist, John B., assignor to J. Robinson and E. Gilchrist, Chicago, Ill. Machine for sawing stone	361,219	Apr. 12	1206	{ 306 307 }	{ 39 39 }	{ 229 229 }
Gilchrist, John P., and J. B. Dunn, Rochester, N. Y. Device for assisting in putting on overcoats or cloaks	361,059	Apr. 12	958	242	39	182
Gilding, John. (See Perkins, Stephen, assignor.)						
Giles, Charles K. (See Fenner, Richard E., assignor.)						
Giles, Charles K., Chicago, Ill. Watch-case pendant	357,195	Feb. 8	676	175	38	555
Giles, Charles K., Chicago, Ill. Watch-case	363,817	May 31	2486	645	39	972
Giles, Charles K., Chicago, Ill. Watch-case	365,984	July 5	323	86	40	62
Giles, Charles K., Chicago, Ill. Watch-case	365,985	July 5	325	86	40	62
Giles, Charles K., Chicago, Ill. Watch-case	365,986	July 5	325	86	40	62
Giles, Charles K., Chicago, Ill. Watch-case	365,987	July 5	327	86	40	62
Giles, Charles K., Chicago, Ill. Watch-case	365,988	July 5	328	87	40	63
Giles, Charles K., Chicago, Ill. Watch-case	365,989	July 5	329	87	40	63
Giles, Charles K., Chicago, Ill. Watch-case	365,990	July 5	331	87	40	63
Giles, Charles K., Chicago, Ill. Watch-case	367,288	July 26	2126	572	40	425
Giles, David, Chattanooga, Tenn. Pipe-casting apparatus	358,927	Mar. 8	762	190	38	1049
Giles, George W., Buffalo, W. Va. Car-coupling	357,477	Feb. 8	1055	279	38	627
Giles, Henry T., Washington, D. C. Steam-engine governor	363,888	May 31	2579	{ 670 671 }	{ 39 39 }	{ 990 990 }
Giles, Henry T., assignor of one-fourth to A. M. Cowell, Washington, D. C. Valve-gear ..	372,666	Nov. 8	565	{ 154 155 }	{ 41 41 }	{ 586 586 }
Giles, Henry T., assignor of one-fourth to A. M. Cowell, Washington, D. C. Balanced slide-valve	373,182	Nov. 15	1366	{ 362 363 }	{ 41 41 }	{ 740 740 }
Giles, James, District 49, Cherokee county, assignor of one-fourth to F. A. Jackson, Crestline, Kans. Reel for harvesters	357,662	Feb. 15	1346	354	38	690
Giles, James, Pleasant View, assignor of one-fourth to F. A. Jackson, Cresline, Kans. Harvesting-machine	362,887	May 10	1164	311	39	696
Giles, Jason, Indian Orchard, Mass. Valve	373,522	Nov. 22	1904	505	41	852
Giles, Jason, Indian Orchard, Mass. Hydrant gate-valve	373,523	Nov. 22	1906	505	41	852
Giles, John H. (See Otis, Samuel L., assignor.)						
Giles, Julian A., assignor to A. N. Radcliffe, Oswego, N. Y. Tube-expander	361,503	Apr. 19	1582	410	39	311

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Giles, Julian A., assignor to A. N. Radcliffe, Oswego, N. Y. Tube-expander	361,504	Apr. 19	1583	410	39	311
Gilfillan, Thomas G., Union, Oreg. Safety-car	366,828	July 19	1482	395	40	296
Gilfillan, William, assignor to Sargent & Co., New Haven, Conn. Door-spring	356,633	Jan. 25	1920	503	38	389
Gilfillan, William, assignor to Sargent & Company, New Haven, Conn. Door-spring	373,360	Nov. 15	1644	435	41	791
Gill, George A., Monroeville, Pa. Self-binder for harvesters	373,454	Nov. 22	1775	{ 471 472 }	{ 41 }	828
Gill, John E., Franklin, Pa. Feed-water heater	374,956	Dec. 20	1155	302	41	1288
Gill, John E., and T. M. Foley, Franklin, Pa. Gas-burner	364,101	May 31	2889	749	39	1049
Gill, Webster, Camden, N. J. Condenser for carding-machines	357,478	Feb. 8	1056	{ 279 280 }	{ 38 }	627
Gillam, Manly M., Philadelphia, Pa. Electrolytic vaporizer for medicinal purposes	366,164	July 5	559	150	40	105
Gillenwaters, Joseph H. (See Scott, David B., assignor.)						
Gillespie, Alfred J., Atlantic, Iowa. Stringing pianos	365,593	June 28	2047	534	39	1501
Gillespie, Cyrus E., Edwardsville, Ill. Thill-coupling	368,202	Aug. 16	1253	334	40	705
Gillespie, Dudley B., Falls City, Nebr. Fence	366,089	July 5	460	125	40	87
Gillespie, James E., Warwick, N. Y. Folding extension-ladder and truck	363,889	May 31	2581	671	39	990
Gillespie, James E., Warwick, N. Y. Hose-cart	363,890	May 31	2585	671	39	990
Gillespie, James E., Warwick, N. Y. Steam-generator	368,332	Aug. 16	1443	383	40	742
Gillespie, James E., assignor to Fabric Fire Hose Company, Warwick, N. Y. Circular loom	361,758	Apr. 26	1958	{ 510 511 }	{ 39 }	388
Gillespie, Rufus R., Fort Wayne, Ind. Garment-adjuster	371,056	Oct. 4	466	117	41	92
Gillespie, Thomas A. (See Elliot, Robert C., assignor.)						
Gillespie, Thomas A. (See McSweeney, Terrence, assignor.)						
Gillespie, Thomas A., Pittsburg, Pa. Casing for gas or oil wells	368,826	Aug. 23	2143	568	40	884
Gillespie, Walter, assignor of one-half to P. S. Stevenson, Montreal, Quebec, Canada. Manufacture of hollow axles	367,289	July 26	2127	572	40	425
Gillet, Alexis F., Burlington Junction, Mo. Sawing-machine	362,270	May 3	281	78, 79	39	528
Gillet & Fils. (See Graissot, Louise, assignor.)						
Gillett, Allen P., Canton, Ill. Mowing and reaping machine	362,155	May 3	143	42	39	501
Gillett, Schuyler L., assignor of one-half to E. D. Watkins, Lima, N. Y. Machine for cleaning bottles	370,693	Sept. 27	2019	537	40	1435
Gillett, Sylvanus M., assignor to A. D. Perkins, Homer, N. Y. Vehicle-brake	370,864	Oct. 4	169	45	41	33
Gillette, George H., New York, N. Y., assignor to Newark Paper Basket Company, of New Jersey. Fruit-basket	375,320	Dec. 20	1652	433	41	1383
Gillette, Harleigh, Highland Park, Ill. Lamp-burner	373,065	Nov. 15	1186	316	41	707
Gillette, Thurber J., assignor of two-thirds to D. D. Gregory, Syracuse, N. Y. Gage for squares	373,929	Nov. 29	2474	664	41	970
Gilliland, Edward L., and J. H. Hunter, Three Runs, Pa. Straw-cutter	368,941	Aug. 30	2315	616	40	927
Gilliland, Ezra T., New York, N. Y. Telephone-receiver	356,197	Jan. 18	1291	341	38	262
Gilliland, Robert C., Snow Shoe, Pa. Wrapping-paper holder	364,915	June 14	1025	268	39	1287
Gilliland, Samuel B., Monroe City, Mo. Hay-stacker	372,138	Oct. 25	2036	521	41	421
Gillingham, Henry R., Baltimore, Md. Packing-can	365,064	June 21	1256	331	39	1338
Gillman, William E., Oxford, N. Y. Cuff-button	369,106	Aug. 30	2550	678	40	972
Gillock, Isaac N., assignor of one-half to J. Perry, Horse Cave, Ky. Car-coupling	356,685	Jan. 25	1979	520	38	401
Gilly, John P. (See Arnao, Juan, Jr., assignor.)						
Gilman Cash Railway Company. (See Blount and Kimpton, assignors.)						
Gilman, Charles S., Denver, Colo. Seal-lock	374,592	Dec. 13	609	159	41	1173
Gilman, John L., Des Moines, Iowa. Trace-carrier	357,823	Feb. 15	1586	412	38	735
Gilman, John M., Lansing, Kans. Washing-machine	357,479	Feb. 8	1057	280	38	627
Gilman, Joseph W. (See Curtis, Charles, assignor.)						
Gilman, William W., San Francisco, Cal. Printer's galley	359,208	Mar. 8	1126	293	38	1118
Gilmartin, Michael. (See Clark, John, assignor.)						
Gilmer, Joseph, Savannah, Ga. Combined try-square, calipers, &c	367,290	July 26	2128	573	40	425
Gilmore, Cassander, administrator. (See Gilmore, Othniel.)						
Gilmore, Charles C. (See Buckland, Harry W., assignor.)						
Gilmore, Charles C., Swanton, Vt. Suspenders	366,475	July 12	971	264	40	193
Gilmore, Edward, Somerville, N. J. Bolt-protector for rail-joints	360,519	Apr. 5	187	46	39	37
Gilmore, Franklin S. (See Gilmore, Willis B., assignor.)						
Gilmore, James L., Zoar, assignor of one-half to B. E. Turner, Statesborough, Ga. Vehicle-axle	375,548	Dec. 27	1962	510	41	1452
Gilmore, Othniel, deceased; C. Gilmore, North Raynham, Mass., administrator. Channel-flap-laying machine	364,757	June 14	789	208	39	1243
Gilmore, Othniel, deceased; C. Gilmore, North Raynham, assignor to E. D. Godfrey, Taunton, Mass. Last for sole-leveling machines	375,349	Dec. 27	1693	445	41	1400
Gilmore, Willis B., assignor of one-half to F. S. Gilmore, Denver, Colo. Bit-stock	374,185	Dec. 6	31	8	41	1052
Gilpin, Albert D. and B. F., Lincoln, Kans. Stalk or weed chopper	370,616	Sept. 27	1903	505	40	1414
Gilpin, Benjamin F. (See Gilpin, Albert D. and B. F.)						
Gilroy, Thomas F., New York, N. Y. Glass-beveling machine	359,439	Mar. 15	1463	{ 374 375 }	{ 38 }	1188
Gilroy, Thomas F., New York, N. Y. Glass-beveling machine	370,187	Sept. 20	1270	{ 337 338 }	{ 40 }	1288
Gilson, Dustin. (See Bonnell and Gilson.)						
Gilson, Dustin, Burlington, Iowa. Stop-valve	360,290	Mar. 29	2838	722	38	1462
Gilson, Samuel H., assignor of one-half to G. Goss, Sr., Salt Lake City, Utah Ter. Composition for pipes, artificial stone, &c	361,759	Apr. 26	1960	511	39	388
Gilson, Samuel H., assignor of one-half to G. Goss, Salt Lake City, Utah Ter. Composition for insulating and other purposes	362,076	May 3	33	10	39	479
Gilstrap, Abner L., Springfield, Mo. Steam-generator	365,000	June 14	1149	301	39	1309
Gilstrap, Abner L., Springfield, Mo. Locomotive	360,875	Apr. 12	684	179	39	134
Gilzinger, Sebastian, assignor to A. A. Crosby, Rondout, N. Y. Store-fixture	357,918	Feb. 15	1706	445	38	757
Gindele, George A. (See Bowe, Isaac, assignor.)						
Ginna, Stephen A., et al. (See Hipperling, William, assignor.)						
Giovannini, Philip, San Francisco, Cal. Maccaroni-machine	355,926	Jan. 11	894	234	38	182
Girardey, George, Bethel, assignor of one-half to W. S. Strickland, Lebanon, Ohio. Running-gear for vehicles	363,325	May 17	1769	463	39	820
Gironx, Elzear, Woburn, Mass. Car brake and starter	359,386	Mar. 15	1392	356	38	1173
Girtanner, Fred, assignor of one-half to C. and F. J. Hatz, Big Stone City, Dak. Ter. Straw-burning attachment for stoves	361,006	Apr. 12	887	224	39	168
Gitchell, Delos W., Middletown, N. Y. Machine for luring or pouncing hats	373,888	Nov. 29	2420	650	41	959
Gitchell, Delos W., Middletown, N. Y. Luring or lustering hats	373,889	Nov. 29	2421	650	41	959
Githens, George M., Brooklyn, N. Y. Rock-drill	362,617	May 10	777	214	39	625
Githens, George M., Brooklyn, N. Y. Method of and tool for drilling rock	371,679	Oct. 18	1333	346	41	279
Githens, John A. (See Newman, Elwood H., assignor.)						
Githens, Joseph C., North Tarrytown, N. Y. Rock-drill	356,464	Jan. 25	1670	437	38	342
Githens, Joseph C., North Tarrytown, N. Y. Rock-drill carriage	359,720	Mar. 22	1912	485	38	1286

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Given, John L., Boston, Mass. Pneumatic cash-carrier	367,386	Aug. 2	39	11	40	458
Given, John L., Boston, Mass. Pneumatic cash-carrier	367,753	Aug. 2	604	164	40	565
Gladding & Coombs Brothers. (See Coombs, Edgar I., assignor.)						
Glade, Claus, Dreye, near Bremen, Prussia, Germany. Circular sawing machine.....	365,512	June 28	1921	{ 499 500	{ 39	1476
Gladish, Francis M., Allville, Mo. Automatic grain-weighing machine.....	364,407	June 7	280	78	39	1142
Glaser, Heinrich (See Leinwather, Aloys M., assignor.)						
Glasgow, William, and S. S. Stevens, Chicago, Ill., assignors to Combined Electric and Trip Bell Cord Company. Electric signaling apparatus	371,445	Oct. 11	1005	261	41	204
Glass, Albert J., and H. Kimball, assignors to Janesville Machine Company, Janesville, Wis. Two-wheeled harrow	362,950	May 17	1257	333	39	720
Glass, David W. (See Palmer, John W., assignor.)						
Glass, George W., Piper City, Ill. Apparatus for dumping the grates of railway-stoves...	373,732	Nov. 22	2194	586	41	909
Glass, Washington, New Athens, Ohio. Music-chart	372,139	Oct. 25	2037	522	41	421
Glatz, Joseph, <i>et al.</i> (See Domeier and Hagemann, assignors.)						
Glazier, Elias C., assignor to Steam Gauge and Lantern Company, Rochester, N. Y. Tubular lantern	372,533	Nov. 1	364	99	41	539
Glazier, George W., Salem, assignor of five-sixths to G. A. Crosman, J. Metcalf, and J. B. Rollins, Lynn, Mass. Paper-box-covering machine.....	360,582	Apr. 5	275	68	39	53
Glazier, George W., Salem, assignor of five-sixths to G. A. Crosman, J. Metcalf, and J. B. Rollins, Lynn, Mass. Paper-box-covering machine	360,583	Apr. 5	277	68	39	53
Glazier, John J., <i>et al.</i> (See Adams, John, assignor.)						
Glazier, William H., <i>et al.</i> (See Adams, John, assignor.)						
Gleadall, Edwin, assignor to G. & H. Barnett, Philadelphia, Pa. Machine-belt	371,057	Oct. 4	467	117	41	92
Gleason, Albert H., Wabash, Ind. Button-fastening machine	375,149	Dec. 20	1429	{ 373 374 375	{ 41	1339
Gleason, Duane N., Brooklyn, N. Y. Ring for globes or shades	362,210	May 3	209	62	39	513
Gleason, Francis. (See Riggs and Gleason.)						
Gleason, Francis, Philadelphia, Pa. Roller piston-engine	356,036	Jan. 11	1055	{ 277 278	{ 38	213
Gleason, Francis, Philadelphia, Pa. Cutter-head	369,785	Sept. 13	643	174	40	1165
Gleason, Harry B., and W. H. H. Clague, assignors to said Clague and A. J. Wegman, Rochester, N. Y. Fire-place heater	357,079	Feb. 1	473	127	38	510
Gleason Manufacturing Company, E. P. (See Locker, Alfred, assignor.)						
Gleason, Mary E. (See Segog, John F., assignor.)						
Gleason, Mary E., administratrix. (See Gleason, Robert E.)						
Gleason, Robert E., assignor of one-half to A. A. Harper, Stillwater, Minn. Rowing-gear..	358,259	Feb. 22	2194	578	38	852
Gleason, Robert E., deceased, Stillwater, M. E. Gleason, administratrix, and assignor of one-half to J. F. Segog, Duluth, Minn. Chain	372,613	Nov. 1	483	131	41	561
Gleason, Robert E., deceased, Stillwater; M. E. Gleason, administratrix and assignor of one-half to J. F. Segog, Duluth, Minn. Hat-rack	374,830	Dec. 13	945	247	41	1240
Gleason, Timothy, Red Wing, Minn. Metallic railway-tie	359,440	Mar. 15	1465	375	38	1188
Gleason, William D. (See Hogan, Hugh F., assignor.)						
Gleich, Philip, and H. S. Krause, St. Paul, Minn. Hose-coupling.....	373,825	Nov. 29	2335	626	41	943
Gleissner, William E. (See Good, Milton D., assignor.)						
Glen Cove Machine Company. (See Gray, William H., assignor.)						
Glen Cove Manufacturing Company. (See Grimm, Paul H., assignor.)						
Glen, Elias B., <i>et al.</i> (See Miller, Marcus A., assignor.)						
Glenn, Edmund L., assignor to S. W. Evans, Jr., Philadelphia, Pa. Retainer for umbrella and parasol runners.....	362,888	May 10	1165	311	39	697
Glenn, John S., Chicago, Ill. Swivel-handle for valves and cocks.....	367,513	Aug. 2	234	67	40	496
Glidden, Charles W., Lynn, assignor to McKay & Bigelow Heeling Machine Association, Boston, Mass. Heeling-machine	374,894	Dec. 13	1035	{ 271 272	{ 41	1258
Glines, Humphrey M., Boston, Mass. Car-brake.....	363,382	May 24	1843	485	39	844
Glines, John W., Alexandria, Minn. Car-coupling	371,058	Oct. 4	468	117	41	92
Glinemann, Henry C., Bayonne, N. J. Washing-machine.....	365,594	June 28	2048	534	39	1501
Globe Files Company. (See Yeiser and Dom, assignors.)						
Globe Iron Roofing and Corrugating Company. (See Andrews, Joseph A., assignor.)						
Gloekner, John, Pittsburg, Pa. Dinner-pail	368,469	Aug. 16	1645	439	40	781
Gloekler, Charles A., Pittsburg, Pa. Rope-fastening	373,183	Nov. 15	1370	363	41	740
Glor, Peter P., Varysburg, N. Y. Means for operating vat-covers	370,694	Sept. 27	2020	537	40	1435
Glover, Charles, Hartford, Conn. Saw-screw	375,350	Dec. 27	1693	445	41	1400
Glover, George T., Chicago, Ill. Traction-engine	360,584	Apr. 5	278	68	39	53
Glover, Henry P. (See Bowling, Enoch C., assignor.)						
Glynn, Nathaniel, assignor of one-half to H. B. Rusler, Johnstown, Ohio. Fruit-evaporator.	367,514	Aug. 2	235	68	40	496
Gmehlin, Paul. (See Dieckmann, Georg F., assignor.)						
Gmehlin, Paul, New York, N. Y. Key-frame for piano-fortes	356,759	Feb. 1	25	8	38	428
Gnehm, Robert, assignor to Society of Chemical Industry, Basle, Switzerland. Production of a new ethyl-ether	361,690	Apr. 26	1867	.....	39	373
Gnichwitz, Rudolph, Ashbourne, Pa. Apparatus for backing electrotypes	369,706	Sept. 13	545	150	40	1148
Goble, Elisha W. (See Rivers, Thomas L., assignor.)						
Gocht, Reinhold, assignor to C. F. F. Steudtner, Zittau, Saxony, Germany. Iron beam and nail-holding device thereof.....	359,721	Mar. 22	1913	485	38	1286
Goddard, Ezra G., East Saginaw, Mich. Attachment for plows.....	375,283	Dec. 20	1598	419	41	1373
Goddard, James C., <i>et al.</i> (See Goddard, William L., assignor.)						
Goddard, William L., Yonkers, assignor of two-thirds to J. C. Goddard and H. C. Willis, Brooklyn, N. Y. Machine for making coiled-wire springs	357,380	Feb. 8	917	{ 241 242	{ 38	601
Godding, Herbert L. (See Benton and Godding.)						
Goddu, Louis, Winchester, Mass. Endless railway system	369,335	Sept. 6	33	10, 11	40	1041
Goddu, Louis, Winchester, Mass. Safety-brake for cable cars	370,388	Sept. 27	1553	416	40	1350
Goddu, Louis, Winchester, assignor to J. W. Brooks, trustee, Cambridge, Mass. Machine for making shoe-sole wire	360,428	Apr. 5	43	11, 12	39	10
Goddu, Louis, Winchester, assignor to J. W. Brooks, trustee, Cambridge, Mass. Nailing-machine	360,585	Apr. 5	282	69	39	54
Goddu, Louis, Winchester, assignor to J. W. Brooks, trustee, Cambridge, Mass. Machine for making cut nails	370,135	Sept. 20	1195	{ 315 316 317	{ 40	1274
Goddu, Louis, Winchester, assignor to J. W. Brooks, Cambridge, and F. F. Stanley, Boston, Mass., trustees. Sole-fastening wire	370,136	Sept. 20	1200	317	40	1275
Godefroy, Alexandre F., St. Louis, Mo. Railway	355,927	Jan. 11	895	{ 234 235 236	{ 38	182
Godfrey, Alfred, New York, N. Y. Rotary gripper platen printing-machine.....	374,869	Dec. 13	999	{ 261 262	{ 41	1250

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Godfrey, Charles H., Fremont, Nebr. Water-supply system	368,942	Aug. 30	2317	616	40	927
Godfrey, Everett D. (See Gilmore, Othniel, assignor.)						
Godfrey, Fred A., Holyoke, assignor to G. F. Pottle, West Medford, Mass. Uniting metals.	359,319	Mar. 15	1280	332	38	1154
Godfrey, Freeman, Grand Rapids, Mich. Gumming and sticking machine	357,080	Feb. 1	476	127	38	510
Godfrey, Freeman, Grand Rapids, Mich. Gummed sheet or web	357,081	Feb. 1	479	128	38	511
Godfrey, Henry M., Jonesburg, Mo. Cultivator adjustable shovel-block	356,361	Jan. 18	1527	401	38	307
Godfrey, Jonathan, assignor to Compressed Paper Box Company, Bridgeport, Conn. Machine for making bands for paper boxes	365,124	June 21	1346	356	39	1354
Godfrey, Luman M., assignor of one-half to G. Liddle, Colon, Mich. Windmill	356,634	Jan. 25	1922	503	38	389
Godfrey, Robert, Walworth, Wis. Corn-cutter	360,219	Mar. 29	2724	689	38	1440
Godfrey, Walter J., Denver, Colo. Water-jack for smelting-furnaces	367,904	Aug. 9	829	222	40	618
Godfrey, Wilson, New York, N. Y. Bottle-casing	365,513	June 28	1925	501	39	1477
Godfrey, Wilson, and G. W. Halstead, Brooklyn, N. Y. Machine for forming veneer drums	360,344	Mar. 29	2902	739	38	1474
Godfrey, Wilson, and G. W. Halstead, Brooklyn, N. Y.; said Halstead assignor to said Godfrey. Machine for forming veneer drums	369,638	Sept. 6	454	{ 126 127 }	{ 40 39 }	{ 1121 1123 }
Godkin, Otto W., Berkeley, Cal. Adjustable lid and drainer for cooking-vessels	364,341	June 7	180	50	39	1123
Godward, Owen, New Albany, Ohio. Combined whip and cane	375,485	Dec. 27	1871	489	41	1434
Goehring, Charles L., Allegheny, Pa. Wood molding and stave machine	356,066	Jan. 11	1099	{ 291 292 }	{ 38 38 }	{ 221 852 }
Goehring, Charles L., Allegheny City, Pa. Stave-shaping machine	358,260	Feb. 22	2196	578	38	852
Goehring, Charles L., Allegheny, Pa. Thill-coupling	360,771	Apr. 5	531	137	39	99
Goehring, Charles L., Allegheny, Pa. Wood-molding machine	361,868	Apr. 26	2128	551	39	419
Goehring, Charles L., Allegheny, Pa. Stave-machine	361,869	Apr. 26	2130	{ 552 553 }	{ 39 39 }	{ 420 420 }
Goehst, Henry. (See Soden and Goehst.)						
Goelet, Edward B., Fort Worth, Tex. Combined chair and sleeping car	363,891	May 31	2586	672	39	991
Goertz, August, Newark, N. J. Fastening for satchels, &c	355,987	Jan. 11	991	261	38	201
Goertz, August, Newark, N. J. Catch for hand-bags	366,770	July 19	1407	376	40	283
Goettel, John, Boston, Mass., assignor of one-half to F. Balddt, Chester, Pa. Car-wheel	363,383	May 24	1845	486	39	844
Goetz, Adam D., Martinsburg, Pa. Die for cutting leather	364,643	June 14	614	165	39	1211
Goetz, George W. (See Wellman and Goetz.)						
Goetz, Theodor, New York, N. Y. Caster	367,387	Aug. 2	42	11	40	459
Goewey, George, Philadelphia, Pa., assignor of one-half to C. B. Dungan, Cape May, N. J. Spring	359,070	Mar. 8	947	242	38	1084
Goff, Daniel, <i>et al.</i> (See Norgrave, George B., assignor.)						
Goff, Daniel, Millville, N. J. Car brake and starter	368,581	Aug. 23	1799	479	40	820
Goff, Daniel, assignor of one-half to J. L. Smith, Millville, N. J. Rein-holder	359,505	Mar. 15	1562	399	38	1206
Goff, Emmett S. (See Lovett and Goff.)						
Goff, George W., assignor to East Hampton Bell Company, East Hampton, Conn. Bell	373,654	Nov. 22	2090	558	41	888
Goff, William H., Council Bluffs, Iowa. Windmill	365,991	July 5	332	87, 88	40	63
Goffin, Louis P., and E. Vanriet, Brussels, Belgium. Securing railway-rails to metal sleepers.	368,714	Aug. 23	1987	528	40	855
Goggan, John, <i>et al.</i> (See Flett, John H., assignor.)						
Gogin, George W., <i>et al.</i> (See Wheeler, Elbridge, assignor.)						
Gogin, George W., <i>et al.</i> , trustees. (See Wheeler, Elbridge, assignor.)						
Gogin, Thomas, <i>et al.</i> , trustees. (See Loveren, Arthur D., assignor.)						
Golbert, Robert L. (See Mawhinney, Samuel, assignor.)						
Gold, Joseph S., Columbus, Ohio. Stand for displaying goods	355,988	Jan. 11	992	261	38	202
Gold, Joseph S., assignor to W. H. Mueller and H. Butler, Columbus, Ohio. Machine for trimming the ends of billiard-cues	365,301	June 21	1595	415	39	1401
Goldenburg, William F. (See Boyd and Goldenburg.)						
Goldie, William, West Bay City, Mich. Railway-rail chair or fastening	356,760	Feb. 1	26	8	38	428
Golding, James B., and O. D. Wright, assignors to Oneida Community, (limited,) Community, N. Y. Animal-trap	356,635	Jan. 25	1923	504	38	389
Golding, William H., Chelsea, Mass. Quoin	359,017	Mar. 8	884	225	38	1072
Goldman, Edward, Baltimore, Md. Shoulder-pad	359,441	Mar. 15	1466	375	38	1188
Goldsmith, Bernard, Milwaukee, Wis. Car-heater	371,059	Oct. 4	469	117	41	92
Goldsmith, Byron B., assignor to G. A. Goldsmith, New York, N. Y. Pencil	364,916	June 14	1026	268	39	1287
Goldsmith, Gustavus A. (See Goldsmith, Byron B., assignor.)						
Goldsmith, Gustavus A. (See Hoffman, Joseph, assignor.)						
Goldsmith, Gustavus A. (See Michael, Alfred, assignor.)						
Goldsmith, John S., New York, N. Y. Time-check apparatus	358,032	Feb. 22	1860	{ 492 493 }	{ 38 39 }	{ 791 1354 }
Goldsmith, William H., Fall River, Mass. Cotton picking and cleaning machinery	365,125	June 21	1348	357	39	1354
Goldwater, Henry, assignor to J. Tyroler, New York, N. Y. Apparatus for refining illuminating and lubricating oils	366,720	July 19	1340	359	40	271
Gomer, Charles, assignor of one-half to C. M. Zeh, Newark, N. J. Car-axle box and journal	360,802	Apr. 5	570	149	39	107
Gomer, Charles, assignor of one-half to C. M. Zeh, Newark, N. J. Car-axle box	372,905	Nov. 8	939	254	41	653
Gompper, Louis. (See Bennett and Gompper.)						
Gonon, Paul E., assignor to J. F. Dienier, New York, N. Y. Fastener for envelopes, &c	368,763	Aug. 23	2059	545	40	868
Gonon, Paul E., assignor of one-half to A. Gouget, New York, N. Y. Combined pencil-holder and cigar-cutter	370,735	Sept. 27	2083	552	40	1447
Gooch, Emma J., Washington, D. C. Napkin-supporter	368,582	Aug. 23	1801	480	40	820
Gooch, Shelby C., Adairville, Ky. Weather-strip	375,619	Dec. 27	2065	537	41	1469
Good, John, Brooklyn, N. Y. Machinery for drawing and spinning hemp, &c	355,870	Jan. 11	809	{ 212 213 }	{ 38 38 }	{ 164 164 }
Good, Milton D., Hope, assignor to himself and W. E. Gleissner, Abilene, Kans. Floor-clamp	361,060	Apr. 12	958	242	39	182
Goodall, Edwin, New York, N. Y. Check, draft, or money-order	373,734	Nov. 22	2197	587	41	910
Goode, William H. C., Sidney, Ohio. Wheeled earth-scraper	367,388	Aug. 2	43	11, 12	40	459
Goodell, Albert D., assignor to Miller's Falls Company, Miller's Falls, Mass. Drill-chuck	374,593	Dec. 13	611	159	41	1174
Goodell, Albert D., assignor to Miller's Falls Company, Miller's Falls, Mass. Drill-chuck	374,594	Dec. 13	612	160	41	1174
Goodell, Dexter W., assignor to Florence Machine Company, Florence, Mass. Sewing-machine	365,514	June 28	1926	501	39	1477
Goodell & Waters. (See Myrick, Gilbert S., assignor.)						
Goodenough, Franklin L., assignor of one-half to R. N. Randall, Windsor, N. Y. Machine for setting caps on whips, &c	374,532	Dec. 6	521	136	41	1146
Goodenow, Albert L., Utica, N. Y. Hot-air furnace	356,392	Jan. 18	1567	{ 412 413 }	{ 38 38 }	{ 314 314 }
Goodenow, Albert L., Utica, N. Y. Grate for stoves	369,334	Sept. 6	32	9	40	1041
Goodenow, Fred E. H., Springfield, Mo. Piano tuning-pin	375,150	Dec. 20	1433	375	41	1340
Goodenow, Henry, Montrose, Wis. Compound metal-working machine	356,118	Jan. 18	1189	315	38	244
Goodfellow, Thomas G., Chicago, Ill. Coal-elevator	374,895	Dec. 13	1041	272	41	1259

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Goodhue, George J., Stevens Point, assignor of one-half to H. M. Wadleigh, Hatley, Wis. Timber structure for mines	358,261	Feb. 22	2198	579	38	853
Goodhue, George J., Stevens Point, assignor of one-half to H. M. Wadleigh, Hatley, Wis. Wood-working machine	374,670	Dec. 13	718	189	41	1196
Goodhue, George J., Stevens Point, assignor of one-half to H. M. Wadleigh, Hatley, Wis. Wood-working machine	374,671	Dec. 13	720	189	41	1196
Goodhue, George J., Stevens Point, assignor of one-half to H. M. Wadleigh, Hatley, Wis. Wood-working machine	374,672	Dec. 13	721	189	41	1196
Goodhue, Wells, assignor of one-half to G. J. Adams, Chicago, Ill. Automatic indicator	369,639	Sept. 6	455	127	40	1121
Gooding, William. (See Hendra and Gooding.)						
Goodman, Bernard, Cincinnati, Ohio. Trousers	374,957	Dec. 20	1156	302	41	1289
Goodman, Burkard, New York, N. Y. Open-work elastic braid	262,440	May 3	514	144	39	574
Goodman, Burkard, New York, N. Y. Necktie-fastener	375,418	Dec. 27	1782	466	41	1417
Goodman Manufacturing Company, B. (See Smith, William E., assignor.)						
Goodman, Simon, Dayton, Ohio. Lady's shoe-mirror	360,520	Apr. 5	189	46	39	37
Goodman, William D., and F. Tuttle, Paris, Tex. Harness-saddle	361,936	Apr. 26	2216	576	39	436
Goodrich, Adolphus S., assignor of one-half to J. J. Moore, New York, N. Y. Combined ruler and calendar	365,916	July 5	227	60	40	44
Goodrich, David W., New York, N. Y., and S. W. Corwin, Paterson, assignors, by mesne assignments, to E. Simmons, Keyport, N. J. Wardrobe attachment	357,554	Feb. 8	1181	311	38	650
Goodrich, George H., St. Paul, Minn. Fare-box	374,471	Dec. 6	430	112	41	1128
Goodrich, Harry C. (See Parsons, Winslow R., assignor.)						
Goodrich, Lester A., Hillsdale, Mich. Measuring-vessel	361,691	Apr. 26	1868	484	39	373
Goodrich, Osman E., Allegan, Mich. Flat-iron stand	371,060	Oct. 4	471	118	41	93
Goodridge, John C., Jr., New York, N. Y. Laying concrete under water	358,853	Mar. 8	649	160	38	1029
Goodridge, William M., Highland Park, assignor to Western Electric Company, Chicago, Ill. Telephone-exchange apparatus	367,754	Aug. 2	606	164	40	565
Goodridge, William M., Highland Park, assignor to Western Electric Company, Chicago, Ill. Telephone-switch	371,260	Oct. 11	747	192	41	155
Goodson, Rufus, Barnesville, Mo. Evaporator	365,515	June 28	1927	501	39	1477
Goodspeed, Henry C., et al. (See Foote, Theodore M., assignor.)						
Goodwillie, David H., New York, N. Y. Powder-insufflator	355,816	Jan. 11	729	190	38	150
Goodwillie, David H., New York, N. Y. Cautery electrode and shield	359,506	Mar. 15	1563	399	38	1206
Goodwillie, David H., New York, N. Y. Electro-cautery instrument for use in surgery	360,429	Apr. 5	46	12	39	10
Goodwin, Edward F., Taunton, Mass. Shutter-worker	375,151	Dec. 20	1434	375	41	1340
Goodwin, James D., Durham, N. C. Machine for granulating and cleaning tobacco	358,549	Mar. 1	199	47	38	940
Goodwin, John B., assignor to W. P. Goodwin, Providence, R. I. Folding and swinging gate for railway-cars	369,284	Aug. 30	2769	739	40	1017
Goodwin, John M., Sharpsville, Pa., assignor of one-fourth to I. A. Evans, Boston, Mass. Towing boats, &c., in canals	371,680	Oct. 18	1334	346	41	279
Goodwin, L. S., et al. (See Eckhart, John G., assignor.)						
Goodwin, Levi H., Cincinnati, Ohio. Spool-holder for sewing-machines	367,972	Aug. 9	930	252	40	637
Goodwin, M. A., et al. (See Howe, Thomas B., assignor.)						
Goodwin, R. D., et al. (See Howe, Patrick, assignor.)						
Goodwin, Thomas E., Nashville, Tenn. Sawing and grinding machine	356,583	Jan. 25	1840	{ 482 483 }	{ 38 }	374
Goodwin, Warren R., Stoneham, assignor to E. B. Seaver, trustee, Boston, Mass. Sole-laying machine	367,905	Aug. 9	830	223	40	618
Goodwin, William F., Stelton, N. J. Railway track and truck	359,507	Mar. 15	1564	{ 400 401 402 }	{ 38 }	1206
Goodwin, William F., Stelton, N. J. Construction and operation of railways	370,534	Sept. 27	1776	474	40	1390
Goodwin, William P. (See Goodwin, John B., assignor.)						
Goodwin, Williamson, Moro, Ark. Roundabout	356,037	Jan. 11	1059	278	38	214
Goodwyne, Robert M., Forsyth, Ga. Water-elevator	358,152	Feb. 22	2048	{ 538 539 }	{ 38 }	824
Goodyear, Albert, New Haven, Conn. Tongue for vehicles	360,009	Mar. 29	2382	602	38	1378
Goodyear, Albert, New Haven, Conn. Grain-binder	374,595	Dec. 13	613	{ 160 161 }	{ 41 }	1174
Goodyear, Lewis, Trumansburg, N. Y. Till-alarm	368,084	Aug. 9	1083	{ 288 289 }	{ 40 }	665
Goodyear & McKay Sewing Machine Company. (See Dancel, Christian, assignor.)						
Goodyear & McKay Sewing Machine Company. (See Smith, Earle H., assignor.)						
Goodyear, Watson A., New Haven, and L. Ketchum, Saugatuck, Conn. Apparatus for heating water and other liquids	355,314	Jan. 4	30	8, 9	38	7
Goodyear, Watson A., New Haven, and L. Ketchum, Saugatuck, Conn. Device for regulating the feed and discharge of liquids	356,831	Feb. 1	118	32	38	445
Gorden, Albert B., et al. (See Bander, Charles C., assignor.)						
Gordon, Alexander, assignor to Niles Tool Works, Hamilton, Ohio. Drilling-machine	362,618	May 10	779	214	39	625
Gordon Electric Light Company of America. (See Gordon, James E. H., assignor.)						
Gordon, Fred. W., assignor to Gordon Strobel & Laureau, Philadelphia, Pa. Converter	361,624	Apr. 19	1764	457	39	345
Gordon, Fred. W., V. O. Strobel, and B. Beisel, assignors to Gordon, Strobel & Laureau, Philadelphia, Pa. Furnace-protecting	358,604	Mar. 1	285	68	38	956
Gordon, Isaac, Kenosha, Wis. Scissors-holder	368,943	Aug. 30	2318	616	40	928
Gordon, James E. H., 28 Collingham Place, Kensington, county of Middlesex, England. Electric meter	355,871	Jan. 11	813	213	38	165
Gordon, James E. H., 28 Collingham Place, Kensington, county of Middlesex, England, assignor to Gordon Electric Light Company of America, (limited,) Philadelphia, Pa. Electric lighting system	358,346	Feb. 22	2310	{ 611 612 }	{ 38 }	875
Gordon, James F., Rochester, N. Y., assignor to P. T. Dodge, Washington, D. C. Cord-holder for grain-binders	359,781	Mar. 22	2017	510	38	1304
Gordon, John. (See Gilbert and Gordon.)						
Gordon, John, Jr., and E. J. B. Lowdon, Dundee, Scotland. Recording speed and pressure air or gas gage	369,932	Sept. 13	881	{ 233 234 }	{ 40 }	1209
Gordon, John B., et al. (See Jones, Reuben, assignor.)						
Gordon, Oliver A., Axtell, Nebr. Sleigh-brake	362,951	May 17	1260	333	39	721
Gordon, Selden S., et al. (See Fox, Frank A., assignor.)						
Gordon, Strobel & Laureau. (See Gordon, Fred. W., assignor.)						
Gordon, Strobel & Laureau. (See Gordon, Strobel, and Beisel, assignors.)						
Gordon, Strobel & Laureau. (See Laureau, Louis G., assignor.)						
Gordon, Strobel & Laureau. (See Strobel, Victor O., assignor.)						
Gordon, Thomas, Philadelphia, Pa., assignor to Siemens Lungren Company, of Pennsylvania. Regenerative gas-burner	374,058	Nov. 29	2662	{ 715 716 }	{ 41 }	1007
Gordon, Thomas H., Baldwinsville, N. Y. Mail-bag fastening	375,446	Dec. 27	1823	477	41	1425

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Gordon, William, Boston, Mass. Shank-stiffener for boots or shoes	372,140	Oct. 25	2038	522	41	421
Gordon, William, assignor to A. Fuller, trustee, Boston, Mass. Sole-edge-burnishing machine	364,585	June 7	538	144	39	1189
Gordon, William F., Bay City, Mich. Step-ladder	357,706	Feb. 15	1407	370	38	702
Gordon, William H., Brambleton, Va. Seine-hauling apparatus	371,446	Oct. 11	1006	261	41	205
Gordon, William L., Rome, Ga. Car-coupling	375,152	Dec. 20	1435	375	41	1340
Gore, Alfred H., Waldron, Ind. Wire-fence machine	358,605	Mar. 1	287	68	38	957
Gorman, Francis, New York, N. Y. Device for constructing arches	375,620	Dec. 27	2066	537	41	1469
Gorman, John J. (See Boudreaux, Leandre, assignor.)						
Gormley, William, Chicago, Ill. Pipe-wrench	369,336	Sept. 6	40	12	40	1042
Gormly, Robert W., Troy, N. Y. Burr-wheel for knitting-machines	375,351	Dec. 27	1695	445	41	1400
Gorrell, Charles L., assignor of one-half to J. R. Whitaker, Belaire, Md. Cable-railway grip	359,859	Mar. 22	2146	541	38	1327
Gorrell, John B. (See Lyon and Gorrell.)						
Gorrill, Richard W., Oakland, Cal. Pile-protector	372,141	Oct. 25	2039	522	41	421
Gorsuch, Benjamin F., assignor of one-half to J. T. Shirley, Martinsburg, Pa. Singletree-plate	372,614	Nov. 1	485	131	41	561
Gorsuch, George W., Martinsburg, Pa. Spring-tooth harrow	368,146	Aug. 9	1168	311	40	681
Gorton, James W. (See Thompson and Gorton.)						
Gorton, Robert. (See Randolph, Frank D., assignor.)						
Gorton, Robert, Plainfield, N. J. Hook or hanger	367,515	Aug. 2	237	68	40	497
Gorton, Robert, Plainfield, N. J. Hook or hanger. (Reissue)	10,888	Dec. 13	1087	284	41	1268
Gosch, Ernst G., Freeport, Mich. Vent-stopper	357,919	Feb. 15	1707	445	38	757
Gosling, Henry J., Philadelphia, Pa. File-cutting machine	365,469	June 28	1851	481	39	1462
Goss, Edward, assignor of two-thirds to C. H. Magoon and C. J. Collins, St. Johnsbury, Vt. Feed-water heater	355,989	Jan. 11	993	261	38	202
Goss, Edward, St. Johnsbury, assignor to G. W. Keneson and W. V. Hardy, Concord, Vt. Clothes-drier	372,217	Oct. 25	2148	551	41	443
Goss, Frederick L. and S. G., assignors to Goss Printing Press Company, Chicago, Ill. Damping-machine	363,326	May 17	1770	464	39	820
Goss, Frederick L. and S. G., assignors to Goss Printing Press Company, Chicago, Ill. Ink-roller adjustment for printing-machines	363,327	May 17	1772	464	39	820
Goss, Frederick L. and S. G., assignors to Goss Printing Press Company, Chicago, Ill. Sheet-delivery for printing-machines	363,328	May 17	1774	465	39	821
Goss, George. (See Gilson, Samuel H., assignor.)						
Goss Printing Press Company. (See Goss, Frederick L. and S. G., assignors.)						
Goss, Sam G. (See Goss, Frederick L. and S. G.)						
Gottfried, Matheus, Chicago, Ill. Apparatus for cooling beer in fermenting-tubs	357,196	Feb. 8	677	175	38	555
Gottfried, Matheus, Chicago, Ill. Mash-tub bottom	371,261	Oct. 11	749	192	41	155
Gottschalk, Jonas D., New York, N. Y. Fastener for neck-wear	373,930	Nov. 29	2476	664	41	970
Gottstein, Peter R., Houghton, Mich. Portable sawing-machine	365,917	July 5	227	60, 61	40	44
Goubert, Auguste A., Brooklyn, N. Y. Feed-water heater	367,516	Aug. 2	239	68, 69	40	497
Gouget, Athanase. (See Gonon, Paul E., assignor.)						
Gough, Jacob M., and J. Speakman, New Castle, Ind. Fence-post	357,314	Feb. 8	830	216	38	584
Gough, Jacob M., J. Speakman, Newcastle, and N. F. Canaday, Hagerstown, Ind. Combined school desk and seat	367,037	July 26	1750	472	40	355
Gould, Aaron P., and H. R. Spencer, Canton, Ohio. Fodder-cutter	360,010	Mar. 29	2383	{ 602 603 }	{ 38 }	1378
Gould, Charles, Lowell, Mass. Making vinegar	375,621	Dec. 27	2066	537	41	1470
Gould, Charles, Lowell, Mass. Vinegar apparatus	375,622	Dec. 27	2068	538	41	1470
Gould, Claude C., assignor of five-eighths to W. Smith, Batavia, and P. W. Scribner, Tonawanda, N. Y. Grounding-switch for telephone-instruments	356,038	Jan. 11	1060	278	38	214
Gould, Claude C., assignor of five-eighths to W. Smith, Batavia, and P. W. Scribner, Tonawanda, N. Y. Adjustable seat	356,403	Jan. 18	1581	416	38	317
Gould, Claude C., Buffalo, and W. Smith, Batavia, assignors of one-fourth to P. W. Scribner, Tonawanda, N. Y. Telephone switch system	355,928	Jan. 11	899	236	38	183
Gould, Claude C., and W. Smith, Batavia, assignors of one-fourth to P. W. Scribner, Tonawanda, N. Y. Telephone switch system	355,929	Jan. 11	904	237	38	184
Gould, Claude C., and W. Smith, Batavia, assignors of one-fourth to P. W. Scribner, Tonawanda, N. Y. Electric-cable clip	362,376	May 3	426	118	39	558
Gould, Holman, Brockton, Mass. Leather-cutting knife	370,736	Sept. 27	2084	552	40	1447
Gould, James, Jr., Maywood, Ill. Safety-lever for clutches	373,455	Nov. 22	1780	473	41	829
Gould, John C., Chicago, Ill. Animal-trap	362,952	May 17	1261	334	39	721
Gould, John C., Chicago, Ill. Nail-plate feeder	367,389	Aug. 2	44	12	40	459
Gould, John C., Chicago, Ill. Nail-plate feeder	368,827	Aug. 23	2145	568	40	884
Gould, John C., Chicago, Ill. Nail-plate feeder	369,933	Sept. 13	882	234	40	1209
Gould, Lewis E., Nashua, N. H. Eaves-trough hanger	368,828	Aug. 23	2146	569	40	885
Gould, Robert S. (See Lindberg, Theodore, assignor.)						
Gould, Robert S. (See Lindberg, Theodore J. P. F., assignor.)						
Gould, Robert S., East Orange, N. J. Curtain-pole ring	355,521	Jan. 4	294	79	38	59
Gould, Robert S., East Orange, N. J. Curtain-holder	361,007	Apr. 12	888	224	39	168
Gould, Robert S., East Orange, N. J. Curtain-pole socket	363,954	May 31	2694	698	39	1010
Gould, Robert S., East Orange, N. J. Curtain-pole angle-joint	366,771	July 19	1408	377	40	283
Gould, Samuel A., assignor to J. C. Burmeister, Chicago, Ill. Saw-sharpening machine	365,337	June 21	1646	{ 429 430 }	{ 39 }	1411
Gould, William F. (See McGlothlen, Charles L., assignor.)						
Goulds Manufacturing Company. (See Aldrich, Roscoe H., assignor.)						
Gourd, Ernest W., West Quincy, Mass. Knitting stockings	372,309	Nov. 1	35	11, 12	41	478
Gourlay, A. S., et al. (See Ryan, Luke, assignor.)						
Gouzenbach, Charles A. (See Ebnetter, Johann J., assignor.)						
Gowell, Frederick W., Somerville, assignor to C. P. Dearborn, Boston, Mass. Adjustable counter-seat	363,226	May 17	1637	430	39	795
Gowen, William, Wausau, Wis. Saw-mill dog	369,517	Sept. 6	275	76, 77	40	1086
Gowen, William, Wausau, Wis. Saw-mill carriage	369,518	Sept. 6	277	77	40	1086
Gowen, William, Wausau, Wis. Saw-hammering machine	372,667	Nov. 8	568	{ 155 156 }	{ 41 }	587
Gowen, William, Wausau, Wis. Saw-hammering machine	372,668	Nov. 8	572	156	41	587
Gowen, William, Wausau, Wis. Saw-hammering machine	372,669	Nov. 8	573	156	41	588
Gowen, William, Wausau, Wis. Saw-hammering machine	372,670	Nov. 8	575	{ 156 157 }	{ 41 }	588
Gowing, D. H. (See Watkins, Harry, assignor.)						
Goy-Blanc, Ami F., Geneva, Switzerland. Stop-watch	356,362	Jan. 18	1528	{ 401 402 }	{ 38 }	307
Gracey, Robert, Allegheny, Pa. Axle	365,178	June 21	1418	373	39	1368

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Gracey, Robert, assignor to W. F. Patterson, Allegheny City, Pa. Manufacture of axle-skeins	371,311	Oct. 11	816	{ 208 209 }	{ 41 }	168
Gracey, Robert, assignor to W. F. Patterson, Allegheny City, Pa. Making axle-skeins.	371,312	Oct. 11	819	209	41	168
Grader, George W., Marblehead, Mass. Sector-lever press.	362,953	May 17	1262	334	39	721
Gradwell, William J. (See Dixon and Gradwell.)						
Grady, Edwin A., Walworth, Dak. Ter. Harrow	357,278	Feb. 8	781	203	38	575
Graemiger, August, Crompton, assignor to Crompton Company, Crompton and Providence, R. I. Process of and apparatus for dyeing, scouring, bleaching, and otherwise treating yarns in cops	368,715	Aug. 23	1988	{ 528 529 }	{ 40 }	855
Graemiger, August, assignor to Crompton Company, Crompton, R. I. Apparatus for dyeing, scouring, and bleaching yarn in cops.	372,795	Nov. 8	767	208	41	622
Graf, Adolph J. C., Hamburg, Germany. Buckle or fastening for suspenders, &c.	373,735	Nov. 22	2198	587	41	910
Graf, John J., Cincinnati, Ohio. Wash-stand	361,585	Apr. 19	1702	439	39	333
Graf, Morsback & Co. (See Duvall, Anthony F., assignor.)						
Graf, William F., and C. Keck, Cincinnati, Ohio. Harness trimmer and burnisher.	372,310	Nov. 1	38	12. 13	41	479
Grafenstatt, Arnold J., and W. Tweedie, Minneapolis, Minn. Soda-motor.	357,592	Feb. 15	1241	327	38	672
Graff, Albert, <i>et al.</i> (See Miller, Edward L., assignor.)						
Grafflin, George W. (See Bixby, Arthur, assignor.)						
Graham, Charles, assignor of one-half to C. G. Hutchinson, Chicago, Ill. Machine for making coiled-wire springs	375,064	Dec. 20	1303	{ 340 341 }	{ 41 }	1315
Graham, Edmund H. (See Woodbury, Levi, assignor.)						
Graham, Edmund H., assignor of one-half to G. R. Andrews, Biddeford, Me. Tag holder or fastener	360,680	Apr. 5	404	103	39	76
Graham, John, Chicago, Ill. Safety water-gage	372,848	Nov. 8	858	229	41	638
Graham, Martin F., and J. A. Yost, assignors of one-half to O. E. and J. P. North, Springfield, Ohio. Necktie	358,033	Feb. 22	1866	493	38	792
Graham, Muckersie G., Ottumwa, Iowa. Cultivator	357,707	Feb. 15	1408	{ 370 371 }	{ 38 }	702
Graham, Park B., Greencastle, Ind. Guide for edge-molding machines	359,071	Mar. 8	948	242	38	1085
Graham, Tilghman, Albany, Tex. Penman's arm-rest	364,917	June 14	1028	269	39	1287
Graham, William J. (See Sullivan and Graham.)						
Graham, William M., Kalamazoo, Mich. Two-wheeled vehicle	369,987	Sept. 13	964	255	40	1224
Graisot, Louise, assignor to Gillet & Fils, Lyons, France. Dressing silk	371,498	Oct. 11	1079	.....	41	219
Grammes, Lewis F., assignor of one-half to C. J. P. Bittner, Allentown, Pa. Cam-cylinder for knitting-machines.	360,430	Apr. 5	50	12	39	11
Grand Rapids Felt Boot Company. (See Berkey, Julius, assignor.)						
Grandy, Edward F. (See Copeland, Crisp, and Grandy.)						
Grange, William, Philadelphia, Pa. Bail-car	371,136	Oct. 4	573	146	41	113
Granger, Almon M., Medford, Mass. Automatic fire-extinguishing apparatus.	367,390	Aug. 2	46	12	40	460
Granger, Harry, <i>et al.</i> (See Ennis, Henry J., assignor.)						
Granger, Thomas, New York, N. Y. Machine for making paper tubes	373,655	Nov. 22	2091	{ 558 559 }	{ 41 }	888
Granier, Frank L. M., Raymond, Ill. Harness	363,818	May 31	2487	645	39	972
Granite Roofing Company. (See Miner, Henry M., assignor.)						
Grant, David D., Franklin, Pa. Combined ticket-case and diagram	370,535	Sept. 27	1778	474	40	1390
Grant, Edward C., Ottawa, Ontario, Canada. Finger-tip for counting bank-notes.	371,447	Oct. 11	1007	262	41	205
Grant, Emmett C., Farmer Village, N. Y. Buckle-plate	355,763	Jan. 11	645	169	38	136
Grant, George B., Maplewood, Mass. Calculating-machine	368,528	Aug. 16	1723	459	40	796
Grant, Horace D. (See Benway, Eli W., assignor.)						
Grant, James C., assignor of one-half to J. C. Brush, Newburg, N. Y. Hat-felting machine.	363,329	May 17	1776	465	39	821
Grant, James C., and J. C. Brush, Newburg, N. Y. Hat-felting machine	361,586	Apr. 19	1703	440	39	333
Grant, John. (See Watson, Richard, assignor.)						
Grant, John, Chicago, Ill. Shifting eccentric	363,629	May 24	2219	575	39	915
Grant, John, Omaha, Nebr. Conductor for electric wires	371,681	Oct. 18	1339	346	41	280
Grant, John A., Boston, Mass., assignor to J. W. Page, Brooklyn, N. Y. Combined halter and hitching-strap	371,137	Oct. 4	574	147	41	114
Grant, John J., assignor to American Buttonhole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Frame or rim for drawers or boxes.	369,519	Sept. 6	279	77	40	1087
Grant, Jott, Boston, Mass. Napkin-holder	368,944	Aug. 30	2319	616	40	928
Grant, Lewis J., Lamont, Mich. Saw-gummer	370,536	Sept. 27	1779	475	40	1390
Grant, William A., Houston, Tex. Apparatus for making soap	370,330	Sept. 20	1458	392	40	1325
Grant, William W., Athens, Tenn. Dental engine	363,291	May 17	1721	451	39	811
Grapes, Thomas, Worthington, Iowa. Hay-loader	368,203	Aug. 16	1254	{ 334 335 }	{ 40 }	705
Graphite Lubricating Company. (See Smalley, William W., assignor.)						
Grassler, William F., assignor of one-half to W. G. Elliott, Williamsport, Pa. Safety railway-car	367,000	July 19	1699	457	40	337
Grassler, William F., assignor of one-half to W. G. Elliott, Williamsport, Pa. Pipe-coupling for heating railway-cars.	374,059	Nov. 29	2665	716	41	1007
Grassmann, Peter, and M. B. Cheek, Aurora, Ind. Feed-water heater	368,147	Aug. 9	1169	312	40	681
Gratton, Louis, Amity, N. Y. Fence-post	370,941	Oct. 4	302	74	41	60
Gratz, Lewis C. (See Davis, Nathan H., assignor.)						
Grätzel, Richard, assignor to Aluminium und Magnesium Fabrik Patent Grätzel, Bremen, Germany. Production of aluminium and aluminium bronze	362,441	May 3	515	.....	39	574
Graumlich, Solomon M., Duvall Station, Ohio. Force-feed for grain-elevators	366,476	July 12	971	264	40	193
Graves, Alfred C., Lebanon, Ky. Bedclothes-fastener	372,748	Nov. 8	684	189	41	609
Graves, Frank B. (See Currier, Herbert L., assignor.)						
Graves, Fred B., assignor to Electric Fire Apparatus Company, Rochester, N. Y. Electrical apparatus for operating valves in mains	358,775	Mar. 1	516	126	38	999
Graves, Gilbert S. and R. W., Buffalo, N. Y. Apparatus for separating germs from corn.	357,708	Feb. 15	1411	371	38	702
Graves, Gilbert S. and R. W., Buffalo, N. Y. Manufacturing starch	362,502	May 10	611	173	39	596
Graves, Harry C., <i>et al.</i> (See Billingslea, Asa A., assignor.)						
Graves, Norman K., Rome, assignor of one-half to J. H. Frost, Lansingburg, N. Y. Show-rack for brushes	371,499	Oct. 11	1080	281	41	220
Graves, Ransom W., Champlain, N. Y. Cover-fastening device	368,886	Aug. 23	2225	592	40	901
Graves, Roger W. (See Graves, Gilbert S. and R. W.)						
Graves, Thomas C., assignor of one-half to C. H. House, Ashley, Ill. Fruit-conveyer	366,721	July 19	1343	359	40	271
Gray, Alvin, <i>et al.</i> (See Cushman, Adoniram J., assignor.)						
Gray, Clinton, Elmira, assignor of one-third to G. J. Shults, Avoca, N. Y. Folding portable tent	361,505	Apr. 19	1584	411	39	311
Gray, Edwin L., and G. D. Wright, assignors to Porter Manufacturing Company, Burlington, Vt. Extension-screen	355,605	Jan. 4	399	108	38	80
Gray, Frank. (See Gray, William S., assignor.)						
Gray, Frank M., Milwaukee, Wis. Mechanical bob	371,575	Oct. 18	1189	{ 309 310 }	{ 41 }	249

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Gray, George F., San Francisco, Cal. Jointer for artificial-stone work.....	361,692	Apr. 26	1869	485	39	373
Gray, George L., Chicago, Ill., assignor to New Home Sewing Machine Company, Orange, Mass. Receptacle for sewing-machine tables	357,123	Feb. 1	560	145	38	525
Gray, George L., Chicago, Ill., assignor to New Home Sewing Machine Company, Orange, Mass. Hook-and-eye hinge for sewing-machine tops	367,616	Aug. 2	375	105	40	523
Gray, Henry F., Columbus, Ohio. Stretcher-frame.....	371,933	Oct. 25	1719	444	41	365
Gray, Henry F., Columbus, Ohio. Stretcher-frame.....	371,934	Oct. 25	1720	445	41	365
Gray, Henry P., Paterson, N. J. Bung-faucet and connection.....	373,826	Nov. 29	2337	627	41	943
Gray, Herbert, assignor of one-half to F. Rohnert, Detroit, Mich. Button	374,533	Dec. 6	522	136	41	1147
Gray, Herbert, assignor of one-half to F. Rohnert, Detroit, Mich. Self-attaching button.....	375,065	Dec. 20	1307	341	41	1315
Gray, James D. (See Gray and Chastain.)						
Gray, Jerome T., North Springfield, Mo. Preserving eggs.....	358,656	Mar. 1	353	.....	38	969
Gray, John, Santa Fé, N. Mex. Ter. Liniment	374,958	Dec. 20	1157	.....	41	1289
Gray, John L., assignor of two-thirds to J. D. Lewis and W. L. Sims, New Orleans, La. Refrigerator	370,469	Sept. 27	1678	447	40	1373
Gray, John T., Gray, Dak. Ter. Heel for boots or shoes	358,194	Feb. 22	2115	558	38	837
Gray, John T., Gray, Dak. Ter. Boot-top and manufacture of the same	369,240	Aug. 30	2709	720	40	1005
Gray, John W., Hartford, Conn. Hose-nozzle.....	359,602	Mar. 22	1747	445	38	1256
Gray, Joshua, Medford, Mass. Dynamo-electric machine.....	374,959	Dec. 20	1157	303	41	1289
Gray, Nelson A. (See Waterman and Gray.)						
Gray, Robert D., and H. E. Stammers, New York, N. Y. Photographic camera	362,271	May 3	283	79	39	528
Gray, Silas W. (See Arthur and Gray.)						
Gray, Stephen B., Jacksonville, Ill. Bustle.....	359,860	Mar. 22	2147	542	38	1328
Gray, Walter G., assignor of one-half to W. T. Bracey, Pleasant View, Tenn. Cider-mill.....	366,165	July 5	560	151	40	105
Gray, William, assignor to E. Cady, Hartford, Conn. Body-protector	374,150	Nov. 29	2792	750	41	1031
Gray, William H., assignor to Glen Cove Machine Company, (limited,) Green Point, N. Y. Wood-planing machine	358,972	Mar. 8	818	207	38	1060
Gray, William H., assignor to Glen Cove Machine Company, (limited,) Green Point, Brooklyn, N. Y. Chip-breaker for wood-planing machines.....	362,619	May 10	780	214	39	625
Gray, William H., assignor to Glen Cove Machine Company, (limited,) Brooklyn, N. Y. Gearing for wood-planer feeds.....	360,150	Mar. 29	2628	665	38	1422
Gray, William H., assignor to Glen Cove Machine Company, (limited,) Brooklyn, N. Y. Presser-bar for wood planing or molding machines	361,506	Apr. 19	1586	411	39	312
Gray, William H. and J. D., West Falls, and J. B. Chastain, Baltimore, Md., assignors of a part to J. S. Lawrence, O. W. Bennett, Washington, D. C., and T. W. Tongue, Baltimore, Md. Fire-escape.....	374,596	Dec. 13	617	161	41	1175
Gray, William M. (See Lee, Robert E., assignor.)						
Gray, William S., assignor of two-thirds to F. Gray, New York, N. Y. Means for the extinguishment of fires.....	357,987	Feb. 15	1805	474	38	775
Graybill, Samuel W., Lancaster, Pa. Link.....	371,935	Oct. 25	1721	445	41	365
Graydon, James W., assignor of one-half to G. S. Prindle and P. G. Russell, Washington, D. C. Percussion firing device for torpedoes	356,067	Jan. 11	1102	292	38	222
Great Falls Spool and Bobbin Company. (See Cumnock and Skillings, assignors.)						
Greathead, James H., Westminster, county of Middlesex, England. Apparatus for excavating tunnels, subways, and shafts.....	360,959	Apr. 12	809	208	39	156
Greibenstein, Charles H., New York, N. Y. Machine for casting candies	364,342	June 7	181	50, 51	39	1123
Grece, Edward S. (See Stoddard, Elliott J., assignor.)						
Greek, John, Evansville, Ind. Cavity drill or reamer.....	372,463	Nov. 1	267	74	41	521
Green, Alexander, assignor of one-half to J. A. Simmons, Delta, Ohio. Washing-machine.....	356,832	Feb. 1	119	33	38	445
Green, Charles M., and C. Brewer, Toronto, Ontario, Canada. Vehicle-hub band.....	368,204	Aug. 16	1256	335	40	705
Green, Charles W., Brooklyn, N. Y. Toll-gate.....	362,954	May 17	1265	335	39	722
Green, Charles W., Brooklyn, N. Y. Toll-gate.....	362,955	May 17	1269	336	39	723
Green, Cyrel W., West Rutland, Vt. Stone-saw gang and sand-feed combined	371,313	Oct. 11	821	{ 209 210 }	{ 41 41 }	168
Green, George F., Kalamazoo, Mich. Photographic shutter.....	362,211	May 3	211	62	39	514
Green, George W., London, England. Oar or scull blade.....	358,034	Feb. 22	1867	494	38	792
Green, Isaac. (See Morse, Ancil B., assignor.)						
Green, John, Fitchburg, Mass. Railway-frog.....	364,102	May 31	2890	749	39	1049
Green, Joseph D., Marshall, Mo. Rail-joint.....	360,681	Apr. 5	405	103	39	76
Green, Joseph W., Jr. (See Moore and Green.)						
Green, Joseph W., Jr., and G. C. Moore, East Hampton, Mass. Elastic fabric.....	360,431	Apr. 5	52	13	39	11
Green, Joseph W., Jr., and G. C. Moore, East Hampton, Mass. Elastic fabric.....	360,432	Apr. 5	53	13	39	11
Green, Milton C., Kansas City, Mo., assignor to himself and L. H. Osborn, Garnett, Kans. Air-heating stove	374,896	Dec. 13	1043	273	41	1259
Green, Nelson. (See Young and Green.)						
Green, Nelson, Waterford, Ontario, Canada. Metal shingle.....	364,507	June 7	424	115	39	1168
Green, Newton J. (See Green, William R. and N. J.)						
Green, Philip E., et al. (See Fox, William H., assignor.)						
Green, Raphael S., assignor of one-half to R. M. Hunter, Philadelphia, Pa. Binding garments.....	364,586	June 7	539	145	39	1190
Green, Robert G. (See Wells, Elisha, assignor.)						
Green, Robert W., et al. (See Fox, William H., assignor.)						
Green, Samuel, New York, N. Y. Chenille ornament.....	358,606	Mar. 1	289	69	38	957
Green, Samuel F., Salamanca, N. Y. Car-coupling.....	357,957	Feb. 15	1756	458	38	766
Green, William. (See Aldrich, George W., assignor.)						
Green, William H., Kingsbury, Tex. Plow.....	366,090	July 5	461	125	40	87
Green, William R. and N. J., Kingston, Tex. Baling-press.....	362,272	May 3	286	80	39	529
Green, William S., Ellsworth, Kans. Expansion well-drill.....	369,403	Sept. 6	132	38	40	1057
Green, William W., assignor to Spiral Conveyer Company, Chicago, Ill. Making spiral conveyers.....	361,998	Apr. 26	2322	{ 605 606 }	{ 39 39 }	453
Green, William W., and J. Murison, Chicago, Ill. Railway-car.....	372,615	Nov. 1	485	131	41	561
Greenaway, Alfred, Louisville, Ky. Grate.....	375,066	Dec. 20	1308	342	41	1315
Greenberg, Jacob, Cincinnati, Ohio. Awning.....	356,833	Feb. 1	121	33	38	445
Greene, Albert S., Adams, N. Y. Hydraulic manipulator and indicator.....	375,674	Dec. 27	2145	557	41	1484
Greene, Charles A., assignor of one-half to W. E. Bidwell, Stockton, Cal. Mowing-machine.....	373,524	Nov. 22	1908	506	41	853
Greene, Edward E., New York, N. Y. Conduit for electric conductors	374,738	Dec. 13	811	213	41	1215
Greene, Forrest D., et al. (See Leighton, Carleton F., assignor.)						
Greene, George W., Abington, and L. P. Smith, Smithfield, Ind. Type-writing machine.....	356,245	Jan. 18	1356	358	38	275
Greene, James G., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Button-hole sewing-machine	360,433	Apr. 5	54	13, 14	39	12
Greene, James G., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Button-hole sewing-machine.....	360,434	Apr. 5	56	14, 15	39	12
Greene, James G., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Looping mechanism for sewing-machines.....	360,435	Apr. 5	58	15	39	13

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Greene, James G., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Driving mechanism for sewing-machines.....	365,918	July 5	229	61	40	44
Greene, John W., assignor of one-half to J. T. Thatcher, Oregon, Mo. Bottom strip or molding for window-shades, &c.....	371,192	Oct. 11	653	167	41	136
Greene, Joseph S. (See Newman and Greene.)						
Greenfield & Co. (See Greenfield, Edwin T., assignor.)						
Greenfield, Edwin T., assignor to himself and S. Bergmann, New York, N. Y. Safety-circuit for electric lights.....	355,446	Jan. 4	197	53	38	40
Greenfield, Edwin T., assignor to Greenfield & Co., New York, N. Y. Insulator.....	369,447	Sept. 6	189	54	40	1068
Greenland, Frank, Brooklyn, N. Y. Mat. (Reissue).....	10,889	Dec. 20	1662	436	41	1386
Greenleaf, George A., Newton, Kans. Transfer of embroidery-patterns.....	364,918	June 14	1029	269	39	1288
Greenlee, Arthur C., Fergus Falls, Minn. Dental plugger.....	363,630	May 24	2221	575	39	916
Greenlee, Samuel A., Clarksville, Pa. Feed-dealer's calculated price-list.....	357,663	Feb. 15	1347	355	38	690
Greenman, Harvey H., Cortland, N. Y. Door.....	372,066	Oct. 25	1916	494	41	400
Greenough, John J., Syracuse, N. Y. Device for conveying motion.....	357,593	Feb. 15	1245	327	38	672
Greenough, John J., Syracuse, N. Y. Universal-joint gearing.....	357,594	Feb. 15	1246	327	38	673
Greenwood, George, Dover, N. H., assignor of one-half to M. Joubert, Lawrence, Mass. Car-coupling.....	371,682	Oct. 18	1340	347	41	280
Greenwood, George D. (See Register and Greenwood.)						
Greenwood, John, Rochester, N. Y. Machine for crozing and chamfering staves.....	373,736	Nov. 22	2198	588	41	910
Greenwood, John T., Jr., Beloit, Wis. Fire-extinguisher.....	368,085	Aug. 9	1085	289	40	665
Greenwood, Joseph, and W. Hill, Jr., Limestone, N. Y. Windmill attachment.....	356,246	Jan. 18	1358	359	38	275
Greenwood, William H., and F. Farrar, Bradford, county of York, England. Appliance for preventing unequal wear of leathers of drawing-off rollers of combing-machines.....	373,890	Nov. 29	2422	651	41	960
Greer, Fred A., Rushville, Ill. Draft-equalizer.....	367,099	July 26	1849	499	40	374
Greer, John N., et al. (See Witherell, Loren R., assignor.)						
Greer, John W., Austin, Tex. Money changer and counter.....	362,738	May 10	950	259	39	658
Greer, John W., Austin, assignor of one-half to W. H. Tobin, Travis County, Tex. Fare-box.....	356,465	Jan. 25	1671	437	38	342
Greer, John W., assignor of one-half to W. H. Tobin, Austin, Tex. Car-brake.....	360,803	Apr. 5	572	149	39	108
Gregg & Co. (See Clapp, Charles, assignor.)						
Gregg & Co. (See La Dow, John, assignor.)						
Gregg, Howard, assignor of one-half to Heipershausen Brothers, East New York, N. Y. Preventing incrustation of steam-boilers.....	361,281	Apr. 19	1287	330	39	256
Gregg, Mahlon, Rochester, N. Y. Propelling-wheel for steamboats.....	360,521	Apr. 5	189	46	39	37
Gregg, Mahlon, Rochester, N. Y. Blast or exhaust fan.....	370,389	Sept. 27	1554	416	40	1350
Gregg, Myron E., Washington, D. C. Magazine-gun.....	374,597	Dec. 13	619	{ 161 162 }	{ 41 41 }	1175
Gregory, Brinton, et al. (See Willis, Edward C., assignor.)						
Gregory, Charles, Council Bluffs, Iowa. Tuyere.....	363,819	May 31	2489	646	39	973
Gregory, Charles O., Centreville, Mich. Gig-tree and attachments.....	369,707	Sept. 13	546	150	40	1148
Gregory, David D. (See Gillette, Thurber J., assignor.)						
Gregory, David D., Syracuse, N. Y. Apparatus for punching checks.....	355,764	Jan. 11	646	169	38	136
Gregory, Fred L., Niagara Falls, N. Y. Lathe-chuck.....	374,405	Dec. 6	330	86, 87	41	1109
Gregory, George H., Brooklyn, N. Y. Gas-stove.....	355,393	Jan. 4	133	36	38	28
Gregory, George H., Brooklyn, N. Y. Gas-burner.....	363,892	May 31	2587	672	39	991
Gregory, James, Moseley, near Birmingham, England. Hair-curler.....	374,246	Dec. 6	108	27	41	1067
Gregory, James, Bogansville, assignor to C. L. Allen, S. M. Rice, Jr., and L. P. Murphy, Union Township, S. C. Motor.....	361,937	Apr. 26	2217	576	39	436
Gregory & O'Brien. (See Willis, Edward C., assignor.)						
Gregory, William C., New Antioch, Ohio. Device for compressing shocks of corn.....	365,742	June 28	2267	590	39	1541
Greider, James K. (See Kautz, Henry, assignor.)						
Greig, John, Santa Clara, Cal. Stave-jointing attachment for bed-planers.....	375,153	Dec. 20	1436	376	41	1340
Greisser, William, Chicago, Ill. Mash-tub.....	368,887	Aug. 23	2226	{ 592 593 }	{ 40 40 }	901
Greppin, Edward, assignor to J. R. Geigy, Basle, Switzerland. Production of blue coloring-matter.....	368,716	Aug. 23	1999	.....	40	856
Gres, Eucher, assignor of one-half to S. Israel, Tombstone, Ariz. Ter. Spring-roller.....	374,060	Nov. 29	2667	717	41	1008
Gresham, Austin L., Kingsland, Ark. Tobacco-box.....	373,233	Nov. 15	1453	383	41	756
Grether, Ernest F., and C. Mosher, South Bend, Ind. Treating raw hides.....	361,999	Apr. 26	2324	.....	39	453
Gribben, John, Pittsburg, assignor of one-half to F. H. Clark, Allegheny County, Pa. Taper-tap.....	375,284	Dec. 20	1599	420	41	1373
Gribble, John L., Macomb, Ill. Sectional boat.....	362,503	May 10	613	173	39	596
Grider, John, assignor of one-half to G. Chesnutwood and T. N. Moore, Stockton, Cal. Grain-separator.....	375,486	Dec. 27	1872	489	41	1435
Grier, W. W., et al. (See Knapp, Jacob, assignor.)						
Grier, William W., Hulton, Pa. Body-brace for vehicles.....	356,935	Feb. 1	264	73	38	470
Grier, William W., Hulton, Pa. Clip for vehicle-gears.....	358,973	Mar. 8	821	208	38	1061
Grier, William W., Hulton, Pa. Fifth-wheel.....	362,504	May 10	613	173	39	597
Griesser, William, Chicago, Ill. Steep-tank valve.....	373,773	Nov. 22	2255	605	41	919
Griest, John M., Chicago, Ill. Button-hole attachment.....	362,442	May 3	516	{ 144 145 }	{ 39 39 }	574
Griffes, James W., Hanford, Cal. Condition powder.....	364,408	June 7	282	.....	39	1142
Griffin, Caleb H., Boston, Mass. Dress-form.....	365,302	June 21	1595	416	39	1401
Griffin, Edward B., Freedom, Pa. Lifting-jack.....	370,253	Sept. 20	1352	362	40	1304
Griffin, Edwin C., Brooklyn, N. Y. Ore-pulverizer.....	360,682	Apr. 5	406	{ 103 104 }	{ 39 39 }	76
Griffin, Ellwood, New York, N. Y. Fishing-reel attachment.....	357,988	Feb. 15	1807	474	38	776
Griffin, Heber C., Franklin Falls, N. H. Permutation-lock.....	356,068	Jan. 11	1103	292	38	222
Griffin, Henry, Danbury, Conn. Machine for pouncing hats.....	369,520	Sept. 6	280	78	40	1087
Griffin, James F. (See Staats, William H., assignor.)						
Griffin, James K., Brooklyn, N. Y. Horse-power.....	365,436	June 28	1803	469	39	1452
Griffin, John W., Buffalo, N. Y. Ventilator for soil-pipes.....	358,262	Feb. 22	2199	579	38	853
Griffin, Thomas A., Chicago, Ill., assignor to Ajax Forge Company, of Illinois. Frog.....	360,683	Apr. 5	407	104	39	76
Griffing, Abner A. (See Bradford, Charles K., assignor.)						
Griffing, Charles E. (See Ashburn, J. Wilson, assignor.)						
Griffing, Charles E., and J. W. Ashborn; said Ashborn assignor of one-half his right to D. M. Benedict, Danbury, Conn. Door spring and check.....	370,468	Sept. 27	1676	446	40	1373
Griffith, Edward L. (See Wintrobe and Griffith.)						
Griffith, Raymond H. (See Mauk, William G., assignor.)						
Griffith, Richard W., assignor of one-half to W. Colton, Baltimore, Md. Burial-case.....	358,347	Feb. 22	2313	612	38	875
Griffith, Walter A. (See Crosswell, Herbert E., assignor.)						
Griffith, Watkin M., et al. (See Elliott, Charles W., assignor.)						
Griffiths, Howard B., Philadelphia, Pa. Automatic indicator for letter-boxes.....	368,918	Aug. 23	2276	605	40	911

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Griffiths, Walter B., New York, N. Y. Device for laying off geometric figures	364,508	June 7	425	115	39	1168
Griggs, A. Irving, Westford, N. Y. Stove-board	359,353	Mar. 15	1330	345	38	1162
Griggs, George B., Rush Centre, Kans. Harness-saddle	361,282	Apr. 19	1288	330	39	256
Grigsby, Lemuel Z., Minden, La. Power-wheel	358,263	Feb. 22	2200	579	38	853
Grimble, George, Gilboa, Ind. Divider	368,086	Aug. 9	1086	289	40	666
Grimes, Charles L., and F. H. Williams, assignors to Williams, White & Co., Moline, Ill. Reaping and mowing machine	357,527	Feb. 8	1131	296	38	641
Grimes, Cornelius H., Gratis, Ohio. Lightning-rod	356,531	Jan. 25	1762	459	38	359
Grimm & Burris. (See Grimm, Gerhard E., assignor.)						
Grimm, Fred., Comanche, Tex. Plow	357,279	Feb. 8	782	203	38	575
Grimm, Gerhard E., Camden, N. J., assignor to Grimm & Burris, Philadelphia, Pa. Paste-board mailing-tube	363,061	May 17	1414	374	39	751
Grimm, Paul H., assignor to Glen Cove Manufacturing Company, Glen Cove, N. Y. Cylinder for separating liquids from solids by pressure	358,974	Mar. 8	822	208	38	1061
Grimm, Paul H., assignor to Glen Cove Manufacturing Company, Glen Cove, N. Y. Loading apparatus	363,062	May 17	1415	374	39	751
Grimmesey, Orris R., <i>et al.</i> (See Winfield, William C., assignor.)						
Grinde, Hans S. (See Knudson, Hans, assignor.)						
Griner, Micheal A., Tallyrand, Iowa. Attachment for corn-planters	372,671	Nov. 8	577	157	41	589
Grinnell, Amos L., Campbell, Iowa. Dumping-platform	360,436	Apr. 5	60	15, 16	39	13
Grinnell, Amos L., Campbell, Iowa. Mortising-machine	365,065	June 21	1257	331	39	1339
Grinnell, Frederick, Providence, R. I. Duplex valve	372,218	Oct. 25	2149	551	41	443
Grinnell, Frederick, Providence, R. I. Automatic fire-extinguishing apparatus	372,219	Oct. 25	2150	551	41	443
Grinnell, Frederick, Providence, R. I. Automatic fire-extinguishing apparatus	372,220	Oct. 25	2151	552	41	443
Griscom, William W., Haverford College, Pa. Electric motor	356,834	Feb. 1	123	33, 34	38	446
Griscom, William W., Philadelphia, Pa., assignor to Electrical Accumulator Company. Secondary battery	359,072	Mar. 8	949	.....	38	1085
Griscom, William W., Haverford College, Pa., assignor to Electrical Accumulator Company, of New York. Automatic circuit-closer for secondary batteries	374,673	Dec. 13	722	190	41	1197
Grisi, August, Hoboken, N. J. Bottle and label protector	372,464	Nov. 1	269	74	41	521
Griswold, Catharine A., New York, N. Y. Corset	358,348	Feb. 22	2314	613	38	876
Griswold, Catharine A., New York, N. Y. Corset	358,349	Feb. 22	2315	613	38	876
Griswold, Eugene, assignor of one-half to F. Griswold, Dodge Centre, Minn. Game-register	359,562	Mar. 15	1663	424	38	1224
Griswold, Frank. (See Griswold, Eugene, assignor.)						
Griswold, James D., Brooklyn, assignor to Ansonia Brass and Copper Company and W. A. Hull, New York, N. Y. Suspension device for lamps, &c.	363,063	May 17	1417	375	39	751
Griswold, James D., Brooklyn, assignor to Ansonia Brass and Copper Company and W. A. Hull, New York, N. Y. Suspension device for lamps and other articles	365,470	June 28	1852	481	39	1462
Griswold, J. Wool, Troy, N. Y. Manufacture of fence-posts	374,299	Dec. 6	183	48	41	1081
Griswold, John N. (See Damon and Griswold.)						
Griswold, Joseph M., Brooklyn, Mich. Fastening device for grain-doors of freight-cars	375,447	Dec. 27	1824	477	41	1425
Griswold, Lewis F., assignor to C. Parker Company, Meriden, Conn. Suspension device for lamps, &c.	372,260	Oct. 25	2212	{ 566 567 }	{ 41 41 }	456
Griswold, Matthew. (See Hough, Robert B., assignor.)						
Griswold, Merritt W., New York, N. Y. Water-closet seat	368,717	Aug. 23	2000	529	40	857
Griswold, Robert, Woody, Kans. Thatched cover for stacks	358,195	Feb. 22	2116	558	38	837
Griswold, Robert, Woody, Kans. Sectional thatch	372,465	Nov. 1	270	74	41	522
Groesbeck, Herman J., <i>et al.</i> (See Perry, Nelson W., assignor.)						
Grollmund, Moritz, Fergus Falls, Minn. Grain cleaning and separating mill	373,066	Nov. 15	1186	317	41	708
Gromme, John J. (See Kissner and Gromme.)						
Gronberg, Charles. (See Dixey, Gronberg, and Hyden.)						
Groom, Patrick W., assignor to St. Louis Shovel Company, St. Louis, Mo. Shovel	359,967	Mar. 22	2314	582	38	1359
Gros, George, Waterbury, Conn. Necktie-holder	356,636	Jan. 25	1924	504	38	390
Gros, Georges, Bordeaux, and L. G. Poure, Paris, France. Apparatus for attaching metallic seals	371,138	Oct. 4	575	147	41	114
Grose, Joseph E., Zela, W. Va. Hitching device for vehicles	372,311	Nov. 1	40	13	41	479
Grosjean, James E., Fredericksburg, Ohio. Funeral-advertising device or annunciator	361,760	Apr. 26	1961	511	39	389
Grosjean, James E., Fredericksburg, Ohio. Pall-bearer's badge	373,827	Nov. 29	2338	627	41	944
Gross, Henry, assignor to Chicago Safe and Lock Company, Chicago, Ill. Frame-work for safety-deposit and similar boxes	361,408	Apr. 19	1462	377	39	287
Gross, Henry, assignor to Chicago Safe and Lock Company, Chicago, Ill. Bank-vault	370,470	Sept. 27	1678	447	40	1373
Gross, Henry, assignor to Chicago Safe and Lock Company, Chicago, Ill. Bank-vault	370,471	Sept. 27	1683	447	40	1374
Gross, Henry, assignor to Chicago Safe and Lock Company, Chicago, Ill. Operating mechanism for the doors of safes and vaults	370,472	Sept. 27	1685	448	40	1374
Gross, Henry W. (See Moyer, Allen G., assignor.)						
Gross, John. (See Tait and Gross.)						
Gross, John F., Canton, Ohio. Vehicle-spring. (Reissue)	10,836	May 24	2439	632	39	958
Gross, John F., assignor of one-half to P. S. Sowers, Canton, Ohio. Vehicle-spring	360,804	Apr. 5	573	149	39	108
Gross, John F., assignor of one-half to P. S. Sowers, Canton, Ohio. Dash-board	371,262	Oct. 11	750	192	41	155
Gross, Milton H., York, Pa. Electrical induction apparatus	361,587	Apr. 19	1705	440	39	333
Gross, Rudolph. (See Wessell, Nickel, and Gross.)						
Gross, Thomas J., Maple, Mo. Gate	362,273	May 3	288	80	39	529
Grossman, George, Lancaster, Pa. Stock-car	366,091	July 5	462	125	40	87
Grossman, George, Lancaster, Pa. Faucet	370,780	Oct. 4	45	11	41	11
Grotholtman, Henry A., Fort Wayne, Ind. Bean-cutter	365,516	June 28	1928	502	39	1478
Grout, Charles P., New York, N. Y. Tube-drawing tool	355,606	Jan. 4	400	109	38	80
Grout, William L., and E. L. Bowers, Orange, Mass. Mechanical movement	373,525	Nov. 22	1909	506	41	853
Grove, Alfred H., <i>et al.</i> (See Wilhelm, Jacob, assignor.)						
Grove, Jacob H. (See Leightham, Joseph, assignor.)						
Grove, Richard, North Lima, Ohio. Wash-board	360,384	Mar. 29	2969	752	38	1485
Grove, Richard, North Lima, Ohio. Curry-comb	364,103	May 31	2891	750	39	1050
Grove, Winfield S., Philadelphia, Pa. Handle for children's carriages	358,392	Feb. 22	2375	632	38	887
Grover, Eugene M., Syracuse, N. Y. Lock-up for printers' galleys	356,532	Jan. 25	1763	459	38	359
Grover, Stillman R., assignor to W. H. Wilmarth & Co., Attleborough, Mass. Button	360,684	Apr. 5	408	105	39	77
Groves, Frederick S., and A. B. Wyckoff, Philadelphia, Pa. Car-window screen	363,384	May 24	1847	486	39	844
Groves, James. (See Kelly and Groves.)						
Groves, Thomas J. (See Nuebling, John, assignor.)						
Grovesteen, Milton W., New York, N. Y. Apparatus for controlling low pressures	359,673	Mar. 22	1839	{ 467 468 }	{ 38 38 }	1273
Grows, John W., New York, N. Y. Float-trap for wash-basins, &c.	372,312	Nov. 1	42	13	41	479
Grube, Charles H. (See Zerrenner, Adolph, assignor.)						
Grube, Johannes, New York, N. Y. Extension-table	355,817	Jan. 11	730	{ 190 191 }	{ 38 38 }	150

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Grube, John A., Clinton County, Ill. Device for placing fusible plugs in boilers	358,657	Mar. 1	353	84	38	969
Gruber, John P., Jersey City, N. J. Bung, bush, and vent.	367,391	Aug. 2	49	13	40	460
Gruen, Dietrich, Columbus, Ohio. Watch dust-band	361,625	Apr. 19	1769	457	39	347
Gruen, Dietrich, assignor to Columbus Watch Company, Columbus, Ohio. Watch	372,261	Oct. 25	2216	567	41	456
Gruhl, Bernhard, Dresden, Saxony, Germany. Circular shears for cutting shells and tubes. Gruhn, Eduard. (See Jahn, Heinrich, assignor.)	374,151	Nov. 29	2793	750	41	1031
Grumbach, Isaac, Galveston, Tex. Device for controlling runaway horses	368,391	Aug. 16	1517	404	40	757
Grummann, Albert U., assignor of one-half to J. Wagner, Indianapolis, Ind. Elevator-gate	366,625	July 12	1201	321	40	237
Grummann, Albert U., assignor to J. Wagner, Indianapolis, Ind. Barrel-skid	366,626	July 12	1202	321	40	237
Grummon, Robert S., Newark, N. J. Carpet-fastener	374,534	Dec. 6	523	137	41	1147
Grunder, Henry. (See Kroner, Barnard H., assignor.)						
Grüneberg, Hermann, Cologne, and E. Blum, Berlin, Germany, assignors of one-third to H. Simon, Manchester, England. Apparatus for distilling ammonia	358,196	Feb. 22	2116	{ 558 } { 559 }	{ 38 }	838
Gruson, Hermann, Buckau, near Magdeburg, Prussia, Germany. Gunpowder-press	357,124	Feb. 1	563	{ 145 } { 146 }	{ 38 }	525
Gruson, Hermann, Buckau, near Magdeburg, Prussia, Germany. Hydraulic press	357,125	Feb. 1	568	{ 146 } { 147 }	{ 38 }	526
Gruson, Hermann, Buckau, near Magdeburg, Prussia, Germany. Gun-carriage	366,951	July 19	1642	440	40	327
Gruson, Hermann, Buckau, near Magdeburg, Prussia, Germany. Gun-carriage	367,617	Aug. 2	376	106	40	523
Grusonwerk. (See Röstel, Carl, assignor.)						
Gubelmann, William S., assignor of one-half to J. Hunt, Philadelphia, Pa. Cuff-retainer ..	362,000	Apr. 26	2325	606	39	454
Gudebrod, Fred C., New York, N. Y. Cigar-perforator	365,303	June 21	1596	416	39	1401
Güdel, Arnold, and A. Chopard, Biel, Berne, Switzerland; said Chopard assignor to said Güdel. Engraving-machine for multiple combinations	375,705	Dec. 27	2188	{ 569 } { 570 }	{ 41 }	1492
Guenette, Cyprien, Clyde, Kans. Listed-corn cultivator	364,169	May 31	2990	777	39	1068
Guenther, L. C., et al. (See Koehler, William H., assignor.)						
Guerber, Frederick S., Allentown, Pa. Railway switch and signal apparatus	362,580	May 10	717	200	39	614
Guerber, Frederick S., Allentown, Pa. Interlocking apparatus for switches, signals, &c. .	362,889	May 10	1166	312	39	697
Guerber, Frederick S., Allentown, Pa. Safety appliance for railways	365,001	June 14	1150	302	39	1309
Guerber, Frederick S., Allentown, Pa. Safety appliance for railways	365,002	June 14	1152	302	39	1310
Guerber, Frederick S., Allentown, Pa. Safety appliance for railways	365,003	June 14	1155	{ 302 } { 303 }	{ 39 }	1310
Guest, John H., Brooklyn, N. Y. Fire-telegraph	358,393	Feb. 22	2375	632	38	887
Guest, John H., Brooklyn, assignor of one-half to T. F. Thomas, New York, N. Y. Check-register	373,397	Nov. 15	1691	{ 448 } { 449 } { 450 }	{ 41 }	800
Guest, Joseph, Tipton, county of Stafford, England. Rolling plates or sheets	359,149	Mar. 8	1047	{ 272 } { 273 }	{ 38 }	1104
Guibert, Antoine. (See Dosme-Chatain and Guibert.)						
Guide Manufacturing Company. (See Millington, Harry P., assignor.)						
Guilbert, J. Murray, assignor to W. H. Hart, Jr., Philadelphia, Pa. Neck-wear tip	359,209	Mar. 8	1127	293	38	1118
Guild, Frank D., Lebanon, Mo. Door-check	361,693	Apr. 26	1870	485	39	373
Guild, Henry G., New York, N. Y. Hair-crimper	364,170	May 31	2991	777	39	1068
Guild, Henry G., New York, N. Y. Manufacture of combs	370,473	Sept. 27	1687	448	40	1374
Guild, William H., et al. (See Miller, James P., assignor.)						
Guiley, Augustus H. R., South Easton, Pa. Hat-hook	366,477	July 12	973	264	40	193
Guiley, Jacob H., East Saginaw, Mich. Pipe-wrench	370,752	Sept. 27	2104	558	40	1451
Guilkey, Charles S., Catlettsburg, Ky. Cultivator	359,535	Mar. 15	1613	413	38	1216
Guillaume, Henri, Washington, D. C. Game	375,419	Dec. 27	1782	466	41	1417
Guillaume, Franz C., Cologne, Germany. Wire mat	375,321	Dec. 20	1654	433	41	1383
Guinand, Oliver U., Excelsior Springs, Mo. Snow-plow	364,818	June 14	888	{ 233 } { 234 }	{ 39 }	1261
Guion, Elisabeth, New York, N. Y. Medicine-spoon	358,197	Feb. 22	2119	559	38	838
Guion, Elisabeth, New York, N. Y. Dress-maker's fitting-chair	358,198	Feb. 22	2119	559	38	838
Guion, Richard L., Elmira, N. Y. Electric regulator of heating apparatus	362,212	May 3	212	62	39	514
Guion, Richard L., Elmira, N. Y. Electric thermostat	362,213	May 3	214	63	39	514
Gulick, Lizzie T., Corsicana, Tex. Blind-stop	357,381	Feb. 8	922	243	38	602
Gullen, John R., Ansonia, Conn. Stove-board	361,409	Apr. 19	1463	378	39	288
Gumaer, Adelbert G., and J. G. W. Knoll, Buffalo, N. Y. Serpentine lawn-sprinkler	374,960	Dec. 20	1158	303	41	1289
Gumbrecht, Eugen, Nackenheim, near Mentz, Germany, assignor to Wittemann Brothers, New York, N. Y. Machine for capsuling bottles	357,315	Feb. 8	831	217	38	584
Gumersell, James A. (See Noble, Jay, assignor.)						
Gumtow, H., et al. (See Gumtow, Hermann D. R., assignor.)						
Gumtow, Hermann D. R., assignor to M. Lutzner and H. Gumtow, Berlin, Germany. Jet apparatus	373,931	Nov. 29	2476	665	41	970
Gunkel, Winfield O., Terre Haute, Ind. Bale-tie	357,989	Feb. 15	1808	474	38	776
Gundersen, Tosten. (See Tellefson and Gundersen.)						
Gundorph, Ferdinand, Portland, Oreg. Fish-line reel	364,509	June 7	426	115	39	1168
Gunn, John C., et al. (See Pierce, George R., assignor.)						
Gunn, Joseph H., McLean, N. Y. Vehicle-spring	361,938	Apr. 26	2218	576	39	437
Gunn, Levi J., trustee. (See Pearce, William, assignor.) (Reissue.)						
Gunning, Mark L. (See Parker and Gunning.)						
Gunther, George A., Bath Beach, and G. L. Fowler, Brooklyn, N. Y.; said Fowler assignor to said Gunther. Transporting beer	356,714	Jan. 25	2018	530	38	408
Günther, Henry. (See Lincoff, Seff, and Günther.)						
Guntz, George, Wilkes-Barré, Pa. Molding-machine	360,011	Mar. 29	2386	{ 603 } { 604 } { 605 }	{ 38 }	1378
Guntz, George, Wilkes-Barré, Pa. Sand-molding machine	360,012	Mar. 29	2390	{ 605 } { 606 }	{ 38 }	1379
Guntz, George, Wilkes-Barré, Pa. Machine for screening and moistening molding-sand. .	368,333	Aug. 16	1444	383	40	742
Gunz, Oscar F., et al. (See Homans, Charles A., assignor.)						
Gunz, Oscar F., Rutherford Park, N. J., and A. Sueur, assignors to M. J. Paillard & Co., New York, N. Y. Music-box	355,447	Jan. 4	199	53	38	40
Gurganus, James D. (See Carson and Gurganus.)						
Gurley, Benjamin B., Minneapolis, assignor of one-half to A. G. Lewis, St. Paul, Minn. Egg-tester	358,444	Mar. 1	30	9	38	909
Gurley, Maria K., executrix. (See Gurley, William.)						
Gurley, Revere R., Washington, D. C. Distance-instrument	359,073	Mar. 8	950	242	38	1085
Gurley, W. & L. E. (See Gurley, William, assignor.)						
Gurley, William, deceased; M. K. Gurley executrix and assignor to W. & L. E. Gurley, Troy, N. Y. Telescopic hand-level	360,805	Apr. 5	574	150	39	108
Gurnee, Palmer J., Rondout, N. Y. Car-heater	367,711	Aug. 2	548	150	40	554

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Gurney, Frank A., Grand Crossing, assignor to G. G. Calkins, Chicago, Ill. Key	365,304	June 21	1598	416	39	1401
Gurney, J. Theodore, Boston, Mass. Two-wheeled vehicle	361,939	Apr. 26	2219	577	39	437
Gurney, J. Theodore, Boston, Mass. Two-wheeled vehicle	361,940	Apr. 26	2222	578	39	437
Gurney, J. Theodore, Boston, Mass. Two-wheeled vehicle	361,941	Apr. 26	2227	579	39	438
Gustafson, Axel R., Marinette, Wis. Conductor's trip-book	366,579	July 12	1133	303	40	226
Gustafson, John G., Chicago, Ill. Clamp	362,001	Apr. 26	2325	606	39	454
Gustavel, Louis G., Jr., Monticello, Ind. Hame-tug	367,712	Aug. 2	550	150	40	554
Gustin, Andrew J., Boston, Mass. Machine for straightening rails	358,116	Feb. 22	1994	{ 525 526 141 142 143 }	{ 38 38 38 38 38 }	814 1009
Guthrie, James F., Jr., Somerville, assignor of one-half to T. C. Ashley, Boston, Mass. Wrench	359,722	Mar. 22	1914	485	38	1287
Guthrie, Louis, and W. G. Baumgardner, Filer City, Mich. Combined screen and storm door	363,740	May 24	2376	617	39	945
Gutierrez, Manuel F., Altoona, Pa. Carpet-stretcher	361,283	Apr. 19	1288	330	39	256
Guy, Benjamin F., <i>et al.</i> (See Baden, Thomas E., assignor.)						
Guy, Charles B., Postville, Iowa. Saw-buck	363,741	May 24	2377	617	39	945
Guy, Waldo T. (See Sawyer and Guy.)						
Guyer, Clinton, and P. Brosious, Muncy, Pa. Weather-strip	367,755	Aug. 2	607	164	40	565
Guyot, Jules A., Geneva, Switzerland. Calendar	369,054	Aug. 30	2476	{ 657 658 }	{ 40 40 }	958
Gwinner, Lewis, Hamilton, Ohio. Caster	361,694	Apr. 26	1871	485	39	374
Haag, John, Troutville, Pa. Miner's tool for breaking down coal	367,807	Aug. 9	693	187	40	590
Haag, John C., Lansing, Mich. Picket guide and support	356,637	Jan. 25	1925	504	38	390
Haag, John C., Lansing, Mich. Machine for wiring picket fences	356,638	Jan. 25	1925	504	38	390
Haag, John C., and E. W. Evans, New York, N. Y. Tunnel for cable railways	355,448	Jan. 4	200	54	38	40
Haake, Ernst, Winona, Minn. End-gate	365,808	July 5	70	20	40	15
Haake, Ernst, Winona, Minn. Slide-block for reciprocating-saw mills	375,285	Dec. 20	1600	420	41	1373
Haaker, William. (See Moore, Daniel, assignor.)						
Haar, Henry M. (See Kress, John, assignor.)						
Haas, Abraham, Pekin, Ill. Fruit-picker	358,776	Mar. 1	518	126	38	1000
Haas, Christian, Chicago, Ill. Elevator and fire-escape	373,587	Nov. 22	1990	529	41	867
Haas, John A., Port Costa, Cal. Cartridge-crimper	363,955	May 31	2695	698	39	1010
Haas, Louis, New York, N. Y. Cigar-box	363,064	May 17	1418	375	39	752
Haase, Leo G., Harlem, Ill. Road-scraping attachment	366,952	July 19	1643	441	40	327
Haase, Leo G., Oak Park, Ill. Fence-post	368,334	Aug. 16	1445	384	40	743
Habel, Peter, Chicago, Ill. Window frame and sash	372,534	Nov. 1	365	99	41	540
Haberl, Anthony F. (See Hasler and Haberl.)						
Haberling, John L., Memphis, Tenn. Die for cutting stencil-plates	365,066	June 21	1258	331	39	1339
Habliston, John M., Jr., <i>et al.</i> (See Wilhelm, Jacob, assignor.)						
Hack, Henry S., Taunton, Mass. Roll-calendar	364,919	June 14	1030	269	39	1288
Hack, Henry S., Taunton, Mass. Roll-calendar	364,920	June 14	1030	269	39	1288
Hackale, John, <i>et al.</i> (See Hackale, William, assignor.)						
Hackale, William, assignor of two-thirds to J. P. Hillard and J. Hackale, Fall River, Mass. Spinning-mule	357,990	Feb. 15	1808	{ 474 475 }	{ 38 38 }	776
Hacker, William, trustee. (See Dolan, Edward J., assignor.)						
Hackett, Edward F. (See Hackett, Theobald M., assignor.)						
Hackett, Theobald M., assignor of one-half to E. F. Hackett, Albany, N. Y. Crane for coal-carts	370,014	Sept. 13	1012	267	40	1232
Hackey, Frederick, St. Louis, Mo. Ankle-support	363,516	May 24	2049	533	39	884
Hadden, Harvey, Peekskill, N. Y. Car-coupling	370,695	Sept. 27	2021	538	40	1436
Hadden, James, Le Roy, Mich. Saw-tooth dresser	375,623	Dec. 27	2069	538	41	1470
Haddock, Worcester, Cincinnati, Ohio. Plate or dish and adjustable cover for the same	373,801	Nov. 22	2296	615	41	927
Eaddox, Joseph O., <i>et al.</i> (See Hatfield, Patrick J., assignor.)						
Hadenfeldt, George, Ida Grove, Iowa. Horse-power	374,186	Dec. 6	32	8, 9	41	1053
Hadger, Phineas S. (See Simmons, William H., assignor.)						
Hadley, Albert. (See Hallett, William R., assignor.)						
Hadley, Dana G., Fitchburg, Mass. Saw-tooth swage	357,595	Feb. 15	1246	328	38	673
Hadley, George G., <i>et al.</i> (See Arthur, Joseph A., assignor.)						
Hadley, George W., Chicopee Falls, Mass. Gun-sight	362,956	May 17	1270	336	39	723
Hadley, John, Baltimore, Md. Clothes-drier	368,335	Aug. 16	1447	384	40	743
Hael, George W., Minneapolis, Minn. Screw-driver. (Reissue)	10,820	Mar. 22	2341	589	38	1364
Haendler, Ernst J., Pirna, Saxony, Germany. Corn-remover	370,474	Sept. 27	1688	448	40	1374
Haenlein, Paul, Frauenfeld, Thurgau, Switzerland. Apparatus for propelling vessels by air or gas	374,247	Dec. 6	109	27	41	1067
Haertel, Hermann, Breslau, Germany. Bed-pan	371,193	Oct. 11	653	167	41	137
Haessly, Abraham, Millport, Ohio. Churn	362,505	May 10	615	173	39	597
Hafely, Alfred C., New York, N. Y. Book-clasp	374,674	Dec. 13	723	190	41	1197
Haff, Le Roy B., Englewood, N. J. Pocket-corkscrew	356,936	Feb. 1	266	73	38	470
Haffner, Carl, Brooklyn, N. Y. Sheet-piling attachment for printing-presses	372,410	Nov. 1	187	52	41	505
Hafker, Henry, New York, N. Y. Fifth-wheel	363,134	May 17	1514	401	39	771
Hagan, John. (See Patterson, Lemuel, assignor.)						
Hagee, Edward W. (See Bradsby and Hagee.)						
Hagelberg, Wolff, Berlin, Germany. Support for picture-cards	359,150	Mar. 8	1048	273	38	1104
Hageman, John S., assignor of one-half to D. N. Stambaugh, Mansfield, Ohio. Bag-holder	372,411	Nov. 1	187	53	41	505
Hagemann, Otto C. (See Domeier and Hagemann.)						
Hagen, Arthur T., Rochester, N. Y. Ironing and polishing machine	366,092	July 5	464	126	40	87
Hagen, Arthur T., Rochester, N. Y. Ironing-machine	370,137	Sept. 20	1201	{ 317 318 }	{ 40 40 }	1275
Hager, James F., Charleston, W. Va. Fire-kindling apparatus	366,393	July 12	876	235	40	173
Hagerty, Daniel, Baltimore, Md. Underground cable-car conduit	372,749	Nov. 8	686	{ 189 190 }	{ 41 41 }	609
Hagerty, James S., Baltimore, Md. Car-heater	362,214	May 3	215	63, 64	39	515
Hagerty, William, Philadelphia, Pa. Bake-pan	366,478	July 12	974	264	40	194
Haggerty, James W., assignor to C. C. Morris, San Francisco, Cal. Automatic gas-pressure regulator	367,618	Aug. 2	378	{ 106 107 }	{ 40 40 }	524
Haggett, Jotham C., Dunkirk, N. Y. Steam-trap	363,631	May 24	2222	576	39	916
Hagquist, E. Gust., and S. Rydbeck, Hector, Minn. Baling-press	362,156	May 3	143	42	39	501
Hague, Charles A., Hackensack, N. J. Pumping-engine	356,119	Jan. 18	1191	{ 315 316 }	{ 38 38 }	244
Hague, James B., Napoleon, Ohio. Die for forming sectional horseshoes	364,244	June 7	61	18	39	1100
Hague, Walter, and W. B. Cookson, Pittsburg, assignors of one-third to J. Ommert, Allegheny County, Pa. Device for protecting boiler-tubes	370,865	Oct. 4	170	45	41	34

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Hague, William J. (See Mackert and Hague.)						
Hahn, Heinrich. (See Marquis and Hahn.)						
Hahn, Henry. (See Marquis and Hahn.)						
Hahn, John, St. Louis, Mo. Mechanism for operating railway gates and signals	370,188	Sept. 20	1272	{ 338 339	{ 40	1289
Hahn, John, St. Louis, Mo. Railway-switch	370,189	Sept. 20	1275	{ 339 340	{ 40	1289
Hahn, John, St. Louis, Mo. Car-brake	370,190	Sept. 20	1277	340	40	1290
Hahn, John J., Oxford, Kans. Thill-coupling	356,998	Feb. 1	356	94	38	488
Hahn, Otto. (See Runge, Arthur, assignor.)						
Haigh, Harry B., Brooklyn, assignor to Iron Clad Manufacturing Company, New York, N. Y. Milk-can cover	363,517	May 24	2049	533	39	884
Haight, Abner S., Brooklyn, N. Y. Under-garment	370,781	Oct. 4	46	11	41	11
Haight, Henry J., New York, N. Y. Warming device for poultry-coops	356,120	Jan. 18	1193	{ 316 317	{ 38	244
Haight, Henry J., New York, N. Y. Thermometer or thermoscope	356,761	Feb. 1	28	9	38	428
Haight, Henry J., New York, N. Y. Electro-magnetic thermoscope	358,350	Feb. 22	2317	614	38	876
Haight, Henry J., New York, N. Y. Self-signaling and self-recording electro-magnetic thermoscope	358,854	Mar. 8	650	{ 160 161 162 163 164	{ 38	1029
Haight, Henry J., New York, N. Y. Electro-magnetic transmitting and distributing thermoscope	359,210	Mar. 8	1128	{ 293 294 296	{ 38	1118
Haight, Henry J., New York, N. Y. Electro-magnetic thermoscope	362,957	May 17	1271	{ 337 338	{ 39	723
Haines, Allen W., et al. (See Diehl and Weiss, assignors.)						
Haines, Alvin S., Slatington, and W. Breidenbach, Philadelphia, Pa.; said Breidenbach assignor to said Haines. Mail-bag	374,300	Dec. 6	184	49	41	1081
Haines, Daniel A., Pittsburg, Pa. Machine for cutting ice	369,107	Aug. 30	2552	678	40	972
Haines, Isaiah, Porter, Mich. Corn-planter	360,345	Mar. 29	2904	740	38	1474
Haines, Lewis A., Harrisburg, Pa. Balanced valve	365,680	June 28	2167	565	39	1523
Haines, Lewis A., Harrisburg, Pa. Governor for steam-engines	369,241	Aug. 30	2710	720	40	1005
Haines, Robert, assignor one-half to T. G. Hawkes, Corning, N. Y. Incandescent-electric-light bulb	372,313	Nov. 1	44	14	41	480
Haines, Samuel, Greenville, N. H. Mill-building	371,576	Oct. 18	1191	310	41	250
Haines, Samuel A., Guide, Tex. Ant-trap	360,293	Mar. 29	2841	723	38	1463
Hains, William H., assignor of one-half to W. C. Marsh, Sheldon, Vt. Hot-air heater	357,769	Feb. 15	1520	{ 395 396	{ 38	721
Hainsworth, William. (See Bagaley and Hainsworth.)						
Haish, Jacob, De Kalb, Ill. Barbed wire	356,762	Feb. 1	29	9	38	428
Haish, Jacob, De Kalb, Ill. Lighting railway-coaches	361,220	Apr. 12	1210	{ 307 308	{ 39	230
Haish, Jacob, De Kalb, Ill. Car-coupling	372,906	Nov. 8	940	254	41	653
Haith, John W. (See Ady and Haith.)						
Haitz, Fredrick, Towanda, Ill. Umbrella	360,294	Mar. 29	2841	723	38	1463
Hake, Jesse S. (See Panabaker, Peter F., assignor.)						
Hake, Simon, Des Moines, Iowa. Washing-machine	366,216	July 12	640	174	40	129
Hakes, Nathan L., Grafton, N. Y. Wagon-jack	367,973	Aug. 9	931	252	40	637
Haldan, Alexander, Yuma, Colo. Windmill	367,517	Aug. 2	241	69	40	497
Hale, Caleb D., Leadville, Colo. Combined fuse-cutter, cap-setter, and inserter	365,179	June 21	1419	374	39	1368
Hale, Charles E. (See McCormick, Isaac R., assignor.)						
Hale, Charles W., Eureka, Kans. Combined cock and valve	372,314	Nov. 1	45	14	41	480
Hale, Charles W., Eureka, Kans. Wrench	372,750	Nov. 8	687	190	41	609
Hale, Cutler R., Mason City, Iowa. Gate-hinge	366,772	July 19	1409	377	40	283
Hale, George C. (See Mason and Hale.)						
Hale, Henry. (See Hale and Harvey.)						
Hale, Henry S., Philadelphia, Pa. Car-seat	359,354	Mar. 15	1332	345	38	1163
Hale, Henry S., Philadelphia, Pa. Car-seat	364,011	May 31	2767	717	39	1025
Hale, Henry S., Philadelphia, Pa. Spring-seat	371,448	Oct. 11	1008	262	41	205
Hale, Joshua B., Hubbardston, Mass. Trousers-stretcher	363,012	May 31	2770	718	39	1026
Hale, Thomas and H., and S. D. Harvey, Wales, N. Y., assignors to said Thomas and H. Hale. Hay-cocking machine	371,314	Oct. 11	823	210	41	169
Hale, William E. (See Baldwin, Cyrus W., assignor.)						
Hale, William E. (See Bassett, Norman C., assignor.)						
Hale, William E. (See Von Martini, Friedrich, assignor.)						
Hale, William E., assignor to Hydraulic Elevator Company, Chicago, Ill. Hydraulic engine	356,999	Feb. 1	357	95	38	488
Hale, William P., Brockport, N. Y. Grain-binding harvester	372,067	Oct. 25	1918	{ 494 495 496 497	{ 41	400
Hale, William P., Brockport, N. Y. Harvester-reel	372,068	Oct. 25	1927	497	41	401
Haley, Christina J., New York, N. Y. Shoulder-brace	370,055	Sept. 20	1075	284	40	1252
Haley, Eugene H., assignor of one-third to A. B. Bradley, Friendship, N. Y. Cattle-stanchion	356,281	Jan. 18	1406	371	38	284
Halkyard, William, Providence, R. I. Button-fastener	364,013	May 31	2771	718	39	1026
Halkyard, William, Providence, R. I. Machine for setting lacing-hooks	364,014	May 31	2772	{ 718 719	{ 39	1026
Hall, Adolphus, Peoria, Ill. Clock-winding mechanism	374,061	Nov. 29	2668	717	41	1008
Hall, Adolphus E., et al. (See Hofstetter, Charles, Jr., assignor.)						
Hall, Albert, Brooklyn, N. Y. Button-fastener	361,410	Apr. 19	1464	378	39	288
Hall, Albert B., Covington, Ky. Surgical dressing	372,142	Oct. 25	2039	.....	41	421
Hall, Albert C., and H. S. Bailey, Denver, Colo.; said Bailey assignor to said Hall. Wheel-hub	362,506	May 10	616	174	39	597
Hall, Alexander N., Jacksonville, Ill. Car-coupling	363,385	May 24	1848	486	39	844
Hall, Charles, New York, N. Y. Bolt for elevated railways	362,274	May 3	289	80	39	529
Hall, Charles, New York, N. Y. Riveting-machine	373,891	Nov. 29	2423	651	41	960
Hall, Charles E., Brick Church, N. J. Tool-holder for lathes	358,607	Mar. 1	289	69	38	957
Hall, Clifford P., Racine, Wis. Lamp-extinguisher	358,658	Mar. 1	354	85	38	969
Hall & Co., B. L. (See Lewis, Russell H., assignor.)						
Hall, Edward. (See Price, Abraham, assignor.)						
Hall, Edward H., et al. (See Tonns, Lewis N., assignor.)						
Hall, Elizabeth H. R., Brockville, Ontario, Canada. Moccasin	362,507	May 10	617	174	39	597

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Hall, Ella. (See Hall, John, assignor.)						
Hall, F. Rockwood. (See Dearborn, Wyman, assignor.)						
Hall, Frank, <i>et al.</i> (See Hofstetter, Charles, Jr., assignor.)						
Hall, Frank A. (See Tilley, Edwin F., assignor.)						
Hall, Frank C., assignor of two-thirds to W. C. Stevenson and C. F. Thomas, Philadelphia, Pa. Button-hole attachment for sewing-machines.	367,291	July 26	2123	{ 573 } 574	{ 40 } 39	425 821
Hall, Frederick J., assignor of one-half to S. L. Hall, Wallingford, Conn. Spool-holder.	363,330	May 17	1778	466	39	821
Hall, George F., Long Branch, N. J. Rocking-chair.	355,315	Jan. 4	32	9	38	8
Hall, George F., Long Branch, N. J. T-square and gage attachment for rules.	356,533	Jan. 25	1764	459	38	359
Hall, George W. (See Hill and Hall.)						
Hall, George W., Washington, D. C. Type-writing machine.	364,343	June 7	182	51, 52	39	1123
Hall, Harvey B., assignor of one-third to P. C. Masier, Homer, Ill. Device for securing railway-rails.	356,404	Jan. 18	1582	416	38	318
Hall, Harvey M., and D. H. Mahoney, Olney, Ill. Railway-joint.	362,958	May 17	1276	338	39	724
Hall, Henry A., New York, N. Y. Hod-elevator.	374,791	Dec. 13	889	233	41	1229
Hall, Henry O., St. Paul, Minn. Extension-table slide.	359,782	Mar. 22	2018	511	38	1304
Hall, James T. (See Gilbert, John T., assignor.)						
Hall, John. (See Little, Robert R., assignor.)						
Hall, John, assignor of one-half to E. Hall, Creston, Iowa. Ice-chute.	365,338	June 21	1649	{ 430 } 431	{ 39 } 39	1411
Hall, John A. (See Wanner, Martin, assignor.)						
Hall, John L., Van Wert, Ohio. Nut-lock.	363,820	May 31	2489	646	39	973
Hall, Joseph S. (See Ryerson, Van Buren, assignor.)						
Hall, Luther, Boston, Mass., assignor to Boston Woven Hose Company, Portland, Me. Machine for sewing with wire.	359,563	Mar. 15	1665	424	38	1224
Hall, Michael C., Charlotteville, assignor of one-half to D. K. Ferguson, Simcoe, Ontario, Canada. Running-gear for wagons.	372,907	Nov. 8	942	255	41	653
Hall, O. Clifford, Wilkes-Barre, Pa. Wagon-axle.	374,301	Dec. 6	186	49	41	1080
Hall, Osborn B., Malden, Mass. Machine for tapping mains.	358,445	Mar. 1	32	9	38	909
Hall, Osborn B., Malden, Mass. Fusible link for automatic fire-extinguishers.	370,390	Sept. 27	1555	416	40	1350
Hall, Osborn B., Malden, assignor of one-half to C. C. Walworth, Boston, Mass. Automatic releasing-hook.	357,148	Feb. 4	603	154	38	531
Hall, Selah A. (See Alexander, Thomas S., assignor.)						
Hall, Silas L. (See Hall, Frederick J., assignor.)						
Hall, Thurston G., Chicago, Ill., assignor to International Oil and Refining Company of Michigan. Refining hydrocarbon oil.	372,672	Nov. 8	579	-----	41	589
Hall, Walter F., Ulrich, Mo. Car-coupling.	356,763	Feb. 1	29	9	38	429
Hall, William C., Sycamore, Ill. Laying concrete walks.	355,990	Jan. 11	995	-----	38	202
Hall, William H., Redhill, county of Surrey, England. Buckle.	364,245	June 7	62	18	39	1100
Hall, William P., and C. C. Barnett, Piqua, Ohio. Railway-tie.	373,656	Nov. 22	2093	559	41	889
Hallaran, Denis J., Cleveland, Ohio. Fly-holding device for stop-cylinder printing-machines.	359,074	Mar. 8	951	243	38	1085
Hallberg, Nils J., Österåsen, Svensta, Sweden. Provision or lunch bag.	370,866	Oct. 4	171	45	41	34
Haller, Charles, New York, N. Y. Folding baby-carriage.	357,382	Feb. 8	923	243	38	602
Haller, Charles, New York, N. Y. Folding baby-carriage.	368,718	Aug. 23	2001	{ 529 } 530	{ 40 } 39	857 134
Hallett, William R., assignor of one-half to A. Hadley, Batehtown, Ill. Sulky hay rake and tedder combined.	360,876	Apr. 12	685	{ 179 } 180	{ 39 } 38	134 690
Hallidie, Andrew S., San Francisco, Cal. Clip for wire-rope ways.	357,664	Feb. 15	1348	355	38	690
Hallidie, Andrew S., San Francisco, Cal. Bale-tie.	358,608	Mar. 1	290	69	38	957
Hallidie, Andrew S., San Francisco, Cal. Wire-rope-making machine.	369,055	Aug. 30	2479	658	40	959
Halliwell, Jane. (See Lavigne, Joseph P., assignor.)						
Halliwell, Samuel. (See Johnson, Albert W., assignor.)						
Hallock, John K. (See Spaulding, Elijah F., assignor.)						
Hallock, William R., Braiden Town, Fla. Plant-protector.	374,302	Dec. 6	186	49	41	1082
Hallowell, Albert, assignor of one-half to C. H. Fisher, Lowell, Mass. Vented oil-can.	358,811	Mar. 1	575	143	38	1010
Hallowell, Albert, Lowell, Mass., assignor to Hallowell Brass Company, Portland, Me. Hose-nozzle.	375,624	Dec. 27	2070	538	41	1470
Hallowell Brass Company. (See Hallowell, Albert, assignor.)						
Hall's Safe and Lock Co. (See Corry, William, assignor.)						
Halsey, Edward, and J. Pomeroy, Springfield, Mass. Paper holder and binder.	373,184	Nov. 15	1371	364	41	741
Halsey, William S., Bridgeport, Conn. Steam-engine.	359,926	Mar. 22	2244	{ 564 } 565	{ 38 } 39	1346 1523
Halsey, William S., Bridgeport, Conn. Lathe head-stock.	365,681	June 28	2168	{ 565 } 566	{ 39 } 39	1523
Halstead, C. L. (See Sidensol, Theodore, assignor.)						
Halstead, Francis D. (See Gardner, Perry G., assignor.)						
Halstead, George W. (See Godfrey and Halstead.)						
Halter, Leander. (See Blue and Halter.)						
Halton, Jesse C., assignor of one-half to L. A. Harris, Deanburg, Tenn. Plow.	362,002	Apr. 26	2325	606	39	454
Halton, Samuel, assignor of one-half to W. J. Crow and A. Wettennark, Henderson, Tex. Car-coupling.	357,555	Feb. 8	1182	311	38	651
Halverson, Halbert L., Whitewater, Wis. Tailor's crayon-sharpening machine.	372,315	Nov. 1	47	14	41	480
Ham Coal Saving Company. (See Ham, John, assignor.)						
Ham, John, Brooklyn, N. Y. Boiler-furnace.	358,351	Feb. 22	2320	615	38	876
Ham, John, Brooklyn, N. Y., assignor to Ham Coal Saving Company, of New York. Steam-boiler furnace.	360,385	Mar. 29	2970	753	38	1485
Ham Manufacturing Company, C. T. (See Orphy, John W., assignor.)						
Hamann, Carl, Reinbeck, Prussia, Germany. Scissors or shears.	374,358	Dec. 6	274	73	41	1098
Hambay, James T., Pittsburg, Pa. Making pipe-fittings.	361,507	Apr. 19	1587	412	39	312
Hambay, James T., Pittsburg, Pa. Forming screw-couplings for pipes.	361,508	Apr. 19	1589	412	39	312
Hambay, James T., Pittsburg, Pa. Manufacture of pipe-couplings.	361,509	Apr. 19	1590	412	39	313
Hambay, James T., Pittsburg, Pa. Blank for pipe-fittings.	362,003	Apr. 26	2326	607	39	454
Hambay, James T., assignor to Union Switch and Signal Company, Pittsburg, Pa. Switch and signal interlocking apparatus.	361,510	Apr. 19	1591	{ 412 } 413	{ 39 } 39	313 313
Hambitzer, Joseph F., Houghton, Mich. Sash-holder.	373,657	Nov. 22	2094	560	41	889
Hambleton, Francis H., Baltimore, Md. Registering apparatus.	360,291	Mar. 29	2839	722	38	1462
Hambleton, Francis H., Baltimore, Md. Gas-making apparatus.	361,820	Apr. 26	2047	533	39	405
Hambleton, Francis H., Baltimore, Md. Gas-controlling apparatus.	364,644	June 14	615	{ 165 } 166	{ 39 } 39	1211
Hambrecht, George, <i>et al.</i> (See Snell and Van Slyke, assignors.)						
Hambruch, Heinrich F., Hamburg, Germany. Mechanical musical instrument.	371,449	Oct. 11	1010	262	41	206
Hambruch, Heinrich F., Hamburg, Germany. Key-board player for musical instruments.	371,450	Oct. 11	1010	263	41	206

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Hambujer, Ephraim, assignor of three-fourths to S. W. Stewart and H. Wünsch, Detroit, Mich. Furniture-caster.....	365,809	July 5	71	21	40	15
Hambujer, Ephraim, assignor of one-half to J. C. Eichhorn, Detroit, Mich. Combined latch and lock.....	366,829	July 19	1483	396	40	296
Hambujer, Ephraim, assignor of one-half to S. W. Stewart, Detroit, Mich. Combined latch and lock.....	371,577	Oct. 18	1191	310	41	250
Hambujer, Ephraim, assignor of one-half to S. W. Stewart, Detroit, Mich. Store-service apparatus.....	374,062	Nov. 29	2669	717	41	1008
Hamburger, Manes, Washington, D. C. Suspenders.....	360,772	Apr. 5	532	137	39	100
Hamby, Ezekiel J., Empire, Ky. Hand corn-planter.....	375,286	Dec. 20	1601	420	41	1373
Hamel, Gustavus, De Soto, Mo. Combined chair and lounge.....	357,383	Feb. 8	924	{ 243 244 }	{ 38 38 }	602
Hamer, Harry R., North Adams, Mass. Washing-machine.....	358,264	Feb. 22	2202	580	38	854
Hamer, John, Hooversville, Pa. Closed well.....	369,056	Aug. 30	2480	659	40	959
Hamilton, Addison R. (See Ketcham, John G., assignor.)						
Hamilton, Benjamin F., Boston, Mass. Tramway for elevated railways.....	366,627	July 12	1203	322	40	238
Hamilton, Benjamin F., assignor to Enos Electric Railway Supply Company, Boston, Mass. Guide-truck for electric railways.....	365,339	June 21	1650	431	39	1411
Hamilton, Benjamin F., assignor to Enos Electric Railway Supply Company, Boston, Mass. Swivel-truck for electric railways.....	365,340	June 21	1651	431	39	1412
Hamilton, Benjamin F., assignor to M. H. Robinson and O. A. Foster, Boston, Mass. Tramway for elevated electric railways, with means of insulating the rails.....	365,341	June 21	1652	432	39	1412
Hamilton, Charles A., Meridian, Miss. Hay-press.....	357,480	Feb. 8	1059	280	38	628
Hamilton, Emery M., New York, N. Y. Journal-bearing for type-writing machines.....	357,665	Feb. 15	1349	355	38	691
Hamilton, Emery M., New York, N. Y. Type-writing machine.....	357,667	Feb. 15	1354	{ 356 357 }	{ 38 38 }	691
Hamilton, Emery M., New York, N. Y. Lever-movement for type-writers.....	357,668	Feb. 15	1356	357	38	691
Hamilton, Emery M., New York, N. Y. Inking-pad for type-writers.....	357,669	Feb. 15	1357	357	38	691
Hamilton, Emery M., New York, N. Y. Type-writing machine.....	357,671	Feb. 15	1360	358	38	692
Hamilton, Emery M., New York, N. Y. Type-writing machine.....	357,920	Feb. 15	1708	446	38	758
Hamilton, Emery M., New York, N. Y. Type-writing machine.....	357,921	Feb. 15	1709	446	38	758
Hamilton, Emery M., assignor to Hamilton Type Writer Company, New York, N. Y. Type-writing machine.....	357,666	Feb. 15	1350	{ 355 356 357 }	{ 38 38 38 }	691
Hamilton, Emery M., assignor to Hamilton Type Writer Company, New York, N. Y. Paper-carriage feed mechanism for type-writing machines.....	357,670	Feb. 15	1357	{ 357 358 }	{ 38 38 }	692
Hamilton, Frederick R., Bath, N. Y. Overcoming dead-centers.....	364,409	June 7	283	78	39	1142
Hamilton, Frederick R., assignor of two-thirds to H. Faucett and V. Bouton, Bath, N. Y. Boot-strap.....	361,061	Apr. 12	959	242	39	182
Hamilton, Gail W. (See Hamilton, James T. and G. W.)						
Hamilton, James B., Worcester, Mass. Reed-organ.....	363,386	May 24	1849	486	39	845
Hamilton, James B., Worcester, Mass. Reed-organ.....	363,387	May 24	1851	487	39	845
Hamilton, James B., Worcester, Mass. Reed-organ.....	363,388	May 24	1852	487	39	845
Hamilton, James J., New Castle, Ind. Combined hay rake and loader.....	366,580	July 12	1134	304	40	226
Hamilton, James J., and D. Bearly, New Castle, Ind. Fire extension-ladder and truck.....	359,603	Mar. 22	1748	445	38	1256
Hamilton, James T. and G. W., Friend, Nebr. Harrow.....	370,867	Oct. 4	172	45, 46	41	34
Hamilton, John C. (See Summerfeld, Heinrich, assignor.)						
Hamilton, Jonas. (See Babb, Marshal L., assignor.)						
Hamilton, Jonathan R., Minneapolis, Minn. Tool-holder for grindstones.....	359,151	Mar. 8	1049	273	38	1104
Hamilton, Jonathan R., assignor of one-half to L. R. Palmer, Minneapolis, Minn. Speculum.....	373,361	Nov. 15	1646	436	41	791
Hamilton, Jonathan R., assignor of one-half to L. R. Palmer, Minneapolis, Minn. Surgical-instrument holder.....	373,362	Nov. 15	1647	436	41	791
Hamilton, Jonathan R., assignor of one-half to L. R. Palmer, Minneapolis, Minn. Syringe.....	373,398	Nov. 15	1700	450	41	801
Hamilton, Jonathan R., assignor of one-half to L. R. Palmer, Minneapolis, Minn. Electrode for forming clots in varicose veins.....	373,399	Nov. 15	1700	450	41	801
Hamilton, Jonathan R., assignor of one-half to L. R. Palmer, Minneapolis, Minn. Water-reservoir for surgical uses.....	373,400	Nov. 15	1701	451	41	801
Hamilton, Milton A., Detroit, Mich. Knockdown box.....	373,828	Nov. 29	2338	{ 627 628 }	{ 41 41 }	944
Hamilton, Nathaniel A., St. Joseph, Mich. Book, magazine, or paper holder.....	360,960	Apr. 12	811	208	39	156
Hamilton, Oliver M., Springfield, Mass. Folding box.....	366,773	July 19	1410	377	40	283
Hamilton, Samuel C., Jr., Biddeford, Me. Lumber-rule.....	372,673	Nov. 8	579	157	41	589
Hamilton, Samuel L. (See Yoder and Hamilton.)						
Hamilton, Thomas H., Baltimore, Md., assignor to Dickey, Tansley & Co. Can-soldering machine.....	359,723	Mar. 22	1914	{ 485 486 }	{ 38 38 }	1287
Hamilton, Thomas W. (See Heyne, Otto J., assignor.)						
Hamilton Type Writer Company. (See Hamilton, Emery M., assignor.)						
Hamilton, William, et al. (See Santee, Ellis M., assignor.)						
Hamilton, William, Allegheny City, Pa. Coffin-handle.....	360,013	Mar. 29	2395	606	38	1380
Hamilton, William, Allegheny City, Pa. Coffin.....	364,645	June 14	616	166	39	1212
Hamilton, William, Allegheny, Pa. Coffin-fastening device.....	370,331	Sept. 20	1459	392	40	1325
Hamilton, William W., Mount Sterling, Ky. Metallic fence.....	363,227	May 17	1638	430	39	795
Hamlin, Charles F., Grinnell, Iowa. Rake attachment for mowers.....	364,246	June 7	64	19	39	1100
Hamlin, George E., South Orange, N. J. Thill-coupling.....	371,683	Oct. 18	1342	347	41	281
Hamlin, Henry A. (See Cogger and Hamlin.)						
Hamlin, Mahlon, Catawissa, Pa. Car-wheel.....	358,352	Feb. 22	2321	615	38	877
Hamlin, Mahlon, Catawissa, Pa. Axle-box.....	358,659	Mar. 1	355	85	38	969
Hamlink, Derrick F., Washington, D. C. Anti-neuralgic elixir.....	366,093	July 5	466	.....	40	88
Hamm, George B. (See Yokom, Wilford W., assignor.)						
Hamm, William S. (See Seaver and Hamm.)						
Hamm, William S., Newton, assignor to Boot and Shoe Sole Laying Company, Boston, Mass. Sole-laying machine.....	375,549	Dec. 27	1963	511	41	1452
Hammel, Leo, New York, N. Y. Spectacles.....	362,377	May 3	427	119	39	558
Hammel, Leo, New York, N. Y. Spectacles.....	363,632	May 24	2223	576	39	916
Hammelmann, Charles, Buffalo, N. Y. Clutching device for forges.....	369,177	Aug. 30	2635	699	40	991
Hammer, Conrad, assignor of one-half to G. Dittly, Buffalo, N. Y. Bushing for casks.....	363,633	May 24	2224	576	39	916
Hammer, Robert E., Philadelphia, Pa. Adjustable stool.....	358,660	Mar. 1	355	85	38	970
Hammer, T. G. (See Williams, Robert E., assignor.)						
Hammer, Turner G. (See Williams and Hammer.)						
Hammer, William J., Cherry Grove, Ohio. Music and book holder.....	363,228	May 17	1639	430	39	795
Hammer, William J., Boston, Mass. Can-opener.....	369,108	Aug. 30	2553	678	40	972
Hammer, William J., Boston, Mass., assignor to himself and F. R. Upton, Orange, N. J. Combination-tool.....	363,331	May 17	1778	466	39	821
Hammer, William J., Boston, Mass., assignor to himself and F. R. Upton, Orange, N. J. Device for attaching and detaching electric lamps.....	363,332	May 17	1779	466	39	822

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Hammer, William J., Boston, Mass., assignor to himself and F. R. Upton, Orange, N. J. Indicator for electric-lighting systems.....	363,333	May 17	1781	467	39	822
Hammer, William J., Boston, Mass., assignor to himself and F. R. Upton, Orange, N. J. Electrical switch.....	363,334	May 17	1783	467	39	823
Hammer, William J., Boston, Mass., assignor to himself and F. R. Upton, Orange, N. J. Connecting device for electrical conductors.....	368,764	Aug. 23	2060	546	40	868
Hammer, William J., Boston, Mass., assignor to himself and F. R. Upton, Orange, N. J. Safety-catch for electrical circuits.....	368,765	Aug. 23	2061	546	40	869
Hammermiller, Charles A., Philadelphia, Pa. Vertically-adjustable stool.....	366,479	July 12	975	265	40	194
Hammerstein, Oscar, New York, N. Y. Bath-tub and wash-basin.....	360,292	Mar. 29	2840	722	38	1463
Hammerstein, Oscar, New York, N. Y. Cigar-rolling machine.....	363,065	May 17	1419	375	39	752
Hammerstein, Oscar, New York, N. Y. Forming long fillings for cigars.....	367,906	Aug. 9	832	223	40	618
Hammon, Isaac W., Hammond, Ind. Tongue-support.....	368,392	Aug. 16	1518	404	40	757
Hammond, Andrew H., Worcester, Mass. Octave-coupler for organs. (Reissue).....	10,832	May 3	575	160	39	585
Hammond, Andrew H., Worcester, Mass. Octave-coupler.....	364,410	June 7	284	78	39	1142
Hammond, Andrew H., Worcester, Mass. Machine for pointing and threading pieces of wire.....	372,412	Nov. 1	188	53	41	505
Hammond, Andrew H., Worcester, Mass. Machine for making reed-plates.....	373,588	Nov. 22	1991	529	41	867
Hammond, Ben. M., San Antonio, Tex. Electrical horometer.....	373,975	Nov. 29	2544	684	41	983
Hammond, Everett C., Pullman, assignor, by mesne assignments, to F. B. H. Bonter, Chicago, Ill. Car-axle box.....	371,500	Oct. 11	1081	282	41	220
Hammond, Henry, New Haven, Conn. Nippers.....	368,470	Aug. 16	1646	439	40	781
Hammond, Joseph C. (See King, Theodore E., assignor.)						
Hammond, Joseph C., et al. (See Pullman, Herbert S., assignor.)						
Hammond, Joseph C., Jr., et al. (See Dalton, Dan F., assignor.)						
Hammond, M. Burdette, Bridgeport, Conn. Bustle.....	373,286	Nov. 15	1523	403	41	769
Hammond, William H., New Bedford, Mass. Tool-handle.....	374,063	Nov. 29	2670	717	41	1008
Hampe, Adolph, New York, N. Y. Sash-cord fastener.....	367,206	July 26	1987	537	40	400
Hampton, John A., Rosedale, Kans. Baling-press.....	370,475	Sept. 27	1689	{ 448 449 }	{ 40 }	1375
Hampton, Joseph, Wednesbury, county of Stafford, assignor of one-half to S. Partridge, Darlaston, England. Machinery for grinding and polishing metal, &c.....	375,625	Dec. 27	2072	539	41	1470
Hampton, Robert I., Athens, Ga. Breech-loading fire-arm.....	375,626	Dec. 27	2073	{ 539 540 }	{ 41 }	1471
Hampton, Thomas E., Wabash, Ind. School desk and seat.....	364,247	June 7	65	19	39	1101
Hanchett, Lafayette, Empire City, Colo. Type-writing machine.....	360,685	Apr. 5	409	105	39	77
Hanchett, Silas. (See Moore, William M., assignor.)						
Hancock, Benjamin F., Littleville, Ga. Fertilizer-distributor.....	368,945	Aug. 30	2319	617	40	928
Hancock, John H., Yonkers, N. Y. Vacuum evaporating apparatus.....	357,481	Feb. 8	1060	280	38	628
Hancock, Martha B., Syracuse, N. Y. Wheel attachment for sleighs.....	365,471	June 28	1855	482	39	1462
Hancock, Mathew S., and J. Johnson, French Lick, Ind. Burglar gun and alarm.....	371,838	Oct. 18	1573	407	41	328
Hancock, Milton T., assignor of one-half to J. E. Biscoe, Little Rock, Ark. Sulky-plow.....	366,094	July 5	466	{ 126 127 }	{ 40 }	88
Hancock, Milton T., assignor to Hancock Plow Company, Little Rock, Ark. Wheel-plow.....	374,152	Nov. 29	2794	750	41	1032
Hancock Plow Company. (See Hancock, Milton T., assignor.)						
Hand, Benjamin R., Camden, N. J. Washing-machine.....	362,740	May 10	956	260	39	658
Hand, James, assignor to G. R., W. M., and L. H. Ayres, Philadelphia, Pa. Horse-net.....	370,617	Sept. 27	1904	506	40	1414
Hand, James, assignor to G. R., W. M., and L. H. Ayres, Philadelphia, Pa. Fly-net.....	370,696	Sept. 27	2022	538	40	1436
Hand, Oscar. (See Hand, Townson, assignor.)						
Hand, Townson, assignor of one-half to O. Hand, Shelbyville, Ind. Washing-machine.....	363,742	May 24	2378	{ 617 618 }	{ 39 }	946
Hand, William, Hamilton, M. C. Wright, and F. A. Pocock, Toronto, Canada. Electrical signal device.....	357,922	Feb. 15	1710	446	38	758
Handloser, Thomas, New York, N. Y. Metal roll.....	375,352	Dec. 27	1696	446	41	1400
Handshy, Henry M., Columbus, Ohio. Cheese-knife.....	363,822	May 31	2492	647	39	973
Handy, Russell, Manville, R. I. Machine for splitting double pile fabrics.....	368,829	Aug. 23	2147	569	40	885
Handy, Russell, Manville, R. I. Loom for weaving double piled fabrics.....	374,064	Nov. 29	2671	718	41	1008
Hanes, George S., and A. Shaver, Iroquois, Ontario, Canada. Fire-escape ladder.....	362,959	May 17	1277	339	39	724
Hanford, Orrin A., Bloomington, Ill. Reclining-chair.....	367,292	July 26	2134	574	40	426
Hanfen & Co., John E. (See Bywater, Levi, assignor.)						
Hanika Iron Fence Company. (See Rogers, Timothy, assignor.)						
Hanington, Alfred W., Ridgewood, N. Y. Spoon-holder.....	370,942	Oct. 4	303	74	41	60
Hänisch, Emil, and M. Schroeder, Hamborn, Prussia, Germany. Obtaining sulphur from furnace-gases.....	361,761	Apr. 26	1962	512	39	389
Hankins, John A., Burnside, Ill. Adjustable stove-truck.....	360,295	Mar. 29	2842	723	38	1463
Hanks, Alexander P. R., New Berne, N. C. Short-stop blinder for bridles.....	366,313	July 12	772	{ 208 209 }	{ 40 }	154
Hanks, Francis M., Midway, La. Cotton-harvester.....	359,724	Mar. 22	1916	486	38	1287
Hanlen, Thomas J., Macon, Ga. Construction of ships, &c.....	359,861	Mar. 22	2148	542	38	1328
Hanlen, Thomas J., Macon, Ga. Construction of vessels.....	365,180	June 21	1420	374	39	1368
Hanlon, John, New York, N. Y. Apparatus for manufacturing illuminating and heating gas.....	367,619	Aug. 2	379	107	40	524
Hanlon, John, New York, N. Y. Apparatus for manufacturing illuminating and heating gas.....	367,620	Aug. 2	382	{ 108 109 }	{ 40 }	525
Hanner, John L., Burlingame, Kans. End-gate fastener.....	365,992	July 5	333	88	40	63
Hanna, Clarence B. (See Cannon, Edward A., assignor.)						
Hanna, Henry W. (See Ping and Hanna.)						
Hanna, John F., near Momence, Ill. Wire fence.....	359,604	Mar. 22	1750	446	38	1257
Hanna, John F., near Momence, Ill. Wire gate.....	361,942	Apr. 26	2228	580	39	438
Hanna, Xenophon, Dayton, Ohio. Vapor stove and heating apparatus.....	364,510	June 7	428	115	39	1169
Hannah, G. W. T. (See Sullivan, James M., assignor.)						
Hannan, John S. (See Dambach and Hannan.)						
Hannay, David L., Greenville, N. Y. Baling-press.....	368,393	Aug. 16	1519	405	40	758
Hannay, James H., Porchester Terrace, county of Middlesex, England. Hansom-cab.....	370,697	Sept. 27	2023	538	40	1436
Hannigan, James, and A. Miller, assignors of one-third to W. H. Law, Brooklyn, N. Y. Hermetically-sealed can.....	361,411	Apr. 19	1465	378	39	288
Hannigan, Peter. (See Hannigan, Thomas, assignor.)						
Hannigan, Thomas, assignor to P. Hannigan, Boston, Mass. Device for jogging or evening sheets of paper on fly-tables of printing-presses.....	365,004	June 14	1156	303	39	1310
Hannis, George W., Chicago, Ill. Hose-reel.....	356,313	Jan. 18	1454	382	38	293
Hanscom, John F., Boston, Mass. Ticket-punch.....	357,000	Feb. 1	358	95	38	489
Hanscom, William W., San Francisco, Cal. Air-brake.....	369,057	Aug. 30	2481	659	40	959
Hansen, Charles, and J. Brandt, Marinette, Wis. Straw-cutter.....	370,698	Sept. 27	2023	539	40	1436
Hansen, Hans, Copenhagen, Denmark. Car brake and starter.....	359,152	Mar. 8	1051	274	38	1105

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Hansen, Hans C., Boston, Mass. Pin-hole-perforating machine	364,248	June 7	66	19	39	1101
Hansen, Knud C., Racine, Wis. Slicing-machine	361,870	Apr. 26	2133	553	39	420
Hansen, Ludwig. (See Smith, Andrew, assignor.)						
Hansen, Mary V. (See McCracken, Edwin D., assignor.)						
Hansen, Ole, Walnut Grove, Cal. Fire-escape	367,907	Aug. 9	833	224	40	618
Hansen, Rasmus C., Uttersler, and M. H. Brunn, Horslunde, Lolland, Denmark, assignors to Burrell & Whitman, Little Falls, N. Y. Centrifugal creamer	356,466	Jan. 25	1673	438	38	342
Hansen, Theodore, Brooklyn, N. Y. Book-holder	362,741	May 10	956	260	39	659
Hanser, Otto, Rockville, Conn. Driving-gear for bicycles	367,293	July 26	2135	574	40	426
Hanson, Albert, Huddersfield, county of York, England, assignor to W. Pilling, New York, N. Y. Chin-rest for violins	367,001	July 19	1700	457	40	337
Hanson, Charles, Rock Island, Ill. Plow	360,586	Apr. 5	284	69	39	54
Hanson, Charles H., and F. Nourse, Saco, Me. Creel	367,908	Aug. 9	834	224	40	619
Hanson, Francis O., assignor to Champion Iron Fence Company, Kenton, Ohio. Stairway	367,974	Aug. 9	932	252	40	637
Hanson, Freeman, Bar Mills, assignor of two-thirds to F. A. Burnham and W. H. Dyer, Saco, Me. Folding wash-bench	359,565	Mar. 15	1669	{ 425 426 }	{ 38 }	1226
Hanson, Freeman, Hollis, assignor of one-half to H. G. Briggs, Portland, Me. Railway-car ventilator	368,148	Aug. 9	1171	312	40	681
Hanson, George M. (See Hanson, Horace A., assignor.)						
Hanson, Henry, Boston, Mass. Car-brake	364,646	June 14	616	166	39	1212
Hanson, Horace A., assignor of one-half to G. M. Hanson, Calais, Me. Holdback for vehicles	367,518	Aug. 2	242	69	40	497
Hanson, John F., New Orleans, La. Thrashing-machine	356,121	Jan. 18	1195	317	38	245
Hanson, Joseph. (See Cleveland and Hanson.)						
Hanson, Joseph. (See Woelfel, Joseph, assignor.)						
Hanson, Joseph, Philadelphia, Pa. Cloth gig	358,153	Feb. 22	2050	539	38	825
Hanson, Joseph W., Boston, Mass. Puzzle	357,923	Feb. 15	1711	447	38	758
Hanson, Luther, Halifax, county of York, England. Electric-arc lamp	360,151	Mar. 29	2630	665	38	1423
Hanson, Newel P., Waterville, assignor, by mesne assignments, to Indurated Fibre Company, Portland, Me. Machine for forming hollow articles from pulp	365,743	June 28	2268	590	39	1541
Hanson, Peter. (See Frekker, Kathrine, assignor.)						
Hanson, William. (See Clay and Hanson.)						
Hanson, William, Calistoga, Cal. Gear mechanism	367,909	Aug. 9	836	225	40	619
Hanson, William, assignor to J. A. Skilton, trustee, Brooklyn, N. Y. Watch	371,139	Oct. 4	576	147	41	114
Hantsch, P. H. (See Phillippi, Francis A., assignor.)						
Hapenny, Davis C., New Brunswick, N. J. Portable fence	368,205	Aug. 16	1256	335	40	706
Hapgood, L. Adelle, Randolph, N. Y. Apparatus for preserving eggs	359,783	Mar. 22	2020	511	38	1304
Hapgood, L. Adelle, Randolph, N. Y. Apparatus for preserving eggs	359,784	Mar. 22	2021	511	38	1305
Hapgood Plow Company. (See Black, Joseph P., assignor.)						
Happe, Henry B., assignor of one-fourth to C. W. Rohrkaste, Beaver Falls, Pa. Wire-nail machine	359,564	Mar. 15	1666	{ 424 425 }	{ 38 }	1225
Harbach, F. (See Kessler, Loui, assignor.)						
Harback, Daniel L. (See Roe and Harback.)						
Harbaugh, Howard E. (See Johns, Will R., assignor.)						
Harbaugh, Howard E., assignor to S. B. Wilkins Company, Rockford, Ill. Circular-knitting machine	372,535	Nov. 1	366	{ 99 100 }	{ 41 }	540
Harbison, Joseph, Bavaria, Kans. Broadcasting seed-drill	362,157	May 3	145	.42	39	501
Harbridge, Frederick. (See Clarke and Harbridge.)						
Harcourt, Stillwell, assignor to W. W. Kimball Company, Chicago, Ill. Piano-forte action	371,578	Oct. 18	1192	310	41	250
Hard, Charles D. (See Hard and Crawford.)						
Hard, Henry D. and C. H., and J. Crawford, Oneida, N. Y. Folding cot	373,363	Nov. 15	1648	436	41	792
Hard, J. Randolph, New York, N. Y. Galvanic-battery cell	364,344	June 7	187	52	39	1124
Hard, John R., New York, N. Y. Vibrating rheotome	371,755	Oct. 18	1447	374	41	303
Hard, John W., Chicago, Ill. Combination-lock	370,254	Sept. 20	1353	362	40	1404
Hard, Josiah A., Denver, Colo. Can-holder and drip-pan	367,342	July 26	2201	591	40	439
Hard, Josiah A., assignor of one-half to W. B. Rundle, Denver, Colo. Pencil-sharpener	366,661	July 19	1254	335	40	255
Hardcastle, Coles D., New York, N. Y. Gearing	365,993	July 5	333	88	40	63
Hardcastle, George, San Francisco, Cal. Wick adjuster and regulator	372,020	Oct. 25	1839	476	41	387
Hardenbergh, Abram J., Brooklyn, N. Y. Bolt	366,394	July 12	877	235	40	173
Hardenbergh, Peter R. L. (See Brownson, Ralph, assignor.)						
Hardenbrook, Benjamin C., New York, N. Y. Woven fabric for forming seamless bags	358,265	Feb. 22	2203	580	38	854
Harder, John C. (See Meyer, Falcetti, and Harder.)						
Hardin, Eugene F., Lincoln, Nebr. Elevator-gate	374,739	Dec. 13	813	214	41	1215
Hardin, Eugene F., assignor to Dinges, McGahey & Co., Lincoln, Nebr. Car-door fastener	370,699	Sept. 27	2025	539	40	1436
Harding, August, Oakland, Cal. Electric-arc lamp	356,282	Jan. 18	1407	372	38	285
Harding, Charles M., Franklin, Ohio. Paper-cutting machine	371,579	Oct. 18	1193	311	41	250
Harding, Daniel J., assignor of two-thirds to P. Cain and R. McDonald, Louisville, Ky. Stamp-canceller	355,647	Jan. 4	478	128	38	94
Harding, Daniel J., assignor of three-fourths to J. S. Cain, R. McDonald, and P. Cain, Louisville, Ky. Car-coupling	364,104	May 31	2892	750	39	1050
Harding, Daniel J., assignor of three-fourths to J. S. Cain, R. McDonald, and P. Cain, Louisville, Ky. Car-coupling	375,322	Dec. 20	1655	434	41	1384
Harding, Edward W., Boston, Mass. Plumber's clamp	356,937	Feb. 1	267	73.74	38	470
Harding, Eliza J., Denver, Colo. Depurator	368,285	Aug. 16	1388	366	40	730
Harding, Fred D., Baldwin, Me. Washing-machine	367,621	Aug. 2	384	109	40	525
Harding, Horace, Tuscaloosa, Ala. Automatic dam	367,038	July 26	1752	472	40	355
Harding, John, Jr., assignor of three-fourths to C. B. Holman, A. Robinson, J. L. Cole, and C. E. Elliott, Wellington, Kans. Car-coupling	370,476	Sept. 27	1691	449	40	1375
Harding, Lebbeus G., Pierre, Dak. Ter. Axle-setter	363,135	May 17	1515	401	39	771
Harding, Samuel, Ansonia, Conn. Ellipsograph	364,758	June 14	790	209	39	1244
Harding, Thomas, Detroit, Mich. Mowing-machine	369,109	Aug. 30	2554	679	40	972
Hardison, George R. (See Hovey and Hardison.)						
Hardsoeg, Martin, Ottumwa, Iowa. Car-wheel	364,511	June 7	429	116	39	1169
Hardwick, Harry, Philadelphia, Pa. Weaving multiple-ply fabrics	359,862	Mar. 22	2149	.....	38	1328
Hardy, Albina M. (See Hardy, Emery E., assignor.)						
Hardy, Charles, Nashua, N. H. Bobbin	367,622	Aug. 2	385	109	40	525
Hardy, Dexter D., Chicago, Ill. Vibrating engine	373,287	Nov. 15	1524	403	41	769
Hardy, Dexter D., Chicago, Ill. Vibrating engine	373,288	Nov. 15	1525	403	41	769
Hardy, Emery E., assignor to A. M. Hardy, Newark, N. J. Snap-hook	360,522	Apr. 5	191	47	39	37
Hardy, Frederick, Norfolk, Va. Car-coupling	357,924	Feb. 15	1712	447	38	758
Hardy, Isham T., assignor to Catlin Tobacco Company, St. Louis, Mo. Machine for dressing tobacco	363,229	May 17	1640	{ 430 431 }	{ 39 }	796

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Hardy, John, and W. N. Clark, Jr., Brooklyn, N. Y., assignors to said Clark. Cornice-pole bracket.....	355,449	Jan. 4	201	54	38	41
Hardy, John B., Brooklyn, N. Y. Machine for threading and pointing screw-eyes.....	368,394	Aug. 16	1520	{ 405 406	{ 40	758
Hardy, Mary L., Eureka Springs, Ark. Mosquito-netting attachment.....	368,206	Aug. 16	1257	335	40	706
Hardy, W. V., <i>et al.</i> (See Goss, Edward, assignor.)						
Hare, Christopher C., <i>et al.</i> (See Nealy, Sid H., assignor.)						
Hare, Robert W., and R. Sproul, Pittsburg, Pa. Shaft attachment for vehicles.....	363,230	May 17	1641	431	39	796
Hare, Robert W., and R. Sproul, Pittsburg, Pa. Two-wheeled vehicle.....	364,921	June 14	1031	270	39	1288
Hare, Robert W., and R. Sproul, Pittsburg, Pa. Two-wheeled vehicle.....	375,287	Dec. 20	1603	421	41	1374
Harford, Arthur B., East Saginaw, Mich. Combined clock and alarm for hotels, &c.....	361,511	Apr. 19	1593	413	39	313
Harford, Henry B. (See Fosgate, Daniel O., assignor.)						
Harford, Henry B. (See Kohn, Roswell, assignor.)						
Harger, David, assignor of one-half to D. D. Harger, Des Moines, Iowa. Street-pavement.	360,152	Mar. 29	2632	666	38	1423
Harger, David D. (See Harger, David, assignor.)						
Hargraves, John, St. Clair, Pa. Miner's safety-box.....	368,471	Aug. 16	1647	439	40	782
Hargreaves, George, Detroit, Mich. Apparatus for washing clothes.....	360,014	Mar. 29	2396	606	38	1381
Hargreaves, George, Detroit, Mich. Washing-machine.....	361,695	Apr. 26	1872	485	39	374
Hargroder, William L., Church Point, La. Harrow.....	361,284	Apr. 19	1290	330	39	256
Harild, Hans, North Shields, county of Northumberland, England. Instrument for ascer-						
taining the variations of the compass.....	362,960	May 17	1278	339	39	724
Harker, Charles C. (See Harker, Lewis A. and C. C.)						
Harker, Lewis A., Columbus, and C. C. Harker, Troy, assignors of one-third to N. B. Peters,						
Miami, Ohio. Apparatus for medicating water and administering the same.....	373,932	Nov. 29	2477	665	41	970
Harkins, James E., and J. B. Willis, Ann Arbor, Mich. Bread-toaster or meat-broiler.....	375,288	Dec. 20	1604	421	41	1374
Harkness, William, New York, N. Y. Automatic fire-extinguisher.....	356,874	Feb. 1	187	51	38	456
Harkness, William, New York, N. Y. Fire-extinguishing apparatus.....	356,875	Feb. 1	189	51, 52	38	457
Harkrader, David, St. Louis, Mo. Weather-strip.....	361,008	Apr. 12	889	224	39	168
Harlan, Philip C., Allegheny, Pa. Hod-elevator.....	360,587	Apr. 5	286	70	39	55
Harland, Joel W., Frankfort, Ind. Gate.....	368,207	Aug. 16	1258	336	40	706
Harley, Howard W., and J. Brenner, Philadelphia, Pa. Take-up for knitting-machines.....	356,764	Feb. 1	30	10	38	429
Harley, Howard W., and J. Brenner, Philadelphia, Pa. Circular-knitting machine.....	364,345	June 7	189	52	39	1124
Harley, Olin, South Whitley, Ind. Taves-trough hanger.....	369,708	Sept. 13	546	150	40	1148
Harlin, George C., Hedrick, Iowa. Gearing for washing-machines.....	367,039	July 26	1753	473	40	356
Harling, George, Lockwood, near Huddersfield, England. Loom-temple.....	355,818	Jan. 11	732	191	38	150
Harman, Charles, Tiffin, Ohio. Rock or well drilling machine.....	372,143	Oct. 25	2040	522	41	422
Harman, Stephen S., New York, N. Y. Marking-brush.....	365,472	June 28	1856	482	39	1463
Harmon, Frank W., Manchester Centre, N. Y. Nut-lock.....	362,832	May 10	1084	293	39	682
Harmon, Gibbs & Co. (See Young, Charles M., assignor.)						
Harmon, Zebulon K. (See Bragdon, David S., assignor.)						
Harmount, George A. (See Bachner, Joseph, assignor.)						
Harmount, Simpson J. (See Chidester and Harmount.)						
Harner, Lavender B. (See Losch and Harner.)						
Harney, Benjamin M., assignor to Water Pipe Protection Company, Louisville, Ky. Anti-						
freezing device for water-pipes.....	368,888	Aug. 23	2228	593	40	902
Harper, Aaron A. (See Gleason, Robert E., assignor.)						
Harper, George, and F. Hoover, assignors to Clough & Warren Organ Company, Detroit,						
Mich. Piano-case.....	372,616	Nov. 1	486	132	41	561
Harper, James, Chamois, Mo. Drain-plow.....	361,696	Apr. 26	1873	486	39	374
Harper, James M., Peoria, Ill. Tape-line case.....	375,420	Dec. 27	1784	467	41	1417
Harper, John E. (See Chartier, Melite E., assignor.)						
Harper, John M., <i>et al.</i> (See Rigby, Clark F., assignor.)						
Harper, Martin V., North Yakima, Wash. Ter. Windmill.....	367,975	Aug. 9	933	252	40	637
Harpst, John. (See Beaulieu, John, assignor.)						
Harrell, Arlando T., <i>et al.</i> (See Lamb, Salem T., assignor.)						
Harrell, Solomon J., Lampasas, Tex. Manure-distributor.....	360,877	Apr. 12	686	180	39	135
Harrigan, Cornelius, assignor to R. M. Bingham & Co., Rome, N. Y. Sleigh-coupling.....	367,808	Aug. 9	694	187	40	590
Harrigan, George W., Bangor, Me. Device for adjusting faucets in vessels.....	361,512	Apr. 19	1595	413	39	314
Harrington, Anna S. (See Woodward, William D., assignor.)						
Harrington, David, Worcester, Mass. Saw-filing machine.....	367,756	Aug. 2	608	{ 164 165	{ 40	565
Harrington, Gardner P. (See Darling and Bock, assignors.)						
Harrington, Gilbert H., <i>et al.</i> (See Caldwell, Homer M., assignor.)						
Harrington, Gilbert H., and W. A. Richardson, Worcester, Mass. Revolver.....	360,686	Apr. 5	410	105	39	77
Harrington, John, Coventry, county of Warwick, England. Chair.....	360,589	Apr. 5	289	70	39	55
Harrington, John, Coventry, county of Warwick, England, assignor, by mesne assign-						
ments, to Pope Manufacturing Company, Portland, Me. Velocipede.....	359,863	Mar. 22	2149	542	38	1328
Harrington, John, Coventry, county of Warwick, England, assignor, by mesne assign-						
ments, to Pope Manufacturing Company, Portland, Me. Spring.....	360,588	Apr. 5	287	70	39	55
Harrington, John, Coventry, county of Warwick, England, assignor, by mesne assign-						
ments, to Pope Manufacturing Company, Portland, Me. Seat for velocipedes.....	364,171	May 31	2992	777	39	1068
Harrington, John, Coventry, county of Warwick, England, assignor to W. H. Durfee,						
Providence, R. I. Chiming apparatus for clocks.....	372,849	Nov. 8	860	230	41	638
Harrington, John C. (See Williams, Alfred, assignor.)						
Harrington, Walter W., Carrollton, Ohio, assignor to S. S. White Dental Manufacturing						
Company, Philadelphia, Pa. Inhaler for anesthetics.....	374,831	Dec. 13	946	247	41	1241
Harris, Asa L. (See Harris, Sullivan, D., assignor.)						
Harris, Azariah B. (See Leve, Gustave, assignor.)						
Harris, Bradner L., Detroit, Mich., assignor of one-half to J. D. Lehmer, Cincinnati, Ohio.						
Grip for cable-railway cars.....	372,144	Oct. 25	2041	523	41	422
Harris Button Hole Attachment Company. (See Williams, Henry J., assignor.)						
Harris, Carleton C., Denver, Colo. Saw-set.....	355,692	Jan. 11	543	143	38	116
Harris, Charles R., Williamsport, Pa. Buckle.....	373,976	Nov. 29	2545	684	41	983
Harris, Charles R., assignor to himself and W. Silvermann, Williamsport, Pa. Suspender						
or other buckle.....	368,529	Aug. 16	1727	460	40	796
Harris, David, Oil City, Wis. Saw-guide.....	360,878	Apr. 12	688	180	39	135
Harris, Ernest A., Mechanic Falls, Me. Machine for cutting veneers.....	374,598	Dec. 13	624	162	41	1176
Harris, Frank H., Toledo, Ohio. Wheel.....	369,850	Sept. 13	744	199	40	1184
Harris, Frank H., Toledo, Ohio. Vehicle-wheel.....	371,580	Oct. 18	1195	311	41	251
Harris, Frederick, <i>et al.</i> , executors. (See Osborne, David M.)						
Harris, George E., Lawrenceville, Pa. Vehicle-spring.....	361,697	Apr. 26	1874	486	39	374
Harris, George G., <i>et al.</i> (See Pfister, Lewis, assignor.)						
Harris, George G., Martinsville, Ohio. Buggy-seat.....	362,275	May 3	290	80	39	530
Harris, George P., Chicago, Ill. Still.....	368,208	Aug. 16	1259	336	40	706

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Harris, Henry I., Islington, county of Middlesex, assignor to J. J. Walsh, London, England. Galvanic battery	367,294	July 26	2137	575	40	427
Harris, James, Cincinnati, Ohio. Soap-stamping machine	358,117	Feb. 22	1999	526	38	815
Harris, James, Xenia, Ohio. Folding ladder	363,634	May 24	2225	576	39	917
Harris, James C., Dayton, Ohio. Safe-lock	364,922	June 14	1032	{ 270 271	{ 39	1288
Harris, James H., and W. Pool, Pittsville, Mo. Jump-gate	358,740	Mar. 1	469	{ 114 115	{ 38	991
Harris, James M., Memphis, Tenn. Hay or straw elevator	373,526	Nov. 22	1909	506	41	853
Harris, John, Lansingburg, N. Y. Mop-wringer	355,522	Jan. 4	295	79	38	59
Harris, John W., <i>et al.</i> (See McCloskey, Edward, assignor.)						
Harris, Levi, Kalamazoo, Mich. Fire-ladder	363,066	May 17	1420	376	39	752
Harris, Levi A. (See Haltom, Jesse C., assignor.)						
Harris, Malcolm L., Chicago, Ill. Permutation-lock	370,056	Sept. 20	1076	284	40	1252
Harris, Noah, Vincennes, Ind. Screw-plate	369,002	Aug. 30	2397	637	40	943
Harris, Oliver P., <i>et al.</i> (See Lundin, Robert E., assignor.)						
Harris, Orrin C., Newport, N. Y. Convertible chair	355,819	Jan. 11	733	191	38	151
Harris, Orrin C., Newport, N. Y. Label-holder for cars	365,378	June 28	1723	446	39	1437
Harris, Robert L., Brooklyn, N. Y. Railway-rail	357,316	Feb. 8	832	217	38	584
Harris, Robert L., Brooklyn, N. Y. Electric conduit	358,609	Mar. 1	291	69	38	957
Harris, Samuel, Chicago, Ill. Ratchet-drill	371,452	Oct. 11	1012	263	41	206
Harris, Son & Company, A. (See Wedlake, James, assignor.)						
Harris, Sullivan D., assignor of one-half to A. L. Harris, Atlanta, Ga. Automatic feed for rock-drills	366,581	July 12	1136	304	40	226
Harris, Thomas A. (See Perrins, Thomas, assignor.)						
Harris, Virgil M., St. Louis, Mo. Pen-holder	365,810	July 5	72	21	40	15
Harris, W. W. H. (See Bowling, Donald E., assignor.)						
Harris, W. Haml. (See Martin and Harris.)						
Harris, W. John, St. Louis, Mo. Pneumatic cabinet	365,067	June 21	1259	332	39	1339
Harris, William H., and J. C. Kafer, Washington, D. C. Attachment for boiler-furnaces	373,557	Nov. 22	1950	517	41	859
Harrison, Alvin F. (See Decanniere and Harrison.)						
Harrison, Frederick J., Notting Hill, county of Middlesex, England. Cleansing compound or soap	355,523	Jan. 4	296		38	59
Harrison, Henry, Chicago, Ill. Recording-scale	360,220	Mar. 29	2724	{ 689 690	{ 38	1440
Harrison, Hiram. (See Scribner, Jerry B., assignor.)						
Harrison, James M., Easton, Pa. Hat-holder	369,786	Sept. 13	644	174	40	1165
Harrison, James M., Easton, Pa. Hat-holder	370,618	Sept. 27	1905	506	40	1414
Harrison, James R. (See Weber and Harrison.)						
Harrison, John, Careby, Stamford, county of Lincoln, England, assignor to W. A. Wood Mowing and Reaping Machine Company, of New York. Grain-binding harvester	362,004	Apr. 26	2327	607	39	454
Harrison, John B., Cincinnati, Ohio. Means for raising liquids	364,512	June 7	430	116	39	1169
Harrison, Leonard D., New Haven, Conn. Grinding-mill	357,925	Feb. 15	1713	447	38	758
Harrison Machine Works. (See Buchanan, William C., assignor.)						
Harrison, Nathan, Montclair, N. J. Cartridge-loading machine	365,919	July 5	230	61.62	40	45
Harrison, Shelton C., Rocky Mount, Va. Churn-dasher	363,231	May 17	1642	431	39	796
Harrison, Thomas W., Emmetsburg, Iowa. Car-coupling	374,870	Dec. 13	1003	262	41	1250
Harriss, Edward, and J. N. Tiger, Waverly, Nebr. Cultivator attachment	370,537	Sept. 27	1780	475	40	1390
Harrod, Andrew C., Newville, Ind. Hand-rest for penmen	356,765	Feb. 1	32	10	38	429
Harrod, Sanford H., Canton, and S. T. Lamb, assignors of one-third to W. W. Borden, New Albany, Ind. Station-indicator	367,392	Aug. 2	51	13	40	460
Harry, Hugh W., Fort Worth, Tex. Metallic shingle	359,605	Mar. 22	1752	446	38	1257
Harryman, Sarah A., Sedalia, Mo. Foot-warmer for stoves	361,412	Apr. 19	1465	378	39	288
Harsen, George W., <i>et al.</i> (See Harsen, Marion A., assignor.)						
Harsen, Marion A., assignor to himself, G. W. Harsen, and C. N. Joiner, Hanna Station, Ind. Flying target	374,961	Dec. 20	1160	303	41	1289
Harsh, Samuel E., Wabash, Ind. Shaft-tug	372,973	Nov. 8	1040	279	41	670
Harsin, Charles D., Des Moines, Iowa. Device for transplanting trees	357,197	Feb. 8	678	175	38	555
Hart, Albert J. (See Fisher and Hart.)						
Hart, Charles L., assignor to E. W. Bliss Company, Brooklyn, N. Y. Die-press	372,262	Oct. 25	2216	567	41	456
Hart, Clarence R., Sioux City, Iowa. Cartridge-extracting implement	358,928	Mar. 8	763	190	38	1049
Hart Cycle Company. (See Hart, Harrie B., assignor.)						
Hart, Daniel B., Passaic, N. J. Sash-lock	360,015	Mar. 29	2397	607	38	1381
Hart, Daniel R., New York, N. Y. Screw-driver	370,255	Sept. 20	1354	362	40	1305
Hart, Eric C., Belmont, N. Y., and W. H. Castle, Geneva, Ohio. Head-rest	366,722	July 19	1343	359	40	271
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Stem-wind-ing watch	364,015	May 31	2777	719	39	1027
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Watch	364,105	May 31	2893	750	39	1050
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Stem-wind-ing watch	364,106	May 31	2894	751	39	1050
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Manufacture of watch-balances	364,107	May 31	2896	751	39	1050
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Manufacture of watch-case pendants	364,108	May 31	2896	751	39	1051
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Watch-dial	364,109	May 31	2898	752	39	1051
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Watch-movement plate	364,110	May 31	2899	752	39	1051
Hart, Harrie B., assignor to Hart Cycle Company, Philadelphia, Pa. Velocipede	363,518	May 24	2050	533	39	884
Hart, Henry C., assignor to Rapid Service Store Railway Company, Detroit, Mich. Store-service apparatus	362,443	May 3	519	145	39	575
Hart, Henry C., and H. Yoe; said Hart assignor to Rapid Service Store Railway Company, Detroit, Mich. Store-service apparatus	362,444	May 3	521	{ 145 146	{ 39	575
Hart, Hubert C., Unionville, Conn. Manufacture of table-knives	360,879	Apr. 12	689	181	39	135
Hart, Isaac C., Cincinnati, Ohio, assignor of one-half to W. D. McCracken, Sanford, Fla. Thill-coupling	359,387	Mar. 15	1392	356	38	1174
Hart, James, and T. E. Gaghan, Adrian, Mich. Car-coupling	355,524	Jan. 4	296	79	38	59
Hart, James F., and C. M. Hendry, Union Point, Ga. Railway-frog	375,627	Dec. 27	2077	540	41	1471
Hart, Joel T., Foster, Mo. Hay rake and loader	357,198	Feb. 8	679	175	38	556
Hart, John. (See Jones, George H., assignor.)						
Hart, John, <i>et al.</i> (See Isbell, Arista H., assignor.)						
Hart, John M., assignor of one-half to G. Lindner, Oswego, Kans. Hay-sling	360,689	Apr. 5	414	106	39	78
Hart, Maurice J., New Orleans, La. Support for electric conductors	368,766	Aug. 23	2063	{ 546 547	{ 40	869
Hart, Maurice J., New Orleans, La. Fire-escape and water-tower	373,658	Nov. 22	2095	560	41	889

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Hart, Robert C., Andrews, Ind. Hog-trap.....	364,923	June 14	1038	271	39	1289
Hart, Thomas F., Lynn, Mass., assignor to M. L. Hiller, New York, N. Y. Button-hole sewing-machine.....	363,821	May 31	2490	{ 646 647 }	{ 39 }	973
Hart, Thomas F., Lynn, Mass., assignor to M. L. Hiller, New York, N. Y. Button-hole sewing-machine.....	363,823	May 31	2494	647	39	974
Hart, Walter, East Orange, N. J. Hoisting-machine.....	372,908	Nov. 8	943	255	41	653
Hart, William H., Jr. (See Guilbert, J. Murray, assignor.)						
Hart, William H., Brooklyn, N. Y., assignor to W. H. Johnstone, Philadelphia, Pa. Sectional draw-rod for placing electric wires in underground conduits.....	373,289	Nov. 15	1526	{ 403 404 }	{ 41 }	769
Harter, Frederick O., and C. A. Parker, Ilion, N. Y. Type-writer cabinet.....	360,016	Mar. 29	2398	607	38	1381
Harter, Frederick O., and C. A. Parker, Ilion, N. Y. Cabinet for type-writers.....	363,460	May 24	1957	512	39	864
Harter, Jacob P., Herkimer, N. Y. Running-gear for vehicles.....	358,446	Mar. 1	32	9, 10	38	909
Hartford Carpet Company. (See Folsom, James L., assignor.)						
Hartford Carpet Company. (See Sherwood, Arthur K., assignor.)						
Hartford Heel Plate Company. (See Richards, Francis H., assignor.)						
Hartford Machine Screw Company. (See Johnston, John, assignor.)						
Hartman, S. Emerson, Worcester, Mass. Machinery for propelling and steering boats.....	366,662	July 19	1254	335	40	255
Hartigan, William R., Burlington, Conn. Egg-opener.....	355,316	Jan. 4	33	9	38	8
Hartis, Dallas W., and J. L. Rea, Charlotte, N. C. Combined disk-harrow and seeder.....	358,353	Feb. 22	2322	{ 615 616 }	{ 38 }	877
Hartle, Americus V., Goshen, Ohio. Neck-yoke and tongue-tip.....	374,248	Dec. 6	110	28	41	1068
Hartle, Americus V., Goshen, Ohio. Swinging stable-stall.....	374,249	Dec. 6	112	28	41	1068
Hartley, Bernard. (See Westinghouse, Bylesby, Shallenberger, Schmid, and Hartley.)						
Hartley, Charles J., assignor of two-thirds to J. K. Warren and B. K. Durfee, Decatur, Ill. Automatic grain-weighing machine.....	368,946	Aug. 30	2321	617	40	928
Hartley, Marcellus. (See Savage, Arthur W., assignor.)						
Hartley, William, Jr., Lonsdale, R. I. Dyeing apparatus.....	355,930	Jan. 11	910	237	38	185
Hartman, Arthur. (See McCollum, Milnes, and Hartman.)						
Hartman, Charles R., Vincennes, Ind. Spring hoe attachment for cultivators, seed-drills, &c.....	367,623	Aug. 2	387	109	40	525
Hartman, Jacob B., Wooster, Ohio. Blind.....	360,523	Apr. 5	192	47	39	38
Hartman, Jacob B., Wooster, Ohio. Sliding window-blind.....	368,530	Aug. 16	1728	460	40	796
Hartman, Jacob B., Wooster, Ohio. Window-blind.....	373,067	Nov. 15	1188	317	41	708
Hartman, John, Jr., Philadelphia, Pa. Electric railway.....	371,936	Oct. 25	1722	445	41	365
Hartman, John, Jr., Philadelphia, Pa. Rheostat.....	371,937	Oct. 25	1723	{ 445 446 }	{ 41 }	366
Hartman, Louis F., Cave Springs, Kans. Harrow and cultivator.....	370,138	Sept. 20	1202	318	40	1275
Hartman, Robert, and J. P. Frow, Connersville, Ind. Foot-warmer.....	372,145	Oct. 25	2043	523	41	422
Hartman Steel Company. (See Algeo, William G., assignor.)						
Hartman Steel Company. (See Hill, Christian C., assignor.)						
Hartman, Thomas H., Williamsport, Pa. Hammock.....	374,472	Dec. 6	431	112	41	1128
Hartman, William H., et al. (See Kittell, Ernest A., assignor.) (Reissue.)						
Hartmann, Christian W., Newark, N. J. Jewelry.....	367,976	Aug. 9	934	253	40	638
Hartmann, Paul, Heidenheim, Germany. Wood-wool wadding.....	358,610	Mar. 1	292	70	38	957
Hartmann, Wilhelm E. A., Belleville, Ill. Petroleum-lamp.....	369,598	Sept. 6	389	108	40	1109
Hartrup, George. (See Hartrup, William J., W., and G.)						
Hartrup, Walter. (See Hartrup, William J., W., and G.)						
Hartrup, William J., W., and G., Tidionte, Pa. Stump-puller.....	361,943	Apr. 26	2229	580	39	439
Hartshorn, Henry A. (See Kelsey and Hartshorn.)						
Hartshorne, H. G., et al. (See Howe, Patrick, assignor.)						
Hartsough, Leman C., Galion, Ohio. Spark-arrester.....	369,934	Sept. 13	883	234	40	1210
Hartwell, George M. (See Richmond, William U., assignor.)						
Hartz, Mathew, Pittsburg, Pa. Car-coupling.....	360,687	Apr. 5	411	{ 105 106 }	{ 39 }	77
Harvell, Jacob, Raymond, Ill. Rat-trap.....	364,924	June 14	1039	271	39	1289
Harvey, De Witt B., Troy, Pa. Halter-trimming.....	374,832	Dec. 13	948	247	41	1241
Harvey, George, Winnipeg, Manitoba, Canada. Car-seat.....	358,266	Feb. 22	2204	581	38	854
Harvey, George, Winnipeg, Manitoba, Canada. Car-seat.....	360,961	Apr. 12	812	{ 208 209 }	{ 39 }	156
Harvey, George, Winnipeg, Manitoba, Canada. Apparatus for cleaning chimneys.....	363,893	May 31	2588	672	39	991
Harvey, Hayward A., Orange, N. J. Machine for rolling screws.....	357,001	Feb. 1	359	95, 96	38	489
Harvey, Hayward A., Orange, N. J. Machine for rolling screws.....	357,002	Feb. 1	362	96	38	489
Harvey, Hayward A., Orange, N. J., assignor to American Screw Company, Providence, R. I. Wood-screw.....	362,833	May 10	1085	294	39	682
Harvey, James, et al. (See Davis, Samuel, assignor.)						
Harvey, Patrick, Chicago, Ill. Closet-flushing valve.....	369,003	Aug. 30	2398	637	40	943
Harvey, Patrick, Chicago, Ill. Tank-operating connection for stop and waste valves.....	372,617	Nov. 1	488	132	41	562
Harvey, Patrick, Chicago, Ill. Closet flushing-valve.....	375,353	Dec. 27	1697	446	41	1400
Harvey, Sylvanus D. (See Hale and Harvey.)						
Harvey, William, assignor of one-half to H. F. McLachlin, Arnprior, Ontario, Canada. Feed-roll for gang-saws.....	358,550	Mar. 1	206	48	38	941
Harvey, William T., assignor of one-half to R. B. Pumphrey, Baltimore, Md. Machine for dressing stone.....	371,885	Oct. 18	1648	{ 425 426 }	{ 41 }	342
Harvey, Wirt B., Memphis, Tenn. Electrical distribution.....	357,280	Feb. 8	784	203	38	575
Harvey, Wirt B., Memphis, Tenn. Secondary electric clock.....	360,092	Mar. 29	2521	642	38	1404
Harwood, Alphranzo A., Scottdale, Pa. Apparatus for generating gas.....	356,247	Jan. 18	1359	359	38	275
Hasbrouck, Cornelius J., New York, N. Y. Folding box.....	367,624	Aug. 2	389	110	40	526
Hasbrouck, Cornelius J., New York, N. Y. Machine for making envelopes and similar receptacles.....	370,868	Oct. 4	173	46	41	34
Hascall, Samuel E., Enfield, Conn. Machine for granulating tobacco-stems.....	357,317	Feb. 8	833	217	38	585
Haseltine, S. A., et al. (See Bartlett, Henry F., assignor.)						
Haseltine, S. A., et al. (See Seiler, Charles, assignor.)						
Haseltine, S. A. & S. C., et al. (See Bartlett, Henry F., assignor.)						
Haseltine, S. C., et al. (See Bartlett, Henry F., assignor.)						
Haselton, Charles W., Haverhill, Mass. Seam-pressing machine.....	366,582	July 12	1137	{ 304 305 }	{ 40 }	226
Haselton, Charles W., Peterborough, N. H., assignor of one-half to H. Fellows, Haverhill, Mass. Device for packing boot and shoe uppers.....	357,556	Feb. 8	1184	311	38	651
Haselton, Charles W., and G. P. Felt, Peterborough, N. H. Seam-pressing machine.....	357,482	Feb. 8	1062	281	38	628
Haselton, Daniel B., Charleston, S. C. Machine for cutting teeth in wire and winding the same upon a cylinder.....	369,851	Sept. 13	745	{ 199 200 }	{ 40 }	1184
Haselton, Daniel B., assignor to Southern Cotton Picking Company, Charleston, S. C. Cotton-harvester.....	364,759	June 14	791	209	39	1244
Haselton, Daniel B., assignor to himself and H. F. Welch, Charleston, S. C. Starting attachment for sewing-machines.....	367,910	Aug. 9	836	225	40	619

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Hasenbach, Wilhelm, Mannheim, Germany. Recovery of tin from scraps of tinned plate..	363,136	May 17	1516		39	771
Haskell, Benjamin C., Arlington, Mass. Card or label holder.....	370,782	Oct. 4	47	12	41	11
Haskell, Edward H., Gloucester, Mass. Twine.....	367,295	July 26	2139	575	40	427
Haskin, Chancey C., Waltham, Iowa. Car-coupling.....	359,785	Mar. 22	2022	512	38	1305
Haskins, Albert F., and T. B. Cox, Kinston, N. C. Shell-crimper.....	372,466	Nov. 1	270	75	41	522
Haskins, David G., Cambridge, Mass. Propelling-wheel for vessels.....	362,508	May 10	618	174	39	592
Haslem, James, Howell, Dak. Ter. Plate-glass polisher. (Reissue)	10,872	Oct. 11	1126	293	41	229
Hasler, John E., New York, N. Y., and A. F. Haberl, Denver, Colo. Pin-tongue for breast-pins.....	359,320	Mar. 15	1280	332	38	1154
Haslup, William, Sidney, assignor of one-half to J. H. Doering, Wapakoneta, Ohio. Sled.....	372,974	Nov. 8	1041	279	41	670
Haslup, William, Sidney, assignor of one-half to J. H. Doering, Wapakoneta, Ohio. Scraper.....	372,975	Nov. 8	1042	279	41	671
Hassel, Richard, Burlington, Iowa. Hame-tug.....	374,962	Dec. 20	1162	303	41	1289
Hassenpflug, Henry, Huntingdon, Pa. Washing-machine.....	360,688	Apr. 5	412	106	39	77
Hastings, Charles F., et al. (See Munroe, Cirthbert C., assignor.)						
Hastings, Ephraim D., Pataha City, Wash. Ter. Washing-machine.....	370,391	Sept. 27	1556	417	40	1351
Hastings, Fred J., and H. S. Littlefield, Haverhill, Mass. Boot or shoe.....	370,783	Oct. 4	48	12	41	12
Hastings, Matthew E., New York Mills, N. Y. Bee-feeder.....	371,581	Oct. 18	1196	311	41	251
Hastings, Michael, Brooklyn, N. Y. Steam-actuated valve.....	368,209	Aug. 16	1261	336	40	706
Hastings, Walter W., Jersey City, N. J., assignor to New York Standard Watch Company, of New York. Stem-winding watch.....	365,595	June 28	2049	535	39	1501
Hasty, James P., and G. L. Hise, Honey Grove, Tex. Planter.....	355,525	Jan. 4	298	79	38	60
Hat Machine Company. (See Campbell, Andrew, assignor.)						
Hat Sweat Manufacturing Company. (See Morehouse, Aaron, assignor.)						
Hatch, Andrew J., San Francisco, Cal. Fruit-drier.....	371,684	Oct. 18	1343	{ 347 348 }	{ 41 }	281
Hatch, Charles D., et al. (See Parmenter, Orville L., assignor.)						
Hatch, Edward W. (See Curtis and Hatch.)						
Hatch, Frank, assignor of one-half to B. E. Edwards, La Crosse, Wis. Nut-lock.....	362,742	May 10	958	260	39	659
Hatch, Ira D. (See Allen and Hatch.)						
Hatcher, Edmund N., Columbus, Ohio. Axle-skein.....	374,473	Dec. 6	432	113	41	1128
Hatcher, Joseph A., Neodesha, Kans. Adjustable lambrequin, curtain, and shade support..	361,513	Apr. 19	1597	414	39	314
Hatcher, Manning F. (See Riehlé and Hatcher.)						
Hatcher, Marshall J., Macon, Ga. Car-axle.....	366,953	July 19	1645	441	40	328
Hatcher, Marshall J., Macon, Ga. Running-gear for wagons.....	371,061	Oct. 4	471	118	41	93
Hatcher, Marshall J., Macon, Ga. Plow.....	373,829	Nov. 29	2340	628	41	944
Hatcher, Simeon J. (See Stoner, Hatcher, and Carroll.)						
Hatcher, William C., Norborne, Mo. Device for teaching penmanship.....	364,249	June 7	67	20	39	1101
Hatchman, Horace, St. Louis, Mo. Stove-grate.....	360,690	Apr. 5	415	107	39	78
Hatfield, Charles B., Rochester, N. Y. Scalloping-machine.....	372,618	Nov. 1	490	{ 132 133 }	{ 41 }	562
Hatfield, Charles B., assignor to Rochester Shoe Machinery Company, Rochester, N. Y. Scalloping-machine.....	372,413	Nov. 1	192	54	41	506
Hatfield, Charles B., assignor, by mesne assignments, to Rochester Shoe Machinery Company, Rochester, N. Y. Skiving-machine.....	363,461	May 24	1960	513	39	864
Hatfield, Charles B., and A. Sorge, Jr.; said Hatfield assignor to Rochester Shoe Machinery Company, Rochester, N. Y. Button and button-hole marking machine.....	365,126	June 21	1350	357	39	1354
Hatfield, James F., et al. (See Bales, Thomas M., assignor.)						
Hatfield, James F., Dublin, Ind. Grain-separator.....	373,737	Nov. 22	2200	588	41	911
Hatfield, Patrick J., assignor to H. H. Littell and J. O. Haddox, Louisville, Ky. Driver's seat.....	369,178	Aug. 30	2636	{ 699 700 }	{ 40 }	991
Hathaway, Albert E., Needham, Mass. Burglar-alarm.....	368,336	Aug. 16	1447	384	40	743
Hathaway, Otis L., et al. (See Hawley, William S., assignor.)						
Hatten, Albert, et al. (See Bowers, La Mont M., assignor.)						
Hatter, Charles A., Greenfield, Ohio. Mechanical device.....	357,596	Feb. 15	1248	328	38	673
Hatz, Casper, et al. (See Girtanner, Fred, assignor.)						
Hatz, Florian J., et al. (See Girtanner, Fred, assignor.)						
Haubtman, Leon F., New Orleans, La. Defecator for cane-juice.....	366,830	July 19	1484	396	40	296
Hauck, David A. (See Ringrose and Hauck.)						
Hauck, Eduard, Frankfort-on-the-Main, Germany. Holder for trousers.....	364,346	June 7	190	53	39	1125
Hauff, Peter J. (See Swin and Carr, assignors.)						
Haughawout, Joseph H., and W. S. Hogoboom, Fairmont, Nebr. Sash-holder.....	366,723	July 19	1344	359	40	279
Haupt, Charles E., St. Paul, Minn. Car-coupling.....	369,935	Sept. 13	884	234	40	1210
Hauschel, Théodore, Reims, France. Apparatus for dyeing, &c.....	362,620	May 10	783	215	39	626
Hauser, Horace L., Minneapolis, Minn. Pump for emptying cans.....	364,819	June 14	889	234	39	1261
Hauser, John A., Jr., and J. A. Ritzler, assignors to themselves and C. E. Ritzler, Dayton, Ohio. Ambulance-spring.....	359,388	Mar. 15	1393	356	38	1174
Hauss, David J., assignor to Hauss Electric Manufacturing Co., Cincinnati, Ohio. Arc lamp.....	369,640	Sept. 6	456	128	40	1121
Hauss Electric Manufacturing Co. (See Hauss, David J., assignor.)						
Hauxhurst, George W. (See Turner, Lewis W., assignor.)						
Havanagh, Bernard, New York, N. Y. Floor-connection for water-closets.....	363,956	May 31	2696	698	39	1010
Havell, George, Newark, N. J. Manufacture of knife blades and bolsters.....	373,527	Nov. 22	1911	507	41	853
Haven, Albert C. (See Knaggs, John W., assignor.)						
Haven, Alphonzo, Brockton, Mass. Boot or shoe.....	366,095	July 5	468	127	40	88
Havens, Andrew J., Stanton, Mich. Jar-closure.....	366,663	July 19	1257	336	40	255
Havens, William R., Denver, Colo. Frictional gear for transmission of power.....	362,743	May 10	959	261	39	659
Haviland, William W., Plainfield, Mich. Lamp trimmer and extinguisher.....	358,199	Feb. 22	2121	560	38	839
Havlin, John L., assignor of one-half to H. C. Stewart, Cincinnati, Ohio. Satchel-bottom bag.....	363,232	May 17	1643	432	39	796
Hawes, Willard L. (See Warren, John B., assignor.)						
Hawk, John A., et al. (See Richards, Philip, assignor.)						
Hawkenson, Nels W., Litchfield, Minn. Cloth-measuring machine.....	357,672	Feb. 15	1362	358	38	692
Hawkenson, Nels W., Litchfield, Minn. Thill-coupling.....	366,314	July 12	774	209	40	154
Hawkes, Adolphus F. (See Hawkes, William A. and A. F.)						
Hawkes, John M., et al. (See Fahnestock, John, assignor.)						
Hawkes, John M., New York, N. Y. Metallic printing-block.....	369,521	Sept. 6	282	78	40	1088
Hawkes, Thomas G. (See Haines, Robert, assignor.)						
Hawkes, William A. and A. F., Sandy Hill, N. Y. Extension-ladder.....	371,453	Oct. 11	1013	264	41	206
Hawkes, William H., Boston, Mass. Compound for treating coal and other fuel.....	358,200	Feb. 22	2121	.....	38	839
Hawkey, John R., Park Hill, Ontario, Canada. Road-sulky.....	373,738	Nov. 22	2202	589	41	911
Hawkins, Andrew J., and J. W. Wilkins, Dallas, Tex. Car-axle bearing.....	366,315	July 12	775	209	40	154
Hawkins, Charles D., New Iberia, La. Clothes-drier.....	357,926	Feb. 15	1714	447	38	758
Hawkins, Charles H., assignor of one-half to G. W. Schooley, Alliance, Ohio. Combined wash-stand and bracket.....	368,830	Aug. 23	2149	569	40	885

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Hawkins, J. Wesley, Kent, Ohio. Lifting-jack.....	361,944	Apr. 26	2230	580	39	439
Hawkins, John T., Taunton, Mass. Perfecting printing-machine.....	357,927	Feb. 15	1715	{ 448 449 }	{ 38 38 }	759
Hawkins, John T., Taunton, Mass. Alberttype-printing machine.....	358,661	Mar. 1	357	85	38	970
Hawkins, John T., Taunton, Mass. Oscillating-cylinder printing-machine.....	359,442	Mar. 15	1467	{ 375 376 }	{ 38 38 }	1188
Hawkins, John T., Taunton, Mass. Detachable gripper for printing-machines.....	359,864	Mar. 22	2150	542	38	1328
Hawkins, John T., Taunton, Mass. Securing curved form-plates in rotary printing-machines.....	361,821	Apr. 26	2048	533	39	405
Hawkins, John T., Taunton, Mass. Feed-guide for printing-machines.....	365,127	June 21	1351	358	39	1355
Hawkins, Nathan H., North Branch, Kans. Washing-machine.....	363,462	May 24	1961	513	39	865
Hawkins, Nehemiah, Brooklyn, N. Y. Binder.....	372,467	Nov. 1	271	75	41	522
Hawkins, R. F., trustee. (See Barrett, Charles E., assignor.)						
Hawkins, R. F., trustee. (See Barrett, Sidney H., assignor.)						
Hawkins, Randall, assignor of one-half to G. A. Miller, Hamilton, Ohio. Harness attachment.....	370,943	Oct. 4	304	74	41	60
Hawkins, Robert B., Martindale, assignor of one-half to T. J. White, San Marcos, Tex. Rotary bushing-machine.....	375,154	Dec. 20	1437	376	41	1341
Hawkins, Thomas, San Francisco, Cal. Dress-cutting chart.....	362,378	May 3	428	119	39	558
Hawkins, Westel E., assignor to Simpson, Hall, Miller & Company, Wallingford, Conn. Covered dish.....	364,016	May 31	2778	719	39	1028
Hawkins, Westel E., assignor to Simpson, Hall, Miller & Company, Wallingford, Conn. Covered dish.....	365,596	June 28	2050	535	39	1502
Hawks, Charles W., and G. H. Warren, Shelburne Falls, Mass. Letter-file.....	365,597	June 28	2052	535	39	1502
Hawley, Abram T., Waterford, N. Y. Dental flask.....	365,811	July 5	72	21	40	15
Hawley, Alonzo B., Detroit, Mich. Alarm-clock.....	360,346	Mar. 29	2904	740	38	1474
Hawley, Charles P., New York, N. Y. Ferrule or like article.....	375,487	Dec. 27	1873	489	41	1435
Hawley, Eli J., Manchester, Vt. Centrifugal pump.....	367,911	Aug. 9	837	225	40	619
Hawley, Theodore, assignor of one-half to Fairfield Rubber Company, Fairfield, Conn. Machine for joining pieces of rubber cloth.....	371,315	Oct. 11	825	211	41	169
Hawley, Thomas. (See Clark, Frank M., assignor.)						
Hawley, William S., assignor of two-thirds to O. L. Hathaway and E. Evans, Eagle Grove, Iowa. Hame-tug coupling.....	368,919	Aug. 23	2278	606	40	911
Hawliczek, Josef, assignor to himself and N. Mathieson, Liverpool, county of Lancaster, England. Manufacture of bicarbonate of soda.....	357,824	Feb. 15	1587	.....	38	735
Hawxhurst, George W., Paterson, N. J. Whiffletree-hook.....	369,110	Aug. 30	2555	679	40	973
Hawyer, Oscar S., Truxton, N. Y. Railway-crossing frog.....	375,550	Dec. 27	1964	511	41	1452
Haxton, Benjamin F. (See Marx, Andrew, assignor.)						
Haxton Steam Heater Company. (See Sandford, William B., assignor.)						
Hay, Ellwood, assignor to himself and H. F. Seip, Easton, Pa. Hydraulic motor.....	358,777	Mar. 1	520	127	38	1000
Hay, John A., New Goshen, Ind. Fence.....	370,256	Sept. 20	1355	362	40	1305
Hay, John F., assignor to Lovell Manufacturing Company, (limited,) Erie, Pa. Animal-trap.....	370,700	Sept. 27	2026	539	40	1437
Hay & Todd Manufacturing Company. (See Kneip, William F., assignor.)						
Haycock, Caroline, Baltimore, Md. Cough remedy.....	370,191	Sept. 20	1278	.....	40	1290
Hayden, Augustus C., and C. J. Powell, Gardner, Kans.; said Powell assignor to said Hayden. Wheel-plow.....	355,607	Jan. 4	401	109	38	80
Hayden, Henry W. (See Gienty, Daniel P., assignor.)						
Hayden Saddlery Hardware Company. (See Knauss, Thomas E., assignor.)						
Hayden, William H., Jr., Columbus, Ohio. Trace-carrier.....	368,583	Aug. 23	1802	480	40	820
Haydock, Daniel W., St. Louis, Mo. Two-wheeled vehicle.....	365,437	June 28	1805	469	39	1453
Haydon, Frederick, assignor of one-half to W. H. Hockensmith, Bridgeport, Conn. Bag-holder.....	356,198	Jan. 18	1292	342	38	262
Hayes, Charles, assignor to J. Duggan, Dubuque, Iowa. Combined harrow and cultivator.....	357,928	Feb. 15	1721	449	38	759
Hayes, Edwin A., New York, N. Y. Oil-bag for distributing oil on water.....	371,194	Oct. 11	654	167	41	137
Hayes, Eugenio K., Galva, Ill. Device for laying and taking up corn-planter check-row lines.....	358,354	Feb. 22	2324	616	38	877
Hayes, George W., Goshen, Ind. Back-rest.....	371,062	Oct. 4	473	118	41	93
Hayes, Hammond V., Cambridge, Mass. Telephone.....	370,477	Sept. 27	1692	449	40	1375
Hayes, Henry T., East Oakland, Cal. Fire-ladder.....	365,128	June 21	1353	358	39	1355
Hayes, James A. (See McNally, Austin, assignor.)						
Hayes, James E., Lynn, Mass. Starching-machine.....	371,263	Oct. 11	751	193	41	156
Hayes, John W., Portsmouth, N. H. Automatic cut-off-valve gear.....	366,480	July 12	976	265	40	194
Hayes, Miles T., assignor of two-thirds to J. W. Wambold and W. A. Bennett, Burlington, Wis. Horse-collar fastener.....	361,357	Apr. 19	1396	359	39	275
Hayes, Thomas H. (See Steel, Robert, assignor.)						
Hayford, Henry B. (See Dils, Thomas M., assignor.)						
Hayna, Clementina J. M., St. Louis, Mo. Furnace.....	369,285	Aug. 30	2772	739	40	1017
Hayna, Clementina J. M., St. Louis, Mo. Steam-boiler.....	369,448	Sept. 6	190	54	40	1068
Haynes, Arthur M., St. Paul, Minn. Recording-kinometer.....	367,625	Aug. 2	390	110	40	526
Haynes, Charles W., assignor of three-fifths to J. Stettheimer, Jr., New York, N. Y. Bustle.....	361,762	Apr. 26	1963	512	39	389
Haynes, Cornelius E., assignor to A. L. Wood, trustee, Boston, Mass. Composition for rendering leather, cloth, &c., water-proof.....	374,675	Dec. 13	724	.....	41	1197
Haynes, Edgar K., Boston, assignor of one-half to G. Frost, G. H. Phelps, and G. A. Frost, Newton, Mass. Spring cuff-button.....	373,401	Nov. 15	1702	451	41	802
Haynes, Ervin W. (See Clark and Haynes.)						
Haynes, John M., Maxwell, Cal. Wrench.....	375,155	Dec. 20	1437	376	41	1341
Haynes, Nelson B., Chicago, Ill. Stand for displaying goods.....	366,316	July 12	776	209	40	155
Haynes, Warren H., assignor of one-half to D. M. Clifford, Boston, Mass. Truss suspension-bridge.....	360,347	Mar. 29	2907	740	38	1475
Haynes, William K., assignor to A. B. Reid, Chicago, Ill. Desk.....	365,005	June 14	1157	303	39	1311
Haynor, Thomas H., Portsmouth, Va. Lamp.....	366,954	July 19	1646	441	40	328
Hays, B. C. (See Cunningham, Fieldon B., assignor.)						
Hays, Frank, Ottumwa, Iowa. Horse-collar.....	358,855	Mar. 8	659	165	38	1030
Hays, Frederick P., Warren, Pa. Pressure reducing or regulating valve.....	371,063	Oct. 4	473	119	41	94
Hays, Joseph M., assignor to L. Miller, Akron, Ohio. Foundry apparatus.....	371,582	Oct. 18	1197	{ 311 312 }	{ 41 41 }	251
Haysler, Edward C. (See Coleman, Armentrout, and Sweitzer, assignors.)						
Hayton, James A., Milwaukee, Wis. Vehicle-shafts.....	366,831	July 19	1485	396	40	296
Hayward, Charles, Pine Lodge, near Shepparton, Victoria, Australia. Screen for winnowers.....	370,139	Sept. 20	1203	318	40	1276
Hayward, Francis D., Malden, Mass. Metal-plated rubber heel for boots or shoes.....	368,584	Aug. 23	1803	480	40	820
Hayward, Francis D., Malden, Mass. Manufacturing rubber heels.....	371,316	Oct. 11	826	211	41	170
Hayward, Samuel, Boston, Mass. Furniture.....	356,938	Feb. 1	268	74	38	470

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Hayward, Samuel, Boston, Mass. Furniture.....	363,389	May 24	1854	{ 487 488	{ 39	845
Hayward, Samuel, Boston, Mass. Chair.....	374,250	Dec. 6	113	28, 29	41	1068
Hayward, Samuel, Boston, Mass. Chair.....	374,251	Dec. 6	115	29	41	1069
Hayward, Samuel, Boston, Mass. Chair.....	375,448	Dec. 27	1826	477	41	1426
Hayworth, David M., Chicago, Ill. Shaft-covering.....	370,784	Oct. 4	49	12	41	12
Hazard, Henry T., Los Angeles, Cal. Cartridge-loading machine.....	358,035	Feb. 22	1868	494	32	792
Hazard, Rowland R., New York, N. Y. Railway-carriage.....	368,947	Aug. 30	2322	617	40	928
Hazazer, Edgar W., assignor to Hazazer & Stanley, New York, N. Y. Electric bell.....	362,005	Apr. 26	2330	607	39	445
Hazazer & Stanley. (See Hazazer, Edgar W., assignor.)						
Hazelrigg, Albert W., Indianapolis, Ind. Signal-lantern.....	362,509	May 10	620	175	39	598
Hazeltine, Ezra T., Warren, Pa. Book-folding machine.....	369,599	Sept. 6	393	109	40	1110
Hazeltine, Ezra T., J. J. Benzino, Warren, Pa., and F. A. Weld, Stanton, Nebr.; said Benzino and Weld assignors to said Hazeltine. Hand pasting-machine.....	362,006	Apr. 26	2331	608	39	455
Hazelton, George H., assignor of one-half to C. L. Collins, Boston, Mass. Tea or sugar caddy.....	372,263	Oct. 25	2217	568	41	456
Hazelton, James, New York, N. Y. Buckle.....	357,597	Feb. 15	1249	328	38	673
Hazen, Charles D., Martinsburg, N. Y. Device for bending wood.....	367,977	Aug. 9	934	253	40	638
Hazen, David H., and D. H. Kirkpatrick, Francesville, Ind. Fence-machine.....	367,393	Aug. 2	53	13	40	461
Hazen, James W., and C. F. Merrill, Woodstock, Vt. Tin-can machine.....	367,978	Aug. 9	936	253	40	638
Hazen, Loring L., Arcola, Ill. Machine for cutting metal.....	365,517	June 28	1929	502	39	1478
Hazen, William L., Newport, Ky., and G. H. Hildreth, Cincinnati, Ohio. Bicycle-brake ..	359,536	Mar. 15	1614	{ 413 414	{ 38	1216
Hazlett, Francis. (See Donovan, Hazlett, and Johnston.)						
Heagy, Theodore J., et al. (See Sweeney, Charles E., assignor.)						
Heavilin, Jeremiah, Des Moines, Iowa. Washing-machine.....	363,824	May 31	2495	648	39	974
Heald, Alfred, assignor of one-half to McCallum & Sloan, Philadelphia, Pa. Ingrain carpet.....	375,289	Dec. 20	1605	421	41	1374
Heald, John L., Crockett, Cal. Device for separating almonds from their hulls.....	372,146	Oct. 25	2043	523	41	422
Healy, Byron J., Kalamazoo, Mich. Two-wheeled vehicle.....	365,812	July 5	73	21	40	15
Healy, Byron J., Kalamazoo, Mich. Combined cart and buckboard.....	371,317	Oct. 11	827	211	41	170
Healy, Byron J., Kalamazoo, Mich. Two-wheeled vehicle.....	372,674	Nov. 8	580	158	41	590
Healy, Byron J., assignor to J. Galligan and F. N. Horn, Kalamazoo, Mich. Two-wheeled vehicle.....	364,714	June 14	716	191	39	1232
Healy, Clarence L. (See Mahnken and Healy.)						
Healy, Clarence L., Brooklyn, assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph.....	365,994	July 5	335	89	40	64
Healy, Clarence L., Brooklyn, assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph transmitter.....	366,166	July 5	561	151	40	106
Healy, Clarence L., Brooklyn, assignor to Commercial Telegram Company, New York, N. Y. Type-wheel for printing-telegraph receivers.....	366,628	July 12	1204	322	40	238
Healy, William J., Susquehanna, Pa. Locomotive driving-box cellar.....	360,437	Apr. 5	60	16	39	13
Hearn, George A., Jr., New York, N. Y. Dispensing apparatus for soda and mineral waters.....	360,221	Mar. 29	2727	{ 690 691	{ 38	1441
Hearn, James A. (See Closs and Hearn.)						
Heartt, Sidney P., et al. (See Ferguson and Cartner, assignors.)						
Heath, Abel G., New York, N. Y. Kerosene-lamp.....	359,968	Mar. 22	2314	582	38	1359
Heath, Alfred, Jersey City, N. J. Guard for windows and doors.....	361,514	Apr. 19	1598	414	39	314
Heath, George H. (See Smith, Thomas D., assignor.)						
Heath, George S., and A. F. Champlin, Hartford, Conn. Escapement-wheel.....	361,945	Apr. 26	2231	581	39	439
Heath, George S., and A. F. Champlin, Hartford, Conn. Watch arbor and pivot.....	361,946	Apr. 26	2232	5-1	39	439
Heath, John, and W. Frost, Burslem, county of Stafford, England. Blasting-cartridge.....	358,611	Mar. 1	293	70	38	958
Heatherly, Mitchell R., assignor of one-half to N. McMinn, Green River, N. C. Rein-holder.....	357,991	Feb. 15	1811	475	38	776
Heaton, Charles, Bainbridge, N. Y. Blasting-barrel for extracting tree-stumps.....	363,233	May 17	1645	432	39	796
Heaton, Charles, Bainbridge, N. Y. Copying or record book.....	364,715	June 14	717	191	39	1232
Heaton, Charles, Bainbridge, N. Y. Machine for molding emery or other plastic wheels ..	374,065	Nov. 29	2673	718	41	1009
Heaton, John S., Shelbyville, Ky. Gate.....	366,832	July 19	1486	397	40	296
Heatwole, Simeon H., Hinton, Va. Wind-wheel.....	359,443	Mar. 15	1471	376	38	1189
Hebbard, Albert H., Cleveland, Ohio. Machine for making targets.....	375,628	Dec. 27	2078	{ 540 541 542	{ 41	1472
Hebbard, Charles C., Cleveland, Ohio. Target-trap.....	371,839	Oct. 18	1575	407	41	328
Hebbard, Charles C., assignor to Cleveland Target Company, Cleveland, Ohio. Flying target.....	362,744	May 10	960	261	39	659
Hebbelynck, Paul, Ghent, Belgium. Doubling and twisting machine.....	361,588	Apr. 19	1706	441	39	334
Hebebrand, George, Cleveland, Ohio. Extension-table.....	373,068	Nov. 15	1190	317	41	708
Heber, Jackson, Brookville, Pa. Coupling for lead pipes.....	364,250	June 7	69	20	39	1102
Heberling, Henry, Jr. (See Heberling, William L. and H., Jr.)						
Heberling, William L., Bath, Ill. Metal roof.....	364,251	June 7	70	20	39	1102
Heberling, William L., Bath, Ill., and H. Heberling, Jr., Mount Pleasant, Ohio. Metal roof.....	358,856	Mar. 8	660	165	38	1030
Hebert, Joseph R., Brooklyn, N. Y. Button-hole attachment for sewing-machines.....	362,745	May 10	961	{ 261 262	{ 39	659
Hebert, Joseph R., Brooklyn, N. Y., assignor to Domestic Sewing Machine Company, of Ohio. Tuck-marking attachment for sewing-machines.....	370,869	Oct. 4	176	47	41	35
Heck, August, New York, N. Y. Artificial flower.....	370,140	Sept. 20	1204	318	40	1276
Heck, Nathaniel J. M., assignor of one-half to C. Krapf, Hazelton, Pa. Clothes-drier.....	366,096	July 5	469	127	40	88
Heckman, John H., Mauch Chunk, Pa. Grain-door fastener for railway-cars.....	362,890	May 10	1170	312	39	697
Hedges, Samuel, West Liberty, W. Va. Seat for wagons or agricultural machines.....	364,716	June 14	718	191	39	1232
Hedges, Samuel P., Greenport, N. Y. Potato-digger.....	365,379	June 28	1724	446	39	1438
Heebner, William D. (See Metz, Nathaniel, assignor.)						
Heermans, Thaddeus W., Chicago, Ill., assignor to Crane Elevator Company, of Illinois. Limit-stop for hoisting-drums.....	364,111	May 31	2900	752	39	1051
Heermans, Thaddeus W., Chicago, Ill., assignor to Crane Elevator Company, of Illinois. Elevator-valve controller.....	369,936	Sept. 13	885	235	40	1210
Heermans, Thaddeus W., Chicago, Ill., assignor to Crane Elevator Company, of Illinois. Means for controlling elevator-valves.....	369,937	Sept. 13	886	235	40	1210
Heffernan, Edward F., Toronto, Ontario, Canada. Watch-case.....	373,364	Nov. 15	1649	436	41	792
Heffernan, William J., St. Louis, Mo. Locomotive.....	355,608	Jan. 4	402	109	38	80
Hefflon, George S., Deep River, Conn. Running-gear.....	362,077	May 3	34	10	39	480
Heffner, George, Louisville, Ky. Nut-lock.....	361,515	Apr. 19	1599	414	39	315
Heffner, Samuel, and J. H. Phillips, Pottsville, Pa. Electric-circuit connection.....	371,840	Oct. 18	1576	407	41	328
Heffron, Patrick H. (See Wolfinger, Francis R., assignor.)						
Heginbotham, Samuel H., East Saginaw, Mich. Device for cleaning gun-barrels.....	363,137	May 17	1517	402	39	771

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Heidelberg, Anton C., <i>et al.</i> (See Muller, Ernest P., assignor.)						
Heidelberg, Isaac N., <i>et al.</i> (See Muller, Ernest P., assignor.)						
Heidenhain, Wilhelm, Graudenz, Prussia, Germany. Marking-wheel for transferring patterns.....	365,129	June 21	1354	358	39	1355
Heidland, Friedrich, St. Louis, Mo. Knockdown spiral stairway.....	367,296	July 26	2139	{ 575 576	{ 40	427
Heidmann, Gottlieb, E. Höttges and C. Egen, assignors to Heidmann & Höttges, Barmen, Prussia, Germany. Machine for manufacturing buttons.....	369,787	Sept. 13	646	{ 174 175	{ 40	1166
Heidmann, Gottlieb, E. Höttges, and C. Egen, assignors to Heidmann & Höttges, Barmen, Prussia, Germany. Button.....	375,629	Dec. 27	2082	542	41	1473
Heidmann & Höttges. (See Heidmann, Höttges, and Egen, assignors.)						
Heighway, Archibald E., Jr. (See Ide, John R., assignor.)						
Heilbrunn, Victor, Brooklyn, N. Y. File for letters, papers, bills, &c.....	360,348	Mar. 29	2908	741	38	1475
Heiler, George and H., West Earl, Pa. Nut-lock.....	367,809	Aug. 9	695	188	40	590
Heiler, Henry. (See Heiler, George and H.)						
Heilman, Otto, Tiffin, Ohio. Truck for handling pipe.....	372,976	Nov. 8	1043	280	41	671
Heilmann, Jean J. (See Winckler and Heilmann.)						
Heilmann-Ducommun, Paul, assignor to Heilmann-Ducommun & Steinlen, Mulhouse, Germany. Combing-machine.....	364,172	May 31	2993	{ 777 778	{ 39	1069
Heilmann-Ducommun, Paul, assignor to Heilmann-Ducommun & Steinlen, Mulhouse, Alsace, Germany. Machinery for combing fibrous substances.....	373,365	Nov. 15	1649	{ 437 438	{ 41	792
Heilmann-Ducommun & Steinlen. (See Heilmann-Ducommun, Paul, assignor.)						
Heim, Charles J. P., St. Louis, Mo. Cable railway.....	371,064	Oct. 4	475	119	41	94
Heine, August, Silver Creek, N. Y. Flour-bolt.....	355,526	Jan. 4	299	80	38	60
Heinecke, Martin, Carlinville, Ill. Straw-stacker.....	363,234	May 17	1645	{ 432 433	{ 39	797
Heinemann, Theodore W. (See Houtt and Heinemann.)						
Heinig, Frederick E., assignor to H. U. Frankel and D. J. Etly, Louisville, Ky. Paint-box..	363,894	May 31	2588	673	39	991
Heinig, Frederick E., and S. Leidigh, Louisville, Ky. Cork-retainer.....	357,825	Feb. 15	1588	412	38	735
Heinlen, Marion A., Lemoore, Cal. Stacker.....	372,147	Oct. 25	2044	523	41	423
Heins, John D., New York, N. Y. Bird-food.....	365,995	July 5	336		40	64
Heinsheimer, Jacob A., <i>et al.</i> (See Topmiller, Bennard, assignor.)						
Heintz, Fritiof, Rock Island, Ill. Glass-melting furnace and regenerator.....	362,961	May 17	1280	340	39	724
Heintzelman, Rush B., New York, N. Y. Inhaler.....	363,067	May 17	1422	376	39	752
Heinz, Frank, Atchison, Kans. Car-coupling.....	364,513	June 7	432	116	39	1169
Heinze, Charles E., Newark, N. J. Bridle-bit.....	360,296	Mar. 29	2843	723	38	1464
Heipershausen Brothers. (See Gregg, Howard, assignor.)						
Heiron, Alban, San Leandro, Cal. Trammel.....	365,181	June 21	1421	374	39	1368
Heise, Christian E. (See Scott, Heise, and Blossom.)						
Heisey, Augustus H., and J. E. Miller, Pittsburg, Pa. Leer for annealing glass.....	365,813	July 5	74	22	40	16
Heiskell, Jesse L. (See Ewig, John, assignor.)						
Heiss, Charles E., assignor of one-half to J. N. Raymond, Chicago, Ill. Mechanism for trimming the lateral edges of sheet-lead.....	362,621	May 10	785	215	39	626
Heiss, Charles E., assignor of one-half to J. N. Raymond, Chicago, Ill. Machine for cutting sheet-lead transversely.....	362,622	May 10	788	216	39	626
Heiss, Charles E., assignor of one-half to J. N. Raymond, Chicago, Ill. Apparatus for forming lead sash-weights.....	362,623	May 10	789	217	39	627
Heiss, Charles E., assignor of one-half to J. N. Raymond, Chicago, Ill. Apparatus for casting plumbers' traps.....	362,624	May 10	791	217	39	627
Heitkamp, Henry, Loganville, Wis. Churn.....	372,751	Nov. 8	688	190	41	610
Heitmann, Heinrich P., Ableman, Wis. Heating-drum.....	364,112	May 31	2902	{ 752 753	{ 39	1052
Heitmann, John H. (See Ewing and Heitmann.)						
Hektograph Company. (See Folmer, William F., assignor.)						
Helen, Gustav, Detroit, Mich. Razor-strop.....	368,667	Aug. 23	1914		40	841
Helfaer, Simon, Milwaukee, Wis. Glove or mitten.....	374,676	Dec. 13	724	190	41	1198
Helfenstein, John P., Jr., Webster Groves, Mo. Tennis-net.....	356,639	Jan. 25	1926	505	38	390
Helfrich, Jacob C. (See King, James M., assignor.)						
Hellebush, Clemens, Cincinnati, Ohio. Mold for clock-cases.....	369,337	Sept. 6	41	12	40	1042
Heller, Daniel C., Reading, Pa. Railway cross-tie.....	370,192	Sept. 20	1279	341	40	1290
Heller, Frank, Oakland City, Ind. Air-heater.....	368,767	Aug. 23	2064	547	40	869
Heller, Isaac, New York, N. Y. Traveling-bag.....	362,581	May 10	718	200	39	615
Heller, Peter J., Montclair, N. J. Potato-digger.....	359,606	Mar. 22	1753	446	38	1257
Heller, Robert, assignor of one-half to J. Schulze, Philadelphia, Pa. Match-box.....	356,405	Jan. 18	1583	416	38	318
Heller, William L., Fort Wayne, Ind., assignor to American Road Machine Company, Kennett Square, Pa. Speed attachment for road-grader wheels.....	356,584	Jan. 25	1841	483	38	374
Hellings, John, Philadelphia, Pa. Fastening for mail-bags.....	375,551	Dec. 27	1966	{ 511 512	{ 41	1452
Helliwell, George F., Minneapolis, Minn. Machine for fastening sacks.....	365,380	June 28	1725	446	39	1438
Helliwell, Thomas W., Brighouse, county of York, England. Metallic roofing.....	356,393	Jan. 18	1568	413	38	315
Helm, J. Henry, Allegheny City, Pa. Gas-regulator.....	370,619	Sept. 27	1906	506	40	1414
Helm, Julius, and W. H. Sweaney, Williamsburg, Va. Water-heater.....	361,516	Apr. 19	1600	414	39	315
Helme, Jeremiah E., Lowell, assignor of one-half to G. A. Byam, Chelmsford, and L. T. Trull, Lowell, Mass. Circular-knitting machine.....	375,156	Dec. 20	1438	{ 376 377	{ 41	1341
Helmer, Augustus, St. Elmo, Colo. Egg-carrier.....	359,927	Mar. 22	2247	565	38	1346
Helmer, Lorens P., Watsonville, Cal. Cultivator.....	367,519	Aug. 2	243	69	40	498
Helmer, Philip, Clinton, Iowa. Electro-magnetic dental mallet and plugger.....	368,948	Aug. 30	2323	618	40	928
Helming, Bernhard H., Milwaukee, Wis. Horse-collar.....	370,392	Sept. 27	1557	417	40	1351
Helms, E. H., <i>et al.</i> (See McCullough, David W., assignor.)						
Helms, Jacob H., assignor of one-half to J. S. Funderburk and J. E. Black, Matthews, N. C. Combined washing and wringing machine.....	360,524	Apr. 5	193	47	39	38
Helphinstine, Lon P. and W. A., Washington, Ind. Steering device for traction-engines..	364,411	June 7	285	79	39	1142
Helphinstine, William A. (See Helphinstine, Lon P. and W. A.)						
Hemje, Charles, Washington, D. C. Cash register and indicator.....	367,141	July 26	1905	{ 514 515	{ 40	383
Hemmenway, Eugene S., Boston, Mass. Bracket.....	364,514	June 7	433	116	39	1170
Hemmick, Thomas F., Reading, Pa. Puddling and heating furnace.....	371,454	Oct. 11	1013	264	41	206
Hempel, Frank M. H., Plattsmouth, Nebr. Corn-planter.....	357,199	Feb. 8	680	176	38	556
Hemphill, John, Jersey City, N. J. Machine for extracting fiber.....	370,393	Sept. 27	1558	{ 417 418	{ 40	1351
Henäcker, John E. (See Müller, John P., assignor.)						
Hendershot, James M., Atchison, Kans. Grain-cleaner.....	361,413	Apr. 19	1466	379	39	288
Hendershot, James M., Atchison, Kans. Machine for clearing railway-tracks of snow.....	361,626	Apr. 19	1770	{ 457 458	{ 39	347

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Henderson, Albert H. (See Ries, Elias, assignor.)						
Henderson, Charles C., Warren, Pa. Corn and seed planter.....	357,003	Feb. 1	365	97	38	490
Henderson, Charles C., Jamestown, N. Y. Seed-planter.....	369,286	Aug. 30	2773	{ 739 740 }	{ 40 }	1017
Henderson, George, Portland, Oreg. Windmill.....	372,148	Oct. 25	2045	524	41	423
Henderson, Henry A., Lynn, Mass. Boot or shoe heel.....	370,621	Sept. 27	1912	507	40	1416
Henderson, James D., Haven, Kans. Plow.....	369,788	Sept. 13	649	175	40	1166
Henderson, John W., Philadelphia, Pa. Switch and signal.....	370,620	Sept. 27	1908	507	40	1415
Henderson, Robert A. (See Casada and Henderson.)						
Henderson, William, <i>et al.</i> (See Clapp, E. Dwight, assignor.)						
Henderson, William M., Morton, Pa. Steam-engine.....	362,078	May 3	34	10	39	479
Hendra, John, and W. Gooding, Holloway, county of Middlesex, England. Tread of stairs, doorsteps, mats, &c.....	364,717	June 14	719	191	39	1232
Hendrick, Eli E., Carbondale, Pa. Coupling for joining pipes.....	365,068	June 21	1260	332	39	1339
Hendrick, Jerome A., assignor to G. W. Ingalls, Worcester, Mass. Octave-coupler.....	356,939	Feb. 1	269	75	38	471
Hendricks, Mary A., Charleston, S. C. Folding invalid-chair.....	364,412	June 7	287	79	39	1143
Hendrickson, Charles B. T., Frederick, Md. Adjustable swing.....	371,065	Oct. 4	476	{ 119 120 }	{ 41 }	94
Hendrickson, Joseph G. (See Clamer, Francis J., assignor.)						
Hendrix, Adam R. (See Mahan and Hendrix.)						
Hendron, James M. (See Wooldridge and Hendron.)						
Hendry, Charles M. (See Hart and Hendry.)						
Hendry, William. (See McCrosson and Hendry.)						
Hendy, John H. (See Hendy, Joshua and J. H.)						
Hendy, Joshua and J. H., San Francisco, Cal. Ore-feeder.....	365,518	June 28	1930	{ 502 503 }	{ 39 }	1478
Henesley, William F. (See Cole, Cary O., assignor.)						
Heney, William F., Montreal, Quebec, Canada. Rein-support.....	357,826	Feb. 15	1589	412	38	735
Henigan, Peter F., Pittston, Pa. Chute for cleaning coal.....	361,517	Apr. 19	1601	415	39	315
Henius, Max W., Bridgeport, Conn. Corset.....	368,286	Aug. 16	1389	366	40	731
Henius, Max W., Bridgeport, Conn. Making dress-forms.....	372,909	Nov. 8	945	255	41	654
Henkel, George, Springfield, Ohio. Combined pool-rack and ball-spotter. (Reissue).....	10,801	Jan. 25	2055	{ 539 540 }	{ 38 }	414
Henkle, Edward A. (See Fowler and Henkle.)						
Henkle, Leonard, Rochester, N. Y. Panel for doors.....	364,252	June 7	71	21	39	1102
Henkle, Leonard, Rochester, N. Y. Roofing.....	364,253	June 7	72	21	39	1102
Henkle, Leonard, Rochester, assignor to C. S. Upton, New York, N. Y. Lamp.....	365,996	July 5	336	89	40	64
Henley, John M., Straughn, Ind. Fence-machine.....	356,534	Jan. 25	1766	459	38	359
Henley, Micajah C., Richmond, Ind. Machine for boring, drilling, driving, and withdrawing screws, &c.....	371,195	Oct. 11	656	168	41	137
Henley, William, Alameda, assignor to Celery Beef and Iron Extract Company, San Francisco, Cal. Nutritive tonic.....	361,358	Apr. 19	1397	.....	39	275
Henn, Charles M., Chicago, Ill. Toy.....	368,831	Aug. 23	2150	569	40	885
Henne, Wilson H., and G. Tippin, Defiance, Ohio. Thill-coupling.....	370,785	Oct. 4	50	12	41	12
Henney, David. (See Freeman, Joseph, assignor.)						
Henney, John, Jr., New Haven, Conn. Heating device for railway-cars.....	373,659	Nov. 22	2095	560	41	889
Henney, John W. (See Nichols, Edward J., assignor.)						
Hennig, Albert F. B., and A. Rettig, Denver, Colo. Derailing and replacing attachment for street-cars.....	357,827	Feb. 15	1589	412	38	735
Henning, Susan A., Chicago, Ill. Bedclothes-holder.....	365,814	July 5	76	22	40	15
Henrichsen, Frederick J., Racine, Wis. Clutch.....	363,635	May 24	2226	577	39	917
Henricson, Christian, Ashland, Wis. Door-jamb.....	367,626	Aug. 2	393	110	40	526
Henrie, Daniel S. (See Allen and Henrie.)						
Henrikson, Carl P. (See Ross and Henrikson.)						
Henry, Charles V., assignor of one-half to A. T. Rowand, Pittsburg, Pa. Gas-furnace.....	373,018	Nov. 8	1113	296	41	683
Henry & Co., J. W. (See Henry, James W., assignor.)						
Henry, Fred H., Wakefield, Mass. Railway-car seat or settee.....	367,394	Aug. 2	54	14	40	461
Henry, H. E., <i>et al.</i> (See Vanover, Joseph M., assignor.)						
Henry, Hiram F., Gowanda, N. Y. Chimney-cap.....	361,871	Apr. 26	2134	553	39	420
Henry, Hiram F., Gowanda, N. Y. Folding stool.....	362,379	May 3	429	119	39	558
Henry, J. Joseph, Baltimore, Md. Soldering-tool.....	371,841	Oct. 18	1577	407	41	329
Henry, James, <i>et al.</i> (See Bonehill, Robert, assignor.)						
Henry, James W., Providence, R. I., assignor to J. W. Henry & Co. Cuff-holder.....	370,786	Oct. 4	51	13	41	12
Henry, John, New York, N. Y. Combined multiple galley and proof-press.....	358,857	Mar. 8	662	165	38	1030
Henry, John C., Beverly, N. J. Rein-holder.....	364,718	June 14	720	192	39	1232
Henry, John S., Stonington, Conn. Thread-cutting die and holder.....	374,599	Dec. 13	625	163	41	1176
Henry, John T., Hamden, Conn. Pruning-shears.....	371,756	Oct. 18	1449	374	41	303
Henry, Remi J., Jr., Jersey City, N. J., and H. K. Brown, Brooklyn, N. Y. Protector for the covers of books.....	368,889	Aug. 23	2229	593	40	902
Henry, Simon, Brooklyn, N. Y. Cigar-bunching machine.....	360,691	Apr. 5	416	107	39	78
Henry, Simon, Brooklyn, N. Y. Mold for measuring and partially shaping cigar-fillers.....	368,832	Aug. 23	2150	570	40	886
Henry, Simon, Brooklyn, N. Y. Cigar-bunching machine.....	372,414	Nov. 1	195	54, 55	41	506
Henschel, Louis. (See Lüders, Reinhold, assignor.)						
Henschel, Morris, New York, N. Y. Scarf.....	373,933	Nov. 29	2478	665	41	971
Henshaw, George W., Gridley, Cal. Gate.....	368,287	Aug. 16	1390	367	40	731
Henson, George N. (See Casada and Henderson, assignors.)						
Henssler, Charles, assignor to Trenton Lock and Hardware Company, Trenton, N. J. Latch.....	362,276	May 3	291	81	39	530
Henszey, William P., <i>et al.</i> (See Vauclain, Samuel M., assignor.)						
Henwood, John, assignor of one-half to J. C. Martin, Philadelphia, Pa. Coal or rock drill.....	358,036	Feb. 22	1870	{ 494 495 }	{ 38 }	793
Henzel, George L., San Francisco, Cal. Electric bolt-releasing device.....	358,975	Mar. 8	824	208	38	1061
Hepbron, Sewell S., Old Church, Va. Head-protector for horses.....	367,520	Aug. 2	245	70	40	498
Hepburn, Lewis L., assignor to Marlin Fire Arms Company, New Haven, Conn. Magazine-gun.....	371,455	Oct. 11	1016	264	41	207
Hepworth, John, Montreal, Quebec, Canada. Variable expansion-gear.....	363,825	May 31	2497	648	39	974
Hepworth, John, Montreal, Quebec, Canada. Variable-expansion gear.....	367,713	Aug. 2	552	151	40	555
Herbert, William G., Liverpool, county of Lancaster, England. Endless-belt bucket-elevator.....	358,551	Mar. 1	206	48	38	941
Herbert, William H., Hobart, Mich. Railway snow-plow.....	369,709	Sept. 13	547	{ 150 151 }	{ 40 }	1148
Herbertz, Friedrich A. (See Sahler, Charles, assignor.)						
Herbrand Company <i>et al.</i> (See Burdsall, Stephen, assignor.)						
Herby, Charles, Dayton, Ohio. Sash-cord fastener.....	367,100	July 26	1850	499	40	374
Herendeen, Edward W., Geneva, N. Y. Swing-tooth harrow.....	359,969	Mar. 22	2315	582	38	1359

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Herendeen, Edward W., Geneva, N. Y. Spring-tooth harrow.....	359,970	Mar. 22	2316	583	38	1359
Hering, Carl, Philadelphia, Pa. Secondary battery.....	372,468	Nov. 1	273	.....	41	522
Hering, Walter E., Philadelphia, Pa. Ticket.....	363,390	May 24	1855	488	39	846
Heringshausen, Friederich W., New York, N. Y. Sofa-bed.....	368,472	Aug. 16	1648	440	40	782
Herissé, Emile, Dalston, county of Middlesex, England. Machinery for piping or decorating biscuits, &c.....	369,789	Sept. 13	650	{ 175 176 177 }	{ 40 }	1166
Herrman, Charles, Allegheny City, Pa. Core-guide for sand molds.....	363,138	May 17	1518	402	39	772
Hermance, Richard M., Poughkeepsie, N. Y. Stove-damper.....	371,456	Oct. 11	1018	265	41	207
Hermance, Richard M., Poughkeepsie, N. Y. Stove or range.....	375,630	Dec. 27	2083	{ 542 543 }	{ 41 }	1473
Hermann, Samuel, Cincinnati, Ohio. Trunk.....	373,456	Nov. 22	1782	474	41	830
Hermann, Wilhelm, Hamburg, Germany, assignor, by mesne assignments, to J. J. Brinkerhoff, Auburn, N. Y. Clothes-wringer.....	365,006	June 14	1159	{ 303 304 }	{ 39 }	1311
Hern, Dennis J., et al. (See Coughlin, John J., assignor.)						
Hernandez, Eleuterio C., Boston, Mass. Velocipede.....	360,017	Mar. 29	2399	607	38	1381
Herndon, George P., Birmingham, Ala. Letter-sheet envelope.....	372,752	Nov. 8	689	190	41	610
Heron, Christopher, assignor of one-half to W. Ridd, Galena, Ill. Heel-die.....	362,380	May 3	431	120	39	558
Heron, Fred, assignor of one-half to Phoenix Iron Company, Phoenixville, Pa. Ingot-manipulator.....	368,395	Aug. 16	1523	407	40	758
Heron, Walter D., St. Louis, Mo. Fastening for neck wear.....	371,196	Oct. 11	658	168	41	138
Héroux, Joseph, Yamachiche, Quebec, Canada. Automatic gas-extinguisher.....	374,066	Nov. 29	2675	718	41	1009
Herquet, Joseph W., Altona, Prussia, Germany, assignor of one-half to I. Furth, Colon, United States of Colombia. Apparatus for indicating the direction of rotation of steam-engines.....	374,067	Nov. 29	2676	{ 718 719 }	{ 41 }	1010
Herr, Christian A. (See Schauer, George K., assignor.)						
Herr, Hiero B., Chicago, Ill. Dredging-machine.....	367,040	July 26	1753	{ 473 474 }	{ 40 }	356
Herr, Simon P. (See Morgan and Herr.)						
Herrberg, Charles J., assignor to Newark Machine Company, Columbus, Ohio. Lubricator for drilling-machines.....	373,830	Nov. 29	2342	628	41	944
Herrburger, Joseph, Paris, France. Action-rail for upright pianos.....	355,394	Jan. 4	134	36	38	28
Herrburger, Joseph, Paris, France. Damper for upright pianos.....	367,521	Aug. 2	245	70	40	498
Herreshoff, John B. F., assignor to himself, G. H. and W. H. Nichols, Brooklyn, N. Y. Concentrating sulphuric acid.....	357,528	Feb. 8	1133	296	38	642
Herreshoff, John B. F., assignor to himself, G. H. and W. H. Nichols, Brooklyn, N. Y. Apparatus for concentrating sulphuric acid.....	369,790	Sept. 13	652	177	40	1167
Herrick, Charles P. (See Herrick, George S., assignor.)						
Herrick, Frank J., assignor to North & Judd Manufacturing Company, New Britain, Conn. Horseman's spur.....	356,039	Jan. 11	1062	279	38	215
Herrick, George S., Syracuse, N. Y. Feed-water regulator.....	373,402	Nov. 15	1703	451	41	802
Herrick, George S., Syracuse, N. Y. Feed-water regulator.....	373,403	Nov. 15	1705	452	41	802
Herrick, George S., assignor of one-half to C. P. Herrick, Syracuse, N. Y. Knob attachment.....	363,743	May 24	2380	618	39	946
Herrick, J. F. (See Herrinton, Edward E., assignor.)						
Herrick, James A., and C. R. F. Topham, Brooklyn, N. Y., assignors to H. A. Gadsden, London, England. Gas-producer.....	360,222	Mar. 29	2730	{ 691 692 }	{ 38 }	1441
Herrick, Leroy F., Stockton, Cal. Whip.....	361,763	Apr. 26	1964	512	39	389
Herring, Frederick A., Reno, Nev. Ore-concentrator.....	359,674	Mar. 22	1845	468	38	1274
Herring, Henry M., assignor to O. M. Draper, North Attleborough, Mass. Watch-chain bar.....	358,858	Mar. 8	663	165	38	1031
Herring, Henry M., assignor to O. M. Draper, North Attleborough, Mass. Watch-chain hook.....	372,675	Nov. 8	581	158	41	590
Herrington, H. Herbert, Macon, Ga. Fan attachment for sewing-machines.....	373,366	Nov. 15	1653	439	41	793
Herrington, Jacob, Sharon, Pa. Electro-magnetic car-brake.....	367,627	Aug. 2	393	110	40	526
Herrinton, Edward E., Grand Rapids, Mich., assignor to J. F. Herrick, Cleveland, Ohio. Car-coupling.....	363,636	May 24	2228	577	39	917
Herrmann, Friedrich, New York, N. Y. Life-preserver.....	370,538	Sept. 27	1781	475	40	1391
Herron, John, Olney, Ill. Music-leaf turner.....	359,566	Mar. 15	1669	426	38	1226
Herron, William W., and A. B. White, assignors to Shellabarger Live Stock Car Company, (limited,) Washington, D. C. Stock-car.....	371,501	Oct. 11	1083	282	41	220
Herrström, Carl G., Mound Valley, Kans. Mold-board for plows.....	355,931	Jan. 11	912	238	38	185
Hersey Brothers. (See Hersey, Charles H., assignor.)						
Hersey Brothers. (See Hersey and Winton, assignors.)						
Hersey Brothers. (See Tilden, James A., assignor.)						
Hersey, Charles H., Boston, assignor to Hersey Brothers, South Boston, Mass. Steam-drier.....	360,525	Apr. 5	194	48	39	38
Hersey, Francis C., and H. D. Winton, Wellesley, assignors to Hersey Brothers, Boston, Mass. Machine for packing cube sugar in boxes.....	370,057	Sept. 20	1078	285	40	1252
Hersey Meter Company. (See Tilden, James A., assignor.)						
Hersh, Elmer E. (See Hersh, John R. and E. E.)						
Hersh, John R. and E. E., Dayton, Ohio. Show-case.....	371,457	Oct. 11	1018	265	41	207
Hershey, A. A., et al. (See Ferguson, Thomas, assignor.)						
Hershey, Martin E., Harrisburg, Pa. Traction-engine.....	367,912	Aug. 9	838	{ 225 226 227 }	{ 40 }	620
Hershey, Samuel, Allendale, Ill. Drag-saw.....	360,018	Mar. 29	2401	{ 607 608 }	{ 38 }	1382
Hertrampf, Otto, Breslau, Germany. Annular kiln for manufacturing bricks.....	365,997	July 5	337	89, 90	40	64
Hertz, William, Detroit, Mich. Saw-filing clamp.....	365,381	June 28	1726	447	39	1438
Hertzel, George W., Warren, Pa. Garden-rake.....	359,255	Mar. 15	1195	312	38	1138
Hervey, Frances P., Brenham, Tex. Cooking utensil.....	355,527	Jan. 4	300	80	38	61
Herz, Ludwig, Gmund, Bavaria, Germany. Tool for squaring mortises.....	364,647	June 14	618	166	39	1212
Herzberg, Aaron, New York, and A. W. Almquist, Brooklyn, N. Y.; said Almquist assignor to said Herzberg. Locking and delivering device for fare-boxes.....	360,692	Apr. 5	417	107	39	78
Herzog, Philip, Minneapolis, Minn. Vault-light.....	365,305	June 21	1599	416	39	1401
Hess, Charles, Bloomfield, N. J. Device for automatically blowing locomotive-whistles.....	369,852	Sept. 13	748	{ 200 201 }	{ 40 }	1185
Hess, Clarence D., assignor to C. G. Hess, New York, N. Y. Traveling-trunk.....	367,979	Aug. 9	937	{ 253 254 }	{ 40 }	638
Hess, Clarence G. (See Hess, Clarence D., assignor.)						
Hess, Daniel, Henderson, Tex. Cotton cleaner and condenser.....	368,087	Aug. 9	1087	289	40	666
Hess, Elmer E., Brook, Ind. Gate.....	362,962	May 17	1282	340	39	725
Hess, Elmer J., Cincinnati, Ohio. Vehicle-spring.....	373,831	Nov. 29	2342	629	41	944
Hess, Henry K., Bellaire, Ohio. Graining-machine.....	364,515	June 7	434	117	39	1170
Hess Jacob F., Massillon, Ohio. Blower for stoves and fire-places.....	358,447	Mar. 1	35	10	38	910

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Hess, Jacob F., F. H. Snyder, L. Hess, J. F. and C. F. Snyder, Massillon, Ohio. Stove....	356,686	Jan. 25	1980	520	38	401
Hess, John D., Abilene, Kans. Sash-balance	360,297	Mar. 29	2844	724	38	1464
Hess, John W. (See Potter and Hess.)						
Hess, Joseph T., Duffield's, W. Va. Corn-harvester	357,673	Feb. 15	1363	359	38	692
Hess, Lenerd. (See Hess and Snyder.)						
Hess, William, San Antonio, Tex. Stock-chute	365,998	July 5	338	90	40	65
Hess, William M. (See Potter and Hess.)						
Hessler, Jacob, assignor to W. W. Kimball Company, Chicago, Ill. Coupler for reed-organs.	357,598	Feb. 15	1250	328	38	673
Hessler, Jacob R., assignor to W. W. Kimball Company, Chicago, Ill. Cabinet-organ socket-board	369,938	Sept. 13	887	235	40	1211
Heston, Charles B., assignor to D. Heston & Sons, Philadelphia, Pa. Bottle-packing	373,019	Nov. 8	1114	296	41	683
Heston & Sons, David. (See Heston, Charles B., assignor.)						
Heston, William, and J. M. Akers, Alliance, Ohio. Chance device	369,404	Sept. 6	133	38	40	1057
Heston, William, and J. M. Akers, Alliance, Ohio. Fruit-jar	371,685	Oct. 18	1346	348	41	281
Hetrick, Russell D. (See Rowe and Hetrick.)						
Hetu, Arthur, Holyoke, Mass. Latch	362,079	May 3	35	11	39	480
Hetzler, Nathaniel M. (See Campbell and Hetzler.)						
Heuächer, John E. (See Müller, John P., assignor.)						
Hencham, Robert B., and S. A. Mason, Commerce, Mo. Burial-casket	361,518	Apr. 19	1602	415	39	315
Heully, George, New Orleans, La. Device for converting motion	374,677	Dec. 13	725	190	41	1198
Heunsch, Rudolph, assignor of one-half to A. H. Brown, Washington, D. C. Ice-creeper..	369,522	Sept. 6	284	79	40	1088
Heusler, Conrad, Bonn, Prussia, Germany. Producing silicious metals and utilizing the same for metallurgical purposes	358,662	Mar. 1	359	.....	38	970
Heusler, Conrad, Bonn, Prussia, Germany. Producing silicious metals and utilizing the same for metallurgical purposes. (Reissue)	10,852	July 19	1722	.....	40	342
Heusschen, Lucien G., Paris, France. Explosive compound	374,740	Dec. 13	814	.....	41	1215
Heusser, Albert. (See Kinsley, Nathaniel, assignor.)						
Heusser, Albert, Taylor, Nev. Whiffletree-coupling	359,018	Mar. 8	885	225	38	1072
Heverling, Charles E. (See Heverling, John B., assignor.)						
Heverling, John B., St. Louis, Mo. Cable-railway grip	374,963	Dec. 20	1163	304	41	1290
Heverling, John B., St. Louis, Mo. Cable railway	375,290	Dec. 20	1606	421	41	1374
Heverling, John B., assignor to C. E. Heverling, St. Louis, Mo. Cable railway	368,668	Aug. 23	1915	509	40	841
Hewes, John, Leicester, England. Cremator or apparatus for burning refuse	371,842	Oct. 18	1577	408	41	329
Hewes, Lester W., assignor to Excelsior Iron Works, Chicago, Ill. Crushing-machine ..	356,876	Feb. 1	191	52, 53	38	457
Hewett, Francis M., assignor of one-half to C. Folksdorf and M. Nelles, Beirne, Ark. Car-coupling	375,157	Dec. 20	1443	377	41	1342
Hewit, James H. (See McGovern and Hewit.)						
Hewitt, John J., Albion, Pa. Hoop-machine cutter-head	362,625	May 10	794	218	39	628
Hewitt, Adam H., assignor of one-half to G. W. Hewitt, Waynesburg, Pa. Fire-place heater.	357,992	Feb. 15	1813	476	38	777
Hewitt, Charles E., Brandon, Vt. Wear-iron for wagons	356,687	Jan. 25	1982	521	38	401
Hewitt, Ditus P., Rockdale, Tex. Farm and garden implement	361,519	Apr. 19	1603	415	39	315
Hewitt, G. W. (See Hewitt, Adam H., assignor.)						
Hewitt, Hezekiah, Birmingham, England. Pen-holder tip	360,298	Mar. 29	2845	724	38	1464
Hewitt, John, et al. (See Phillips, Francis V., assignor.)						
Hewitt, Leslie, Buffalo, N. Y. Riveting-machine	367,628	Aug. 2	395	111	40	527
Hewitt, William, assignor to Trenton Iron Company, Trenton, N. J. Machine for making wire rope	358,663	Mar. 1	360	86, 87	38	970
Hewlett, Maddra J., Cumberland City, Tenn. Car-coupling	360,693	Apr. 5	420	108	39	79
Hewson, Thomas J., Lee, county of Kent, England. Automatic apparatus for exhibiting communications	372,536	Nov. 1	368	100	41	540
Hexamer, Charles J., Philadelphia, Pa. Clock-synchronizing apparatus	373,138	Nov. 15	1292	343	41	727
Hey, George W. (See Laass and Hey.)						
Hey, George W., and E. Laass, Syracuse, N. Y. Mail-stamping apparatus	356,406	Jan. 18	1584	417	38	318
Heyer, John W., assignor to Pratt & Whitney Company, Hartford, Conn. Drilling-machine.	365,744	June 28	2269	591	39	1541
Heyer, William D., Elizabeth, N. J. Folding tracing-slate	365,182	June 21	1422	375	39	1368
Heyligenstaedt, Louis, Giessen, Germany. Machine for packing materials in tubs and casks	367,142	July 26	1910	516	40	384
Heyne, Otto J., Springfield, Mass. Adjustable overflow device for lamps	359,567	Mar. 15	1671	427	38	1226
Heyne, Otto J., assignor to T. W. Hamilton, Springfield, Mass. Overflow device for lamps	359,568	Mar. 15	1673	427	38	1226
Heysinger, Isaac W., Philadelphia, Pa. Electric railway	359,607	Mar. 22	1754	{ 446 447 }	{ 38 38 }	{ 1257 1257 }
Heysinger, Isaac W., Philadelphia, Pa. Hair crimper or curler	360,438	Apr. 5	61	16	39	13
Heysinger, Isaac W., Philadelphia, Pa. Device for automatically supplying staples to independent or detachable staple-drivers	363,957	May 31	2697	{ 698 699 }	{ 39 39 }	{ 1010 1010 }
Heywood Bros. & Co. (See Stevens, Asher B., assignor.)						
Heywood Brothers & Co. (See Buckman, Benjamin J., assignor.)						
Heywood Brothers & Co. (See Conant, Fred H., assignor.)						
Heywood, John J., Fall River, Mass. Band for driving spindles	367,041	July 26	1756	474	40	356
Hiatt, Jonathan S. (See Bales, Joel F., assignor.)						
Hiatt, Thomas, Leesburg, Fla. Machine for sizing and assorting oranges	369,939	Sept. 13	888	236	40	1211
Hiatt, Thomas, Leesburg, Fla. Feed-regulator for automatic fruit-assorters	374,153	Nov. 29	2796	751	41	1032
Hibbard, Alfred T., assignor to C. C. Jerome, Lincoln, Nebr. Gun-stock	371,886	Oct. 18	1650	426	41	342
Hibsch, George W., Buffalo, N. Y. Fire-escape	368,396	Aug. 16	1524	407	40	759
Hickel, W. Oscar, assignor to Rouse & Hills, Cleveland, Ohio. Gas-carburetor	366,664	July 19	1258	336	40	255
Hickerson, Eli H., Rush City, Minn. Harrow	368,288	Aug. 16	1391	367	40	731
Hickey, James, Castleton, Kans. Snap-hook	356,467	Jan. 25	1674	438	38	342
Hickey, John. (See O'Neill, Michael, assignor.)						
Hickey, Joseph F., Milford, Mass. Window-shade fixture	356,535	Jan. 25	1767	460	38	360
Hickey, Michael H., and W. R. Remme, Chicago, Ill. Calf-weaner	367,629	Aug. 2	397	111	40	527
Hickey, William H., Odessa, Del. Milk-cooler	364,648	June 14	618	167	39	1212
Hickle, Martin L., Dyson's, Ohio. Box-loop	374,068	Nov. 29	2677	720	41	1010
Hickley, Arthur S., Montreal, Quebec, Canada, assignor, by mesne assignments, to Electric Amalgam Company, of Maine. Manufacturing amalgams by electrolysis	356,640	Jan. 25	1927	505	38	390
Hickman, Daniel W., Jerseyville, Ill. Car-coupling	360,880	Apr. 12	690	181	39	135
Hickman, Wilber M., Battle Creek, Mich. School-seat	363,895	May 31	2589	673	39	991
Hickok, Dewey K., Morrisville, Vt. Washing-machine	366,665	July 19	1260	336	40	256
Hickok, Edwin H., deceased, Brooklyn, N. Y.; M. H. Hickok administratrix. Lamp-burner.	357,599	Feb. 15	1251	329	38	674
Hickok, Edwin H., deceased, (M. H. Hickok, administratrix,) New York, N. Y. Lamp-burner	365,745	June 28	2271	591	39	1542
Hickok Manufacturing Company, W. O. (See Metzger and Cooper, assignors.)						
Hickok, Mary H., administratrix. (See Hickok, Edwin H.)						
Hickok, Robert C., et al. (See Putnam, George S., assignor.)						
Hicks, Hiram G., Worcester, Mass. Welding compound	355,395	Jan. 4	135		38	28

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Hicks, Hiram G., Worcester, Mass. Hardening compound	372,619	Nov. 1	494		41	563
Hicks, James R., Kansas City, Mo. Rotary harrow	369,600	Sept. 6	395	109	40	1110
Hicks, James R., Kansas City, Mo. Rotary harrow. (Reissue)	10,868	Sept. 27	2106	558	40	1452
Hicks, Michael, <i>et al.</i> (See Kirby, John, Jr., assignor.)						
Hicks, Oliver H., Chicago, Ill. Apparatus for holding toilet-paper	357,993	Feb. 15	1814	476	38	777
Hicks, Oliver H., Chicago, Ill. Wire-cutting machine	362,746	May 10	967	{ 262 263 }	{ 39 39 }	660
Hicks, Oliver H., Chicago, Ill. Paper receptacle	366,583	July 12	1139	305	40	227
Hicks, Oliver H., Chicago, Ill. Paper receptacle	367,297	July 26	2141	576	40	427
Hicks, Oliver H., Chicago, Ill. Paper receptacle	367,298	July 26	2142	576	40	428
Hicks, Oliver H., Chicago, Ill. Paper-receptacle	369,940	Sept. 13	889	236	40	1211
Hicks, Oliver H., Chicago, Ill. Paper receptacle	374,474	Dec. 6	433	113	41	1129
Hicks, Oliver H., Chicago, Ill. Paper receptacle	374,475	Dec. 6	434	113	41	1129
Hicks, Thomas L., <i>et al.</i> (See Collins, M. Grier, assignor.)						
Hien, Phillip, Rock Island, assignor of one-half to H. C. Buhoup, Chicago, Ill. Brake-beam for railway-cars	361,009	Apr. 12	890	225	39	169
Hiestand, George B., Leaf River, Ill. Car-coupling	361,872	Apr. 26	2135	553	39	420
Hiester, Barent U., Farm Ridge, Ill. Muzzle	375,631	Dec. 27	2085	543	41	1474
Higbie, Moses S., South Amboy, N. J., assignor of one-half to G. G. Frelinghuysen, New York, N. Y. Manufacturing earthenware	373,290	Nov. 15	1529	.....	41	770
Higby, Charles W., Jackson, Mich. Bustle	369,179	Aug. 30	2638	700	40	991
Higdon, John B., Vancouver, Wash. Ter. Wood-boring machine	364,254	June 7	73	21	39	1102
Higdon, John H., Evergreen, Ala. Trace-fastener	362,080	May 3	37	11	39	480
Higgin, Henry. (See Youtsey and Higgin.)						
Higgin, Henry, Newport, Ky. Ornamental screw-bolt head	369,242	Aug. 30	2712	721	40	1006
Higgin, Thomas, Liverpool, county of Lancaster, England. Separating sand-scale, hard pan-scale, and other impurities from salt	364,587	June 7	540	145	39	1190
Higginbotham, Charles T., assignor to Seth Thomas Clock Company, Thomaston, Conn. Mainspring brace and fastener for watches and clocks	374,359	Dec. 6	274	73	41	1098
Higgins, Campbell P. (See Babcock and Higgins.)						
Higgins, Campbell P., Philadelphia, Pa. Machine for welding pipe	356,468	Jan. 25	1675	438	38	343
Higgins, Campbell P., Philadelphia, Pa. Hand-hole plate	358,394	Feb. 22	2379	632	38	888
Higgins, Campbell P., Brooklyn, N. Y. Machine for forming tubes	358,552	Mar. 1	208	48	38	942
Higgins, Campbell P., Brooklyn, N. Y. Machine for forming hollow forgings	364,347	June 7	191	53, 54	39	1125
Higgins, Campbell P., Brooklyn, N. Y. Steam-generator	364,348	June 7	194	54	39	1125
Higgins, Campbell P., Brooklyn, N. Y. Die for corrugating bars or tubes	364,349	June 7	194	54	39	1125
Higgins, Campbell P., Brooklyn, N. Y. Drum-head manifold for sectional steam-boilers	363,585	Aug. 23	1804	480	40	820
Higgins, Charles J., Hallowell, Me. Lantern globe and reflector. (Reissue)	10,814	Mar. 8	1171	305	38	1126
Higgins, Charles S., <i>et al.</i> (See Taylor, Lewis P., assignor.)						
Higgins, Charles W., Toledo, Ohio. Combined napkin holder and ring	365,598	June 28	2054	535	39	1502
Higgins, Eugene, <i>et al.</i> (See Preston, Almon E., assignor.)						
Higgins, Fred E., <i>et al.</i> (See Higgins, Henry C., assignor.)						
Higgins, George F., Chicago, Ill. Car-heater	373,185	Nov. 15	1373	364	41	741
Higgins, Henry C., assignor to himself, F. E. Higgins, and H. M. Kinney, Winona, Minn. End-gate for wagons	355,528	Jan. 4	301	80	38	61
Higgins, James E. (See Snow and Higgins.)						
Higgins, John B., Boston, Mass. Check-hook	367,810	Aug. 9	696	188	40	590
Higgins, John H., Charleston, Me. Adjustable spring harrow-tooth and false point	362,626	May 10	795	218	39	628
Higgins, John H., Charleston, Me. Hoeing and covering attachment for plows and cultivators	362,627	May 10	797	218	39	628
Higgins, John J., New York, N. Y. Finder for photographic cameras	366,584	July 12	1140	305	40	227
Higgins, John J., assignor to E. & H. T. Anthony & Co., New York, N. Y. Shutter for photographic cameras	364,413	June 7	288	80	39	1143
Higgins, John J., assignor to E. & H. T. Anthony & Company, New York, N. Y. Photographic camera	371,458	Oct. 11	1019	{ 265 266 }	{ 41 41 }	207
Higgins, Patrick J., assignor of one-third to C. Beard, New Vienna, Ohio. Binding-post	368,149	Aug. 9	1172	313	40	682
Higgins, Rozander S., Neoga, Ill. Heating-stove	372,620	Nov. 1	494	134	41	563
Higgins, Rozander S. and W. W., Neoga, Ill. Sliding or rolling gate	366,097	July 5	470	{ 127 128 }	{ 40 40 }	88
Higgins, Werter C., Norwich, Conn. Furnace	358,037	Feb. 22	1871	495	38	793
Higgins, William H., Forest City, Pa. Scaffold-bracket	362,747	May 10	970	263	39	661
Higgins, Willis W. (See Higgins, Rozanda S. and W. W.)						
Higgs, Joseph W., assignor to Meadville Wire Nail Company, (limited,) Meadville, Pa. Nail with countersunk head	373,291	Nov. 15	1530	404	41	770
Higham, Daniel. (See Higham, Enos T. and D.)						
Higham, Daniel, assignor to Higham Electric Motor Company, Philadelphia, Pa. Electric motor	372,910	Nov. 8	946	256	41	654
Higham, Daniel, assignor to Higham Electric Motor Company, Philadelphia, Pa. Prevention of sparking in electric motors and generators	373,739	Nov. 22	2202	589	41	911
Higham, Daniel, assignor to Higham Electric Motor Company, Philadelphia, Pa. Regulation of electric generators	374,406	Dec. 6	333	87	41	1109
Higham Electric Motor Company. (See Higham, Daniel, assignor.)						
Higham, Enos T. and D., Philadelphia, Pa. Regulator for dynamo-electric machines	362,510	May 10	621	175	39	598
Hight, Wallace L., Boston, Mass. Manufacture of ornamental signs	365,622	June 28	2172	566	39	1524
Hild, Michael, Philadelphia, Pa. Rounding-jack for hat-brims	368,297	Aug. 16	1525	408	40	759
Hildburgh, Henry. (See Briggs, James E., assignor.)						
Hildebrand, Charles, Youngstown, Ohio. Journal-lubricator	375,291	Dec. 20	1607	422	41	1375
Hildebrand, Reinhard, Benton City, Mo. Hedge-trimming machine	374,964	Dec. 20	1165	304	41	1290
Hildreth, George H. (See Hazen and Hildreth.)						
Hildreth, Henry L., Saginaw, Mich. Heating tank for salt-grainers	362,834	May 10	1086	294	39	682
Hildreth, Ned E., Decatur, Ind. Tubular-well valve	359,444	Mar. 15	1472	376	38	1189
Hildrup, William T., Jr., <i>et al.</i> (See Patton, William P., assignor.)						
Hildrup, William T., Sr., <i>et al.</i> (See Patton, William P., assignor.)						
Hildrup, William T., Jr., Harrisburg, Pa. Regulating the supply of liquid to retorts or gas-generators	362,081	May 3	38	11	39	480
Hildt, August, assignor to L. Dryfoos & Co., New York, N. Y. Quilting-machine	358,355	Feb. 22	2325	{ 616 617 }	{ 38 38 }	878
Hildwein, Robert, Cleveland, Ohio. Combination-lock	365,382	June 28	1727	447	39	1438
Hileman, John P., Arrowsmith, Ill. Hedge-trimmer	355,396	Jan. 4	136	37	38	28
Hilf, Heinrich J., New York, N. Y. Rotary harrow	368,586	Aug. 23	1805	481	40	821
Hill, Alva T., <i>et al.</i> (See Pungs, William A., assignor.)						
Hill, Andrew G., Prescott, Ontario, Canada. Wheel or disk harrow	360,093	Mar. 29	2523	642	38	1404
Hill, Andrew J. (See Steves and Hill.)						
Hill, Charles E., Bieber, Cal. Music-chart	373,069	Nov. 15	1190	318	41	708

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Hill, Charles F. (See Kay and Hill.)						
Hill, Charles F., Hazleton, Pa. Lightning-rod	361,520	Apr. 19	1603	415	39	316
Hill, Charles S., et al. (See Leighton, Carleton F., assignor.)						
Hill, Christian C., assignor to himself, J. W. Munday, E. S. Evarts, E. Adcock, and J. W. Munday, trustee, Chicago, Ill. Wire-nail machine	358,553	Mar. 1	210	49, 50	38	942
Hill, Christian C., Chicago, Ill., assignor to Hartman Steel Company, (limited,) Beaver Falls, Pa. Frame for wire mats	366,098	July 5	471	128	40	89
Hill, Christian C., Chicago, Ill., assignor to Monitor Works, Beloit, Wis. Spur-wheel fence-wire twisting and spooling machine	373,457	Nov. 22	1783	474	41	830
Hill, Christian C., Chicago, Ill., assignor to Monitor Works, Beloit, Wis. Machine for making spur-wheel fencing	373,458	Nov. 22	1784	{ 474 475 }	{ 41 41 }	{ 830 830 }
Hill, David, and G. W. Hall, Georgetown, Colo. Ore-jigger	372,469	Nov. 1	274	75	41	522
Hill, David H., Philadelphia, Pa. Circular-knitting machine	355,932	Jan. 11	913	238	38	185
Hill, David H., Philadelphia, Pa. Knitting-machine wheel	366,481	July 12	978	265	40	194
Hill, David H., Philadelphia, Pa. Oiling apparatus	369,180	Aug. 30	2638	700	40	991
Hill, Ebenezer, South Norwalk, Conn. Valve-gear	359,865	Mar. 22	2151	543	38	1328
Hill, Ebenezer, South Norwalk, Conn. Valve-gear	373,660	Nov. 22	2096	{ 560 561 }	{ 41 41 }	{ 880 880 }
Hill, Ebenezer, South Norwalk, Conn. Cross-head	373,661	Nov. 22	2098	561	41	890
Hill, Edward, Melrose, Mass. Lantern	366,955	July 19	1647	{ 441 442 }	{ 40 40 }	{ 328 328 }
Hill, Edward K. (See Hill, Lucian, assignor.)						
Hill, Elwin K., Jefferson, Ohio. Tension for twine-binders	369,710	Sept. 13	548	151	40	1148
Hill, F. Snowden. (See Wilson, James N. W., assignor.)						
Hill, Fred. H., Boston, Mass. Culinary utensil	368,210	Aug. 16	1262	336	40	707
Hill, G. Everett, Philadelphia, Pa. Caster	363,637	May 24	2229	577	39	917
Hill, George S., Lynn assignor to J. Reece, Boston, Mass. Button-hole piece for button-boots	360,590	Apr. 5	290	70	39	55
Hill, George W., Stark's Point, Wash. Ter., assignor of one-half to D. H. Welch, Astoria, Oreg. Device for holding cans	375,158	Dec. 20	1445	378	41	1342
Hill, Hallet T. (See McMillan and Hill.)						
Hill, Harry W., Cleveland, Ohio. Removable bushing for pulleys	374,833	Dec. 13	949	248	41	1241
Hill, Harry W., Cleveland, Ohio. Friction-clutch	374,834	Dec. 13	949	248	41	1241
Hill, Henry C., Haverstraw, N. Y. Strike-sander for brick-machines	356,585	Jan. 25	1842	483	38	374
Hill, Homer C., Clinton, Ill. Necktie-fastener	356,314	Jan. 18	1454	382	38	293
Hill, Ivory B. (See Dudley, Myrick, assignor.)						
Hill, James, et al. (See Wilson, John T. assignor.)						
Hill, James, Cleveland, Ohio. Cellular furnace for baking carbons	359,866	Mar. 22	2154	{ 543 544 }	{ 38 38 }	{ 1329 1329 }
Hill, Jeff, Freeport, Pa. Car-coupling	359,075	Mar. 8	953	243	38	1085
Hill, John, Columbus, Ga. Automatic fire-extinguisher	372,977	Nov. 8	1045	280	41	672
Hill, John J. (See Campbell, Hill, and Dodd.)						
Hill, John M., and A. McRae, Collingwood, Ontario, Canada. Harness-buckle	369,181	Aug. 30	2639	700	40	991
Hill, Jonathan S. (See Tetley and Hill.)						
Hill, Lucian, assignor of one-half to E. K. Hill, North Brookfield, Mass. Toy pistol	358,664	Mar. 1	366	87	38	971
Hill, Lucian, North Brookfield, assignor to Worcester Corset Company, Worcester, Mass. Corset-fastening	374,407	Dec. 6	334	87	41	1109
Hill, Moses. (See Clark, Asa, assignor.)						
Hill, Richard A. and R. C., Washington, D. C. Water-closet	358,929	Mar. 8	764	190	38	1049
Hill, Rozier C. (See Hill, Richard A. and R. C.)						
Hill, T. Newton, Richmond, Va. Open link	355,317	Jan. 4	33	9	38	8
Hill, Terelius A., High Point, N. C. Quilting-frame for sewing-machines	372,911	Nov. 8	947	256	41	654
Hill, Theodore W., Smithland, La. Planter	371,459	Oct. 11	1022	266	41	208
Hill, Thomas, Jersey City, N. J. Dumping-wagon	357,384	Feb. 8	925	244	38	602
Hill, Thomas, Jersey City, N. J. Dumping-wagon	372,470	Nov. 1	274	76	41	523
Hill, Thomas E., Rahway, N. J. Muffler	359,389	Mar. 15	1394	357	38	1174
Hill, Wade H. (See Rheutan, Abram A., assignor.)						
Hill, Warren S. (See Barnes and Hill.)						
Hill, William, Jr. (See Greenwood and Hill.)						
Hill, William E., Kalamazoo, Mich. Steam-feed mechanism for saw-mill carriages	370,058	Sept. 20	1079	285	40	1253
Hill, William P., Somerville, Mass. Curtain-pole ring	361,873	Apr. 26	2136	554	39	421
Hillard, James P., et al. (See Hackaley, William, assignor.)						
Hillebrand, Louis, Philadelphia, Pa. Carboy carrier and stand	367,980	Aug. 9	940	254	40	639
Hillebrand, Louis, assignor of one-half to D. Wolf, Philadelphia, Pa. Padlock for trunks, &c.	370,622	Sept. 27	1913	507	40	1416
Hiller, Michael L. (See Hart, Thomas F., assignor.)						
Hilles, George E., et al. (See Culberson, John L., assignor.)						
Hilles, S., et al. (See Culberson, John L., assignor.)						
Hillis, Jacob. (See Worley, Robinson, and Hillis.)						
Hillman, John H., Pittsburg, Pa., assignor to J. S. Frazer, Nashville, Tenn. Gas blast-furnace	372,912	Nov. 8	949	{ 256 257 }	{ 41 41 }	{ 654 654 }
Hills, Justin, Ischua, and F. Fitch, Franklinville, N. Y. Rotary engine	364,925	June 14	1041	271	39	1289
Hills, William W., Cadillac, Mich. Oil-can	365,130	June 21	1355	358	39	1355
Hillyard, M. B., et al. (See Brigg, Charles W., assignor.)						
Hilton, Franklin, Middlesbrough-on-Tees, county of York, England. Appliance for heating rolls of rolling-mills	372,621	Nov. 1	495	{ 134 135 }	{ 41 41 }	{ 564 564 }
Hilton, John S. (See Barger and Hilton.)						
Hilton, Osgood, San Francisco, Cal. Churn	360,299	Mar. 29	2846	724	38	1464
Hilyer, Andrew F. (See Davis, William R., assignor.)						
Hime, Amos, Rockford, Ill. Barrel-heater	374,069	Nov. 29	2678	720	41	1010
Himmer, Vitalis, New York, N. Y. Circuit-breaker for primary electric clocks	355,820	Jan. 11	734	192	38	151
Himmer, Vitalis, assignor to Standard Electric Clock Company, New York, N. Y. Primary electric clock	356,069	Jan. 11	1106	{ 292 293 }	{ 38 38 }	{ 222 222 }
Himmer, Vitalis, assignor to Standard Electric Clock Company, New York, N. Y. Watchman's time-recorder	356,070	Jan. 11	1107	293	38	223
Himmes, Jacob. (See Scharlé and Himmes.)						
Hinchliff, William. (See Hinchliff, William E. and W.)						
Hinchliff, William E. and W., Chicago, Ill. Brick-kiln	356,536	Jan. 25	1768	460	38	360
Hinchliffe, James H., Meredith, N. H. Stocking and knitting the same	374,408	Dec. 6	334	87, 88	41	1110
Hinchliffe, William, Nashville, Tenn., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Spindle-support for spinning-machines	361,359	Apr. 19	1397	359	39	275
Hinchman, Frank M., Waco, Tex. Gang-plow	359,355	Mar. 15	1335	345	38	1164
Hinchman, Jeremiah, Seneca Falls, N. Y. Shovel	366,099	July 5	472	128	40	89
Hinden, Mathias J. (See Schroeder and Hinden.)						
Hindmarch, Matthew, Caseyville, Ky. Gate	371,318	Oct. 11	828	212	41	170

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Hinds, Charles H., New York, N. Y. Inclosing-case for electric machines	368,088	Aug. 9	1088	290	40	666
Hinds, Frank A., Watertown, N. Y. Water-motor	368,089	Aug. 9	1090	290	40	667
Hinds, Frank A., Watertown, N. Y. Water-motor	368,090	Aug. 9	1092	290	40	667
Hinds, William H., and E. N. Edmonds, St. Joseph, Mo. Measuring-tank	365,599	June 28	2054	536	39	1502
Hinds, William H. H., Kennebunkport, Me. Bag-net for use in wash-boilers	363,638	May 24	2230	578	39	917
Hindson, Frederick W. (See Stone and Hindson.)						
Hine, Adelbert P., Torrington, Conn. Coiling attachment for rolls or slitters	357,082	Feb. 1	480	128	38	511
Hine, L. G. (See Maltby, Frank D., assignor.)						
Hine, Philip R., Spencer, Ohio. Fence	370,478	Sept. 27	1694	449	40	1375
Hines, Andrew L., Charlotte, Mich. Folding chair	358,554	Mar. 1	218	50	38	944
Hinkle, Leonard, Kenton, Ohio. Carpet-stretching machine	370,257	Sept. 20	1356	363	40	1305
Hinkley, George M., assignor of one-half to E. P. Allis, Milwaukee, Wis. Offsetting device for saw-mill carriages	368,669	Aug. 23	1916	510	40	842
Hinkley, George M., assignor of one-half to E. P. Allis & Co., Milwaukee, Wis. Saw-swinging machine	373,740	Nov. 22	2203	589 590	41	911
Hinman, George C., Springfield, Mass. Perch-holder for bird-cages	367,395	Aug. 2	55	14	40	461
Hinman, Harlan E., Ravenna, Ohio. Butter-jar	361,062	Apr. 12	960	243	39	182
Hinrichs, Theodore, Baltimore, Md. Advertising medium	364,588	June 7	542	145	39	1190
Hinsberg, Charles, San Francisco, Cal. Picture-support	371,319	Oct. 11	829	212	41	170
Hinsch, William A., et al. (See Peebles, Edwin C., assignor.)						
Hinsch, William L., Piqua, assignor of one-half to D. C. Lee, Cincinnati, Ohio. Vegetable-cutter	369,853	Sept. 13	749	201	40	1185
Hinsdale, William R., Brooklyn, N. Y. Apparatus for treating sewage	363,826	May 31	2498	648 649	39	974
Hinsdale, William R., Brooklyn, N. Y. Desiccating-roll	363,827	May 31	2500	649	39	975
Hinsdale, William R., Brooklyn, N. Y. Converting-ladle	364,589	June 7	543	146	39	1190
Hinsdale, William R., Brooklyn, N. Y., assignor to B. Atha, Newark, N. J. Device for breaking bars	362,381	May 3	432	120	39	559
Hinsdale, William R., Brooklyn, N. Y., assignor to B. Atha, Newark, N. J. Heated funnel for ingot-molds	363,828	May 31	2502	650	39	975
Hinsdale, William R., Brooklyn, N. Y., assignor to B. Atha, Newark, N. J. Torsion apparatus for breaking ingot-bars	365,473	June 28	1857	482	39	1463
Hinsdell, Julia M., Grand Rapids, Mich. Mattress	371,938	Oct. 25	1724	446	41	366
Hinson Automatic Car Coupler Company. (See Hinson, James A., assignor.)						
Hinson, James A., assignor to Hinson Automatic Car Coupler Company, Des Moines, Iowa. Car-coupling	368,337	Aug. 16	1449	384	40	743
Hinton, James H. (See Hinton, William W. and J. H.)						
Hinton, William W. and J. H., Covington, Ky. Counter show-case	360,153	Mar. 29	2635	666	38	1423
Hipp, August F., Toledo, Ohio. Hoof-pad	362,215	May 3	216	64	39	515
Hipp, Elmer E., Lebanon, Pa. Animal-releasing device	366,100	July 5	473	128	40	89
Hipperling, William, New York, N. Y., assignor to S. A. Ginna, Plainfield, N. J., and R. A. Donaldson, Brooklyn, N. Y. Apparatus for the manufacture of tin cans	366,482	July 12	979	266	40	194
Hipwell, John B., Philadelphia, Pa. Tension device for sewing-machines	355,529	Jan. 4	302	81	38	61
Hipwell, Thomas, Allegheny City, assignor to Pittsburg Brass Company, (limited,) Pittsburg, Pa. Tripod stand	366,833	July 19	1488	397	40	297
Hirsch, Feodor, assignor of five-eighths to A. Schell and C. Rosell, Albany, N. Y. Machine for labeling cans	360,694	Apr. 5	421	108 109 110	39	79
Hirsch, Ludwig, New York, N. Y. Watch-maker's tweezers	369,182	Aug. 30	2640	701	40	991
Hirsch, Morris M. (See Mossop, William F., assignor.)						
Hirschberg, Francis D., et al. (See Bonehill, Robert, assignor.)						
Hirsching, Henry, assignor of one-half to A. Wiedringhaus and F. Jungk, Salt Lake City, Utah Ter. Reduction of ores	365,746	June 28	2271	591	39	1542
Hirsh, Joseph. (See Freck, William C., assignor.)						
Hirshfield, Philip, New York, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button	366,101	July 5	474	129	40	89
Hirt, Louis J., Rochester, N. Y., assignor to Standard Nail and Tack Company, Saco, Me. Nail-machine	355,609	Jan. 4	403	110 111	38	81
Hirt, Louis J., Rochester, N. Y., assignor to Standard Nail and Tack Company, Saco, Me. Tack-machine	355,610	Jan. 4	408	111 112 113	38	81
Hiscock, Elum C., Caro, Mich. Bracket clothes-bar	360,386	Mar. 29	2971	753	38	1485
Hiscott, Alva J., Bridgeport, Conn. Die for making seamless dress-shields	365,069	June 21	1261	332 333	39	1339
Hiscott, Alva J., Bridgeport, Conn. Die for making seamless dress-shields	365,070	June 21	1262	333	39	1340
Hise, George L. (See Hasty and Hise.)						
Hitchings, Charles E., New York, N. Y. Radiator	374,360	Dec. 6	276	74	41	1099
Hitchcock, Charles A., et al. (See Burnley, William, assignor.)						
Hitchcock, Charles A., assignor of three-fourths to W. Burnley, North East, S. A. Davenport, Erie, and L. F. Watson, Warren, Pa. Telephone-switch	359,356	Mar. 15	1336	345	38	1164
Hitchcock, Charles A., and W. Burnley, North East, assignors to themselves, L. F. Watson, Warren, and S. A. Davenport, Erie, Pa. Telephone-switch	356,040	Jan. 11	1062	279	38	215
Hitchcock, David S., Cleveland, Ohio. Bottle-stopper	361,285	Apr. 19	1291	331	39	257
Hitchcock Manufacturing Company. (See Mayhew, Reuben W., assignor.)						
Hite, Cornelius B., assignor of one-half to R. G. Dyrenforth, Washington, D. C. Collapsible globe for educational purposes	357,994	Feb. 15	1815	476 477	38	777
Hitt, Adrian, assignor of one-half to A. A. Thompson, Jersey City, N. J. Window	373,020	Nov. 8	1115	297	41	684
Hitt, Adrian, Rushville, Ind., assignor to himself and A. A. Thompson, Jersey City, N. J. Wind-vane motor for clocks	366,834	July 19	1489	397	40	297
Hitt, Rensselaer, assignor of one-half to P. S. Dorlan, Waterloo, Iowa. Wagon-jack	371,887	Oct. 18	1651	426	41	342
Hix, Galen F., et al. (See Hix, Oliver P., assignor.)						
Hix, Oliver P., assignor, by mesne assignments, to himself, A. Oliver, D. N. Mortland, and G. F. Hix, Rockland, Me. Car-coupling	358,267	Feb. 22	2205	581	38	854
Hix, Oliver P., assignor, by mesne assignments, to himself, A. Oliver, D. N. Mortlandt, and G. F. Hix, Rockland, Me. Car-coupling	367,396	Aug. 2	56	14	40	461
Hoadley, Alva T., Tilden, Ind. Fence-weaving machine	371,939	Oct. 25	1724	446	41	366
Hoadley, Isaac N., assignor to Hoadley Packer Company, (limited,) Bradford, Pa. Packer for gas or oil wells	370,701	Sept. 27	2027	540	40	1437
Hoadley Packer Company. (See Hoadley, Isaac N., assignor.)						
Hoag, Charles A. (See Moyer and Hoag.)						
Hoagland, William K., assignor of one-half to Peru Plow and Wheel Company, Peru, Ill. Cultivator	367,913	Aug. 9	840	227	40	620
Hoague, John H., Chicopee, Mass. Gage for drawing-knives	366,724	July 19	1345	360	40	271

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Hoban, Thomas P. (See Kruegermann, Friedrich, assignor.)						
Hobart, John A. (See Kennedy, Hobart, and Kimball.)						
Hobbie, Alonzo D., Bergen Point, N. J. Case of pigeon-holes	357,004	Feb. 1	367	97	38	490
Hobbs, Alfred J., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Shot-cartridge	355,530	Jan. 4	303	81	38	61
Hobbs, Alfred J., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Gas-check for reloading-cartridges	357,005	Feb. 1	368	98	38	490
Hobbs, Clarence W., Lynn, Mass. Machine for staying paper boxes	367,397	Aug. 2	57	$\left\{ \begin{array}{l} 14 \\ 15 \\ 16 \end{array} \right\}$	40	461
Hobbs, James, Brighton, England. Apparatus for making infusions	370,141	Sept. 20	1205	319	40	1276
Hobbs, Philip M., Wymore, Nebr. Cow-milker	370,539	Sept. 27	1782	475	40	1391
Hobbs, William H. (See Borton, Job, assignor.)						
Hobby, Arthur S., Cincinnati, Ohio. Electrical registering device	371,583	Oct. 18	1198	313	41	251
Hobert, Heuston H., assignor of one-half to G. C. Boden, Baltimore, Md. Automatic brake	359,675	Mar. 22	1846	$\left\{ \begin{array}{l} 468 \\ 469 \end{array} \right\}$	38	1274
Hochhacker, Joseph, and R. Sulzer, Brooklyn, N. Y. Starch-polish	363,235	May 17	1648		39	797
Hochhausen, William, New York, N. Y. Switch and holder for incandescent electric lamps	357,385	Feb. 8	926	244	38	603
Hochhausen, William, New York, N. Y. Electric distribution by secondary batteries	367,630	Aug. 2	398	$\left\{ \begin{array}{l} 111 \\ 112 \end{array} \right\}$	40	527
Hochhausen, William, New York, N. Y. Electric motor	374,871	Dec. 13	1004	262	41	1251
Hochhausen, William, Brooklyn, N. Y. Apparatus for reversing and controlling electric motors and other translating devices	374,872	Dec. 13	1005	263	41	1251
Hockensmith, William H. (See Haydon, Frederick, assignor.)						
Hocking Valley Manufacturing Company. (See Kissner and Gromme, assignors.)						
Hockspeier, Louis H., Sheffield, Iowa. Hame attachment	375,355	Dec. 27	1700	446	41	1401
Hodapp, John B., Mankato, Minn. Can-filling machine	356,122	Jan. 18	1196	$\left\{ \begin{array}{l} 317 \\ 318 \end{array} \right\}$	38	245
Hodel, Joseph A., Cumberland, Md. Chimney	363,236	May 17	1648	433	39	797
Hodge, Chester A., Beloit, Wis. Barbed fence	367,398	Aug. 2	61	16	40	462
Hodge, Richard M., Princeton, N. J. Graduated filing-case	367,981	Aug. 9	941	254	40	639
Hodge, Thomas B., Providence, R. I. Button-hook	358,118	Feb. 22	2001	527	38	815
Hodge, Thomas B., Providence, R. I. Label-holder	370,540	Sept. 27	1783	476	40	1391
Hodge, William, Easton, Pa. Washing-machine	362,007	Apr. 26	2333	608	39	455
Hodge, William F., and N. H. Pratt, assignors to themselves and G. S. Thayer, North Adams, Mass. Heel-forming machine	361,414	Apr. 19	1467	379	39	289
Hodges, A. B., et al. (See Kail, John L., assignor.)						
Hodges, Charles C., et al. (See Hodges, Clarence B., assignor.) (Reissue.)						
Hodges, Charles C., Detroit, Mich. Safety-shield for lubricator-glasses	362,445	May 3	523	146	39	576
Hodges, Charles H., et al. (See Hodges, Clarence B., assignor.) (Reissue.)						
Hodges, Clarence B., assignor of three-fourths to H. C., C. C., and C. H. Hodges, Detroit, Mich. Lubricator. (Reissue.)	10,824	Apr. 5	626	166	39	117
Hodges, Harlan, Keota, Iowa. Grain-weighing apparatus	360,154	Mar. 29	2636	666	38	1424
Hodges, Henry C., et al. (See Hodges, Clarence B., assignor.) (Reissue.)						
Hodges, Henry C., Detroit, Mich. Joint for crossing parts of corrugated metal	362,008	Apr. 26	2334	608	39	456
Hodges, Henry C., Detroit, Mich. Car-truck	362,446	May 3	525	$\left\{ \begin{array}{l} 146 \\ 147 \end{array} \right\}$	39	576
Hodges, Ira B., et al. (See Kail, John L., assignor.)						
Hodges, Thomas, and A. H. Myers, Louisburg, Kans. Druggist's weight-drawer	369,243	Aug. 30	2713	721	40	1006
Hodgkin, Maria J., Jerseyville, Ill. Bustle or pannier	364,820	June 14	891	234	39	1261
Hodgkins, Christopher, Marlborough, N. H. Harrow	361,698	Apr. 26	1875	486	39	374
Hodgkinson, James, Salford, county of Manchester, England. Mechanical stoker	359,676	Mar. 22	1847	469	38	1275
Hodgman, Willis K. (See Huber and Hodgman.)						
Hodgman, Willis K., and N. H. Cheney, assignors to Huber Printing Press Company, Taunton, Mass. Rack-tooth	364,926	June 14	1042	272	39	1290
Hodgson, John G., assignor to E. and O. W. Norton, Chicago, Ill. Can-cap-soldering machine	356,469	Jan. 25	1676	439	38	343
Hodgson, John G., assignor to E. and O. W. Norton, Chicago, Ill. Gang-die press	361,286	Apr. 19	1292	331	39	257
Hodgson, John G., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Die for cutting planchets from sheet metal	375,354	Dec. 27	1699	446	41	1401
Hodnett, William C., Douglasville, Ga. Vehicle-wheel	359,445	Mar. 15	1473	$\left\{ \begin{array}{l} 376 \\ 377 \end{array} \right\}$	38	1190
Hodson, John T., Cambridge, Mass. Lemon-squeezer	369,711	Sept. 13	549	151	40	1148
Hoe & Co., R. (See Conquest, William, assignor.)						
Hoe & Co., R. (See Crowell, Luther C., assignor.)						
Hoe & Co., R. (See Nordblom, Ernst, assignor.)						
Hoe & Co., R. (See Scott, Walter, assignor.)						
Hoefer, Frederick W., Florence, Ill. Hame-coupling	369,338	Sept. 6	41	12	40	1042
Hoeneman, Franklin P., New York, assignor to himself and C. G. Otis, Brooklyn, N. Y. Twine-cutter	366,102	July 5	475	129	40	89
Hoepfner, George, and H. Wuest, New York, N. Y. Subsidiary axle-arm	357,828	Feb. 15	1590	413	38	735
Hoerman, Henry, Palmer, Kans. Hay and stock rack	355,765	Jan. 11	648	169	38	136
Hoever, William A. (See Lyon, James A., assignor.)						
Hoey, John, New York, N. Y. Inkstand	371,320	Oct. 11	830	212	41	170
Hof, Jacob. (See Hof, John G. and J.)						
Hof, John G. and J., Nora Springs, Iowa. Windmill	361,157	Apr. 12	1113	282	39	211
Hofele, Ferdinand W., assignor to E. S. Allen, New York, N. Y. Telescopic ladder	360,806	Apr. 5	577	$\left\{ \begin{array}{l} 150 \\ 151 \end{array} \right\}$	39	109
Hofer, Charles, Waltham, Mass. Ruby-pin setter	367,101	July 26	1851	499	40	374
Hoff, Christopher, et al. (See Lee, John O., assignor.)						
Hoff, Herman, Chicago, Ill. Acid-chamber for gas-generators	365,254	June 21	1532	399	39	1389
Hoffman, Absalom H., Littleton, Iowa. Horse-power for stackers	363,139	May 17	1520	402	39	772
Hoffman, Andrew E., Fort Wayne, Ind. Feed mechanism for saw-mill carriages	370,944	Oct. 4	304	74, 75	41	60
Hoffman, B. F. (See Phillips, William J., assignor.)						
Hoffman, Carl G. (See Doehring and Hoffman.)						
Hoffman, George, Mount Vernon, N. Y. Lounge	373,977	Nov. 29	2546	684	41	984
Hoffman, George N. (See Dunham and Hoffman.)						
Hoffman, Henry, Jr., assignor to Norwalk Lock Company, South Norwalk, Conn. Mortise lock and latch	367,631	Aug. 2	403	112	40	528
Hoffman, Henry, Jr., assignor to Norwalk Lock Company, South Norwalk, Conn. Manufacture of hooks	371,502	Oct. 11	1085	282	41	220
Hoffman, John B. (See Kellogg and Penrose, assignors.)						
Hoffman, Joseph, Hoboken, N. J., assignor to G. A. Goldsmith, New York, N. Y. Pencil	365,747	June 28	2274	591	39	1542

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Hoffman, Newton, Elizabeth. W. Va. Feed mechanism for saw-mill carriages.....	359,076	Mar. 8	954	243	38	1085
Hoffman, Theodore R., Cleveland, Ohio. Paper-fastener.....	374,070	Nov. 29	2679	720	41	1010
Hoffman, William H., Jerseyville, Ill. Rail-splice for railways.....	371,584	Oct. 18	1200	313	41	252
Hoffmann, Charles, New York, N. Y. Grate-bar.....	356,537	Jan. 25	1770	460	38	360
Hoffmann, Gustav A., assignor of one-half to R. J. Thomas, Milwaukee, Wis. Mechanism for operating sausage-stuffing machines.....	359,971	Mar. 22	2318	583	38	1359
Hoffmann, Gustavus, Lebanon, Ill. Material-case for watch-makers and others.....	357,006	Feb. 1	369	98	38	491
Hoffmann, Gustavus, Lebanon, Ill. Watch-key.....	361,627	Apr. 19	1772	458	39	348
Hoffmann, Otto C., assignor to J. H. Romain, Chicago, Ill. Device for displaying advertising-cards.....	360,881	Apr. 12	691	{ 181 182 }	{ 39 }	135
Hoffmeier, Amos K., Lancaster, Pa. Metallic dowel-pin.....	375,449	Dec. 27	1827	478	41	1426
Hoffstadt, Oscar, New York, N. Y. Box for samples, &c.....	370,059	Sept. 20	1080	285	40	1253
Hofman, John, Rochester, N. Y. Sash-fastener.....	355,450	Jan. 4	202	54	38	41
Hofmann, Adam, Indianapolis, Ind. Harness.....	361,874	Apr. 26	2137	554	39	421
Hofmann, Ottokar, Alameda, Cal. Extracting silver from its ores by lixiviation.....	366,103	July 5	476	129	40	90
Hofstatter, Adolph G., New York, N. Y. Picture-cord fastener.....	358,268	Feb. 22	2205	581	38	854
Hofstetter, Charles, Jr., assignor of two-thirds to F. and A. E. Hall, Peoria, Ill. Car-heater.....	368,211	Aug. 16	1263	337	40	707
Hogan, Hugh F., Albion, Ind., assignor of one-half to W. D. Gleason, Park Manor, Ill. Locomotive head-light.....	372,264	Oct. 25	2219	568	41	456
Hogan, John, St. Louis, Mo. Adjustable foot-rest for chairs.....	358,154	Feb. 22	2051	{ 539 540 }	{ 38 }	825
Hogan, John, St. Louis, Mo. Head-rest for chairs.....	369,854	Sept. 13	750	201	40	1185
Hogan, Michael, Pelham, N. Y. Picture-frame.....	366,835	July 19	1490	398	40	297
Hogan, Peter, Ballston, N. Y. Process of and apparatus for recovering alkali.....	366,956	July 19	1648	442	40	328
Hogan, William A., et al. (See Flett, John H., assignor.)						
Hogben, George W. (See Lampson and Hogben.)						
Hogben, George W. (See Lampson, Laning, and Hogben.)						
Högborg, Anders O., Ransäter, Wermland, Sweden. Iron chair.....	365,999	July 5	341	91	40	65
Hogboom, Levi S., Three Rivers, Mich. Bran-duster.....	364,927	June 14	1043	272	39	1290
Hogel, Hascal A., Yonkers, N. Y. Manufacturing salt from brine.....	371,503	Oct. 11	1086	282	41	221
Hogeland, John W., Lovilia, Iowa. Hay-loader.....	355,991	Jan. 11	996	{ 261 262 }	{ 38 }	202
Hogg, William C., Cleveland, Ohio. Combined metal rolling and punching machine.....	355,693	Jan. 11	544	143	38	116
Hoggson & Pettis Manufacturing Company. (See Pettis, George C., assignor.)						
Hoggson, Samuel J., New Haven, Conn. Compound for preserving fruit.....	367,632	Aug. 2	403	.....	40	528
Hogboom, William S. (See Haughwout and Hogboom.)						
Hogue, Lovren E. (See Field and Hogue.)						
Hohenstein, Carl J., New York, N. Y. Sound-recording apparatus.....	356,877	Feb. 1	193	53	38	457
Hohlfelder, Frederick, and V. F. Carpenter, Cleveland, Ohio; said Carpenter assignor to said Hohlfelder. Horse-power.....	369,449	Sept. 6	191	55	40	1068
Hohorst, Frederick, Brooklyn, N. Y. Awning.....	369,601	Sept. 6	397	110	40	1111
Hohre, Andreas G. and O. G., Drammen, Norway. Machine for producing plain or ornamental articles from plastic material.....	361,822	Apr. 26	2049	{ 533 534 }	{ 39 }	405
Hohre, Ole G. (See Hohre, Andreas G. and O. G.)						
Holaday, Benjamin F., Blaine, Kans. Clod crusher or roller for listed corn.....	367,399	Aug. 2	62	16	40	462
Holbon, Robert, assignor of one-half to M. Klock, Alpena, Mich. Pencil-holder for slate-frames.....	368,289	Aug. 16	1392	367	40	731
Holbrook, Benjamin F., Philadelphia, Pa. Wall-paper.....	357,083	Feb. 1	481	.....	38	511
Holbrook, Charles E., Watertown, N. Y. Sheet-piling attachment for printing-presses.....	360,439	Apr. 5	63	16	39	13
Holbrook, Frank W., Brooklyn, N. Y. Coffee-separator.....	361,415	Apr. 19	1469	379	39	289
Holbrook, Giles J., Jersey City, N. J. Æolian harp.....	358,448	Mar. 1	36	10	38	910
Holbrook, James H., Boston, Mass. Twine-reel.....	360,440	Apr. 5	65	17	39	13
Holbrook, Walter A., et al. (See Randall, Purdy M. and A., assignors.)						
Holcomb, Henry M. (See Matson, Charles, assignor.)						
Holcomb, Henry W., assignor of one-half to D. H. and E. Dunton, Detroit, Mich. Ash-chute for stoves.....	370,142	Sept. 20	1206	319	40	1276
Holcombe, Alfred G., New York, N. Y. Electrical communicating system.....	371,940	Oct. 25	1725	{ 446 447 }	{ 41 }	366
Holden, Amory J., Oakham, Mass. Furnace.....	365,071	June 21	1263	333	39	1340
Holden, Edward C., Lynn, Mass. Marking-tool for boot or shoe soles.....	364,649	June 14	619	167	39	1213
Holden, Harry, R. G. Brooke, and T. H. White, Salford, county of Lancaster, England. Injector. (Reissue).....	10,811	Mar. 1	596	{ 147 148 }	{ 38 }	1014
Holden, Isaac, assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Indicator.....	355,531	Jan. 4	304	81, 82	38	61
Holden, Roland B., Billerica, Mass. Pruning implement.....	358,665	Mar. 1	367	87	38	971
Holden, William L., Merrill, Wis. Tellurian.....	374,409	Dec. 6	337	88	41	1110
Holdridge, Orry H., Port Leyden, N. Y. Fire-escape.....	371,585	Oct. 18	1201	313	41	252
Holgate, George, Philadelphia, Pa. Curing and preserving meats.....	356,766	Feb. 1	34	10	38	430
Holgate, George H., Philadelphia, Pa. Water-closet.....	365,920	July 5	234	62	40	46
Holgate, Jacob B. (See Holgate, John and J. B.)						
Holgate, John and J. B., Burnley, county of Lancaster, England. Feed-regulator for roller-mills.....	361,416	Apr. 19	1470	380	39	289
Holladay, Benjamin L., near Holladay, Va. Bedding-protector.....	366,000	July 5	342	91	40	65
Holladay, John M., Holladay, Va. Lock for concealed-hammer guns.....	365,383	June 28	1728	{ 447 448 }	{ 39 }	1439
Holland, Albert C. (See O'Connell, Joseph, assignor.)						
Holland, Charles E. (See Coupal and Holland.)						
Holland, Charles E., assignor to Boot and Shoe Sole Laying Company, Boston, Mass. Beating-out machine.....	361,628	Apr. 19	1773	458	39	348
Holland, Charles E., assignor to Boot and Shoe Sole Laying Company, Boston, Mass. Sole-laying machine.....	362,447	May 3	526	147	39	576
Holland, Henry S., Wilmington, Va. Fire-escape.....	358,666	Mar. 1	368	87	38	971
Holland, John, Cincinnati, Ohio. Fountain-pen.....	356,123	Jan. 18	1198	318	38	245
Holland, Jonathan G., Glens Falls, N. Y. Truss.....	364,590	June 7	546	{ 146 147 }	{ 39 }	1191
Hollander, Alva L., Somerville, assignor to Hollander & Bradshaw, Chelsea, Mass. Manufacturing cuspidors.....	361,221	Apr. 12	1211	308	39	230
Hollander & Bradshaw. (See Hollander, Alva L., assignor.)						
Hollenback, Adam S., assignor of one-half to C. M. Ghriskey, Philadelphia, Pa. Ice-tongs.....	371,066	Oct. 4	477	120	41	94
Hollenbeck, Ernest, Davison, Mich. Meat-preserving implement.....	374,600	Dec. 13	625	163	41	1177
Hollenbeck, Francis E., Perrysburg, Ohio. Heel-plate for boots or shoes.....	357,386	Feb. 8	929	244	38	603
Hollenbeck, Frank A., Syracuse, N. Y. Spring mortise-latch.....	357,084	Feb. 1	481	128	38	511

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Hollensbe, Henry. (See Kelly, James M., assignor.)						
Hollerith, Herman, St. Louis, Mo. Method of and apparatus for operating pressure or vacuum brakes	363,463	May 24	1962	513	39	865
Hollerith, Herman, New York, N. Y. Electro-pneumatic brake for railway-trains	363,464	May 24	1965	514	39	865
Holliday, Edgar, and E. Rau, Brooklyn, N. Y. Dyeing with basic aniline	357,281	Feb 8	785	.....	38	576
Holliday, George H., assignor of one-half to Foster Stove Company, Ironton, Ohio. Range or cooking-stove	357,929	Feb. 15	1722	450	38	760
Holliday, Thomas, Huddersfield, county of York, England. Naphthol dyeing	355,933	Jan. 11	914	.....	38	186
Holliday, Thomas, Huddersfield, county of York, England. Dyeing textile animal fibers	355,934	Jan. 11	915	.....	38	186
Holliday, Thomas, Huddersfield, county of York, England. Naphthol-dyed fabric	355,935	Jan. 11	915	.....	38	186
Holliday, Thomas, Huddersfield, county of York, England. Dyeing	362,835	May 10	1087	.....	39	682
Hollinger, Noah, Goshen, Ind. Grain-separator	359,569	Mar. 15	1674	427	38	1227
Hollingsworth, George W., Philadelphia, Pa. Device for removing valves and valve-seats	371,321	Oct. 11	831	213	41	170
Hollingsworth, William. (See Hooper and Hollingsworth.)						
Hollingworth, James, Dobcross, county of York, England. Shuttle-box for looms	365,683	June 28	2173	567	39	1524
Hollingworth, James, Dobcross, county of York, England. Dobby for looms	369,941	Sept. 13	891	236	40	1211
Hollis Frank J. (See Laver, William C., assignor.)						
Holloway, Henry C., Gilroy, Cal. Steam-generator	369,405	Sept. 6	133	38	40	1057
Holloway, Herman. (See Dunbar and Holloway.)						
Hollweg, Carl, Barmen, Prussia, Germany. Pocket-knife	364,414	June 7	290	80	39	1143
Holly, Charles and T., Sellersville, Pa. Cheese-machine	372,149	Oct. 25	2047	524	41	423
Holly, John, Rouseville, Pa. Spirit-level	363,140	May 17	1521	402	39	772
Holly, Theodore. (See Holly, Charles and T.)						
Holm, Charles W., Troy, Ohio. Fence-post	366,957	July 19	1649	442	40	329
Holm, George A., Mansfield, Ohio. Perforating-machine	366,104	July 5	477	129	40	90
Holm, John, and L. Engberg, Ainsworth, Nebr. Wind-wheel	355,992	Jan. 11	997	262	38	202
Holman, Albert P., and F. Bean, Medford, assignors to said Bean and F. D. March, Cambridge, Mass. Machine for uniting sheet materials	366,001	July 5	343	91, 92	40	65
Holman, C. B., et al. (See Harding, John, Jr., assignor.)						
Holman, Frank H. (See Orr and Holman.)						
Holman, John H. (See Smith, Thomas W., assignor.)						
Holman, Strange A., assignor of five-eighths to M. D. Ogden and S. W. Gehr, Chicago, Ill. Child's carriage	355,532	Jan. 4	308	82	38	62
Holmes, A. Elton. (See Garrison, Samuel R., assignor.)						
Holmes, Booth & Haydens. (See Jenkins, Nicholas, assignor.)						
Holmes, Britain. (See Holmes, Edward and B.)						
Holmes, E. & B. (See Crafts, Francis H., assignor.)						
Holmes, Edward and B., Buffalo, N. Y. Producing ornamental surfaces	369,244	Aug. 30	2714	721	40	1006
Holmes, Francis M. (See Dolbear, Amos E., assignor.)						
Holmes, Franklin. (See Scott and Holmes.)						
Holmes, Harry W. (See Curlett, Lewis K., assignor.)						
Holmes, John, Boston, Mass. Knitted garment	360,094	Mar. 29	2525	642	38	1405
Holmes, John, Boston, Mass. Leg-covering	364,650	June 14	620	167	39	1213
Holmes, Joseph E., Washington, D. C. Temperature-controller	357,829	Feb. 15	1592	413	38	735
Holmes, Joseph E., Washington, D. C. Combination refrigerating-safe	357,830	Feb. 15	1593	413	38	736
Holmes, Philip H., Gardiner, Me. Turbine water-wheel	356,124	Jan. 18	1199	318	38	245
Holmes, Sidney T., Ann Arbor, Mich. Steam-purifying apparatus	360,591	Apr. 5	291	71	39	56
Holmes, Theodore S., Brooklyn, N. Y. Dental regulating device	360,695	Apr. 5	430	110	39	80
Holmes, Wesley A., Short Creek, Ohio. Fence	360,155	Mar. 29	2638	667	38	1424
Holmgreen, Julius H., San Antonio, Tex. Motor	366,958	July 19	1650	443	40	329
Holroyd, James, Albany, N. Y. Garment	366,105	July 5	479	130	40	90
Holroyd, James R. (See Bradley and Holroyd.)						
Holroyd, John, Manchester, county of Lancaster, assignor to F. Thywissen and V. Witte, London, England. Sewing-machine	360,095	Mar. 29	2526	643	38	1405
Holt, Charles C., assignor of one-half to W. H. Hutchinson, Lawrence, Mass. Railway-car	374,897	Dec. 13	1045	273	41	1200
Holt, Charles H., Philadelphia, Pa. Feed-water heater	360,349	Mar. 29	2911	741	38	1476
Holt, George D., assignor of one-half to S. Potts, Minneapolis, Minn. Conduit for electrical conductors	374,792	Dec. 13	891	233	41	1229
Holt, George D., and W. T. McGinty, Minneapolis, Minn.; said McGinty assignor to said Holt. Duct-conduit for electrical conductors	358,778	Mar. 1	522	128	38	1000
Holt, George R., Burlington, Vt. Bobbin for spinning-machines	369,942	Sept. 13	892	237	40	1211
Holt, Henry P. (See Crossley, Holt, and Anderson.)						
Holt, Henry P., Leeds, county of York, and F. W. Crossley, Manchester, county of Lancaster, England. Gas-motor engine	370,258	Sept. 20	1357	{ 363 } { 364 }	{ 40 }	1305
Holt, Lucy J., Denton, Tex. Pie safe or refrigerator	370,945	Oct. 4	307	75	41	61
Holt, Luther P. (See Jones and Holt.)						
Holt, W. H., et al. (See Eckhart, John G., assignor.)						
Holton, John B., Washington, Ky. Gate	357,529	Feb. 8	1134	297	38	642
Holton, John B., Washington, Ky. Gate	373,978	Nov. 29	2547	{ 684 } { 685 }	{ 41 }	984
Holton, John L., New Lisbon, Ohio. Eaves-trough	362,836	May 10	1087	294	39	682
Holway, Alvah W., Boston, Mass. Baking-powder	358,612	Mar. 1	293	.....	38	958
Holtzer, Charles W., Brookline, Mass. Electric gas-burner	360,696	Apr. 5	431	111	39	80
Holtzer, Charles W., Brookline, Mass. Electric gas-lighter	364,760	June 14	792	209	39	1244
Holz, Fred, and G. A. Mueller, Anderson's Ferry, assignors to Cincinnati Screw and Tap Company, Cincinnati, Ohio. Milling-machine	362,082	May 3	40	12	39	480
Holzer, William, Harrison, N. J. Incandescent electric lamp	356,199	Jan. 18	1294	342	38	262
Holzhalt, Herman T., Cincinnati, Ohio. Clothes-rack for wardrobes	356,125	Jan. 18	1200	319	38	246
Homan, Eugene, New York, N. Y. Self-closing fancet	362,277	May 3	292	81	39	530
Homan, William C., assignor to Stiles & Parker Press Company, Middletown, Conn. Sheet-metal table-top	358,269	Feb. 22	2207	581	38	854
Homans, Charles A., assignor to L. K. Homans, Winchester, Mass., and O. F. Gunz, Rutherford, N. J. Electric-arc lamp	373,934	Nov. 29	2479	665	41	971
Homans, Charles A., assignor to L. K. Homans, Winchester, Mass., O. F. Gunz, Rutherford, N. J., and I. L. Baeza, New York, N. Y. Electric lamp	367,002	July 19	1701	{ 457 } { 458 }	{ 40 }	338
Homans, Lydia K., et al. (See Homans, Charles A., assignor.)						
Honan, John J., Fall River, Mass. Temple-plate for power-looms	375,159	Dec. 20	1446	378	41	1342
Honecker, John, Cleveland, Ohio. Fruit-gatherer	359,211	Mar. 8	1131	294	38	1119
Honeyman, John, Glasgow, county of Lanark, Scotland. Ventilator	371,067	Oct. 4	477	120	41	95
Honeywell, C. D. (See Avery, Lyman S., assignor.)						
Honiss, William H. (See Lorenz and Honiss.)						
Honiss, William H., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Manufacture of paper tubing	365,815	July 5	77	22	40	16

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Honiss, William H., Hartford, assignor to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper-bag machine	374,361	Dec. 6	277	74	41	1099
Hood, Eunice, assignor of one-half to J. C. Cupler, Bradford, Pa. Apparatus for cutting garments	363,237	May 17	1649	433	39	797
Hood, Freeman W., Wellesley, Mass. Piston-meter	367,522	Aug. 2	246	70	40	498
Hood, Freeman W., Wellesley, Mass. Burnishing-machine for boots or shoes	371,941	Oct. 25	1729	447	41	367
Hood, Harvey H. (See Lindy and Hood.)						
Hood, Hiram Q., Wellington, Kans. Wind-wheel	361,875	Apr. 26	2138	{ 554 555 }	{ 39 }	421
Hood, Hiram Q., Wellington, Kans. Force-pump	373,367	Nov. 15	1654	{ 439 440 }	{ 41 }	793
Hood, John, and S. H. Reynolds, Boston, Mass. Inhaler	357,930	Feb. 15	1723	450	38	760
Hood, T. Howell, Norwich, Conn. Kink-preventer for silk-spinning machines	364,516	June 7	435	117	39	1170
Hook, Enos. (See Kingsley, George, assignor.)						
Hooker, John J., Tideswell, county of Derby, England. Mirror for obtaining true or positive reflections	370,623	Sept. 27	1914	508	40	1416
Hooker, William H., Jersey City, N. J. Light-supporting apparatus for vessels	357,709	Feb. 15	1412	371	38	703
Hookey, Samuel, and N. J. Reiter, Natrona, Pa. Wrench	361,287	Apr. 19	1295	332	39	257
Hooper, Alcaeus, Woodberry, Md. Time-recorder	369,450	Sept. 6	193	55	40	1069
Hooper, Amsey, Athens, Ohio. Ice-cream freezer	368,150	Aug. 9	1173	313	40	682
Hooper & Co., F. X. (See Hooper and Hollingsworth, assignors.)						
Hooper, Francis X., and W. Hollingsworth, assignors to F. X. Hooper & Co., Baltimore, Md. Machine for printing on boards	359,972	Mar. 22	2320	{ 583 584 }	{ 38 }	1360
Hooper, Francis X., and W. Hollingsworth, assignors to F. X. Hooper & Co., Baltimore, Md. Apparatus for drying coated sheets of paper	363,335	May 17	1784	{ 467 468 }	{ 39 }	823
Hooper, George N. and W., Westminster, London, England. Device for operating folding heads of carriages	356,470	Jan. 25	1680	439	38	343
Hooper, Irvin G., Newark, N. J. Friction-clutch	362,837	May 10	1088	{ 294 295 }	{ 39 }	683
Hooper, John D., New York, N. Y. Paper trimming and pasting machine	363,141	May 17	1521	403	39	772
Hooper, Mary P. C., New York, N. Y. Netting canopy for beds, &c	364,415	June 7	292	80	39	1144
Hooper, William. (See Hooper, George N. and W.)						
Hooper, William J. (See Price, George W., assignor.)						
Hoopes, William, West Chester, Pa. Machine for turning irregular forms	372,796	Nov. 8	775	{ 208 209 210 }	{ 41 }	623
Hooton, Marsena M., Chicago, Ill. Sheaf-discharger for grain-binding harvesters	374,303	Dec. 6	187	50	41	1082
Hooton, Marsena M., assignor to himself and C. G. Page, Chicago, Ill. Indicator and advertising apparatus	373,892	Nov. 29	2424	{ 651 652 }	{ 41 }	960
Hoover, Daniel R. (See Blackwelder, Manly L., assignor.)						
Hoover, Eleazer, and J. F. Winans, Springfield, Mo. Feed-steamer	370,787	Oct. 4	51	13	41	12
Hoover, Ellis H., West Milton, Ohio. Automatic grain-weigher	374,362	Dec. 6	278	74	41	1099
Hoover, Frank. (See Harper and Hoover.)						
Hoover & Gamble. (See Brown, Owen D., assignor.)						
Hoover, Louis H., St. Louis, Mo. Tack-hammer	365,255	June 21	1533	399	39	1389
Hope, John, Jr., assignor of one-half to W. V. Daball, Providence, R. I. Automatic switch for street-railways	362,158	May 3	146	43	39	502
Hopedale Elastic Fabric Company. (See Lapworth, William, assignor.)						
Hopedale Machine Company. (See Bancroft, William, assignor.)						
Hopkins, Cabel B., assignor to himself and O. E. Robinson, Louisville, Ky. Money-changer	358,270	Feb. 22	2208	{ 582 583 }	{ 38 }	855
Hopkins, Charles H., and G. W. Knight, Lyndonville, Vt. Jack-screw	371,068	Oct. 4	479	120	41	95
Hopkins, David A. (See Stevens, William J., assignor.)						
Hopkins, Edwin F., Oberlin, Ohio, assignor to G. W. Gibson and A. R. Newton. Thill-coupling	372,150	Oct. 25	2049	525	41	424
Hopkins, George M. and I. N., Brooklyn, N. Y. Caloric engine	374,123	Nov. 29	2755	{ 740 741 }	{ 41 }	1024
Hopkins, George W. (See Hopkins, Joseph W., assignor.)						
Hopkins, Harvey L., Chicago, Ill. Harvester-pitman	357,007	Feb. 1	370	98	38	491
Hopkins, Harvey L., Chicago, Ill. Mowing-machine	360,019	Mar. 29	2403	{ 608 609 }	{ 38 }	1382
Hopkins, Henry C., Jr., Covington, Ky. Clothes-wringer	356,641	Jan. 25	1929	505	38	390
Hopkins, Hiram L., assignor of one-half to L. A. Bryan, Homer, Mich. Steam-engine	361,063	Apr. 12	961	243	39	183
Hopkins, Horace N., Garnett, Kans. Barrel-roller	363,744	May 24	2381	618	39	946
Hopkins, I. Newton. (See Hopkins, G. M. and I. N.)						
Hopkins, Joseph W., assignor to himself and G. W. Hopkins, Brooklyn, N. Y. Rotary water-meter	355,821	Jan. 11	735	192	38	151
Hopkins, L. Le Grand. (See Burnett, William H., assignor.)						
Hopkins, Lafayette B., Council Grove, Kans. Bed-slat fastener	372,913	Nov. 8	953	257	41	655
Hopkins, Leslie, Miles Grove, Pa. Clothes-drier	369,245	Aug. 30	2714	721	40	1006
Hopkins, William, Dubuque, Iowa, assignor to Rasmussen Cable Company, Chicago, Ill. Cable railway	373,979	Nov. 29	2548	685	41	984
Hopkins, William G., Providence, R. I. Button or stud	359,677	Mar. 22	1848	469	38	1275
Hopkirk, Mary E. C., Agency, Iowa. Hat-protector	357,200	Feb. 8	682	176	38	556
Hoppel, Louise B., assignor of one-half to W. Ketterer, Lyons, N. Y. Medical compound	375,706	Dec. 27	2191	.....	41	1493
Hopper, Helen L., (formerly Helen L. Smith,) Hutchinson, Kans. Apparatus for preparing canned food	374,909	Dec. 13	1068	279	41	1263
Hopper, Henry S., Detroit, Mich. Water-tank valve	362,963	May 17	1283	340	39	725
Hoppes, John J., Springfield, Ohio. Feed-water heater and purifier	369,712	Sept. 13	550	{ 151 152 }	{ 40 }	1149
Hoppes, John J., Springfield, Ohio. Feed-water heater and purifier	369,713	Sept. 13	553	152	40	1149
Hoppes, John J., Springfield, Ohio. Feed-water heater and purifier	369,714	Sept. 13	555	152	40	1150
Hopping, George L., assignor to R. Tarrant, Chicago, Ill. Friction-clutch	370,332	Sept. 20	1461	392	40	1325
Hopson, John, Jr., and L. S. Daniels, New London, Conn. Sectional boiler	358,449	Mar. 1	37	11	38	910
Hopson, John, Jr., and L. S. Daniels, New London, Conn. Radiator	373,070	Nov. 15	1192	318	41	708
Horbaczewski, Edmond, Vienna, Austria-Hungary. Roof	370,259	Sept. 20	1360	{ 364 365 }	{ 40 }	1306
Hord, Willis, Woodland, Mo. Transfer-float for railway-cars	359,077	Mar. 8	955	{ 244 245 }	{ 38 }	1086
Horn, Charles C., Waterbury, Conn. Crucible cap and guard	357,958	Feb. 15	1757	458	38	766
Horn, David, Cartersville, Ill. Velocipede	373,980	Nov. 29	2550	{ 685 686 }	{ 41 }	984
Horn, Frank N., et al. (See Healy, Byron J., assignor.)						
Horn, George E., Chicago, Ill. Combined whip-socket and rein-holder	357,674	Feb. 15	1365	359	38	693

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Horn, Henry E., Denver, Colo. Back-stay fastening for carriage-tops	368,473	Aug. 16	1649	440	40	782
Horn, Joseph V., Philadelphia, Pa. Gas or other cock	363,639	May 24	2231	578	39	918
Hornaday, Thomas B., Indianapolis, Ind., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Electric lock	368,212	Aug. 16	1264	337	40	707
Hornbeck, Cornelius F., Owego, N. Y. Running-gear	358,395	Feb. 22	2379	632	38	888
Hornberger, Louis, and G. L. Cooper, assignors to E. Miller & Company, Meriden, Conn. Hanging lamp	375,536	Dec. 27	1936	507	41	1447
Horne, John. (See Montague, Charles C., assignor.)						
Horne, William L., Meriden, Conn. Cash indicator and register	357,959	Feb. 15	1758	{ 459 460 461 462 }	38	767
Horne, William L., Meriden, Conn. Electric fire-alarm	357,960	Feb. 15	1765	463	38	768
Horne, William L., Meriden, Conn. Apparatus for producing a vacuum	372,069	Oct. 25	1929	497	41	401
Horne, William L., Meriden, Conn. Apparatus for producing a vacuum	372,070	Oct. 25	1930	498	41	402
Horne, William L., Meriden, Conn. Car-heater	372,071	Oct. 25	1932	498	41	402
Horne, William L., Meriden, Conn. Motor and vacuum engine	372,072	Oct. 25	1934	499	41	402
Horne, William Y., and J. Danz, Jr., St. Paul, Minn. Wood-jacketed shipping-can	371,586	Oct. 18	1202	314	41	252
Horneffer, Fred L. (See Nordberg, Bruno V., assignor.)						
Horner, Ira B., Weston, Ohio. Fence	375,292	Dec. 20	1609	422	41	1375
Hornich, William, Newark, N. J. Collet or shell die for button-making	374,741	Dec. 13	815	214	41	1215
Hornich, William, assignor to Thalheimier Bros., Newark, N. J. Button-die	372,622	Nov. 1	496	135	41	564
Hornig, Alexander, Sandusky, Ohio. Millstone-pick	366,959	July 19	1651	443	40	329
Hornish, Frank W., Mattoon, Ill. Boiler-cleaner	370,060	Sept. 20	1081	286	40	1253
Hornor, Levi, <i>et al.</i> (See Mathews, Leroy M., assignor.)						
Hornung, Anton N., Chicago, Ill. Barber's chair	355,872	Jan. 11	815	213	38	165
Horsefield, William, Morristown, N. J. Ladder	373,981	Nov. 29	2553	686	41	985
Horstick, John E., near Harrisburg, Pa. Lever cider-press	372,914	Nov. 8	954	258	41	655
Horton, Alanson, and B. J. Wright; said Wright assignor to N. J. Wright, Hammondsport, N. Y. Feeding air to steam-boiler furnaces	368,670	Aug. 23	1919	510	40	843
Horton, Angell & Co. (See Angell, Benjamin J., assignor.)						
Horton, Angell & Co. (See Appleton, William, assignor.)						
Horton, Elijah W., West Point, Wis. Side-hill plow	363,238	May 17	1650	433	39	798
Horton, Ervin R., Needham, Mass. Music or paper holder	363,142	May 17	1523	403	39	772
Horton, Everett, Bristol, Conn. Fishing-rod	359,153	Mar. 8	1053	274	38	1105
Horton, George. (See Horton, Peter D. and G.)						
Horton, Gilbert D., Snohomish, Wash. Ter. Stereoscope	365,256	June 21	1534	400	39	1389
Horton, James A., Reading, Mass. Cut-off valve	355,993	Jan. 11	999	263	38	203
Horton, James A., Reading, Mass. Power-press	361,158	Apr. 12	1114	282	39	211
Horton, James A., Reading, Mass. Cut-off valve	375,067	Dec. 20	1310	342	41	1316
Horton, Peter D., Oakland, Cal. Slate washer and wiper	358,119	Feb. 22	2001	527	38	815
Horton, Peter D., assignor to F. Getchell, Oakland, Cal. Inkstand or ink-container	368,587	Aug. 23	1806	481	40	821
Horton, Peter D., assignor to F. Getchell, Oakland, Cal. Toy catapult	368,588	Aug. 23	1806	481	40	821
Horton, Peter D. and G., assignors to F. Getchell, Oakland, Cal. Pen-wiper	368,589	Aug. 23	1807	481	40	821
Horton, William T., and D. R. Siefkin, Blue Earth City, Minn. Cover for spring bed-bottoms	369,791	Sept. 13	653	178	40	1167
Horwitz, Josef, New York, N. Y. Fire-escape	355,994	Jan. 11	1001	263	38	203
Hoseus, Henry, Brooklyn, N. Y. Tambourine	356,767	Feb. 1	35	10	38	430
Hosford, Elihu, Oakland, Cal. Boiler for heating water for bathing or other purposes	358,271	Feb. 22	2214	583	38	856
Hosford, Elihu, Oakland, Cal. Vapor-bath	360,773	Apr. 5	533	138	39	100
Hosford, John, Boston, Mass. Bustle	366,217	July 12	641	174	40	129
Hospes, Ernest L., and L. N. Bergeron, Stillwater, Minn. Conveyer for saw-mill refuse	367,102	July 26	1852	500	40	374
Hospes, Ernest L., and L. N. Bergeron, Stillwater, Minn. Dumping-wagon	367,103	July 26	1853	500	40	374
Hosser, Frederick, St. Louis, Mo. Button	356,768	Feb. 1	36	11	38	430
Hostetter, John F., Philadelphia, Pa. Gage for floor-boards	369,988	Sept. 13	965	255	40	1224
Hotchkiss, Charles A., assignor to Ives, Blakeslee & Co., Bridgeport, Conn. Mechanical toy	368,833	Aug. 23	2151	570	40	886
Hotchkiss, Edward S., Bridgeport, Conn. Saw-setting tool	360,882	Apr. 12	694	182	39	136
Hotchkiss, James F., New York, N. Y. Fountain for pens	368,590	Aug. 23	1808	482	40	821
Hotchkiss, John C., Bridgeport, Conn. Suspender-hook	366,317	July 12	776	210	40	155
Hotchkiss Ordnance Company. (See Koerner, Alfred C., assignor.)						
Hoteling, Charles J. (See Snyder and Hoteling.)						
Hotham, John, Hillside, Pa. Lime-distributor	365,519	June 28	1932	503	39	1479
Hotham, John, Hillside, Pa. Knockdown box	371,322	Oct. 11	832	213	41	171
Hott, Augustus L., Cincinnati, Ohio. Telephone-holder	371,757	Oct. 18	1450	375	41	303
Höttges, Emil. (See Heidmann, Höttges, and Egen.)						
Hottmann, Charles W., Philadelphia, Pa. Meat-cutting machine	363,465	May 24	1966	514	39	865
Hotze, John K., St. Louis, Mo. Bridle	357,008	Feb. 1	371	98, 99	38	491
Houchin, Alfred W., Brooklyn, N. Y. Type-writing machine	363,896	May 31	2590	{ 673 774 }	39	992
Houchin, Thomas W., C. B. Riker, and W. P. Houchin, New York, N. Y. Atomizer and insect-destroyer	361,010	Apr. 12	891	225	39	169
Houchin, Waldo P. (See Houchin, Riker, and Houchin.)						
Honger, Thorn S., Centre Creek, Minn. Harvester cutting apparatus	359,256	Mar. 15	1195	312	38	1138
Hough, Benjamin F., Sandusky, Ohio. Burglar-alarm	367,523	Aug. 2	248	71	40	499
Hough, Murray P., Chicago, Ill. Skeleton cigar-holder	363,391	May 24	1856	488	39	846
Hough, Robert B., assignor to M. Griswold, Erie, Pa. Cooking-utensil holder	367,633	Aug. 2	405	112	40	528
Houghtaling, Franklin P., Coldwater, Mich. Land-roller	356,835	Feb. 1	127	35	38	446
Houghton, Alfred A., Buffalo, N. Y. Weighing-scale	362,628	May 10	798	{ 218 219 }	39	628
Houghton, Stanley W. (See Brooks, Abercrombie, and Houghton.)						
Houghton, Thomas J., Lancaster, Pa. Harness-attaching device for vehicles	357,600	Feb. 15	1254	329	38	674
Hoult, Cyrus, and T. W. Heinemann, Chicago, Ill.; said Hoult assignor to said Heinemann. Woven fabric	356,836	Feb. 1	128	35	38	447
Haupt, H. (See Swartz, Oliver E., assignor.)						
Haupt, William H., <i>et al.</i> (See Chambers, Daniel T., assignor.)						
Housatonic Brass Corporation. (See Underwood, Judson B., assignor.)						
House, Columbus H. (See Graves, Thomas C., assignor.)						
House, Francis E. (See Campbell and House.)						
House, Henry A., assignor to Compressed Paper Box Company, Bridgeport, Conn. Paper-box machine	365,072	June 21	1264	334	39	1340
House, Henry A., and Henry A., Jr., Bridgeport, Conn. Combined door spring and buffer	367,634	Aug. 2	406	{ 112 113 }	40	528
House Improved Telephone Company. (See House, Warren D., assignor.)						
House, James A. (See Gilbert, Henry W., assignor.)						
House, James A., Bridgeport, Conn. Sewing-machine	364,719	June 14	721	192	39	1232

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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House, James A., Bridgeport, Conn. Eyeletting-machine	369,246	Aug. 30	2716	{ 722 723 }	{ 40 }	1006
House, Warren D., Kansas City, Mo., assignor, by mesne assignments, to House Improved Telephone Company, Philadelphia, Pa. Telephone	358,812	Mar. 1	576	144	38	1010
Household Fire Extinguisher Company. (See Turner, Thomas G., assignor.)						
Housel, George W., Bloomsbury, N. J. Automatic railway-crossing gate	366,836	July 19	1491	{ 398 399 }	{ 40 }	297
Housel, George W., Bloomsbury, N. J. Railway-train timer	375,160	Dec. 20	1446	378	41	1342
Houseman, Thomas R., and C. B. M. Sprowles, Philadelphia, Pa. Machine for drying and pressing tallow rendering	361,789	Apr. 26	2008	{ 522 523 }	{ 39 }	397
Houser, Frank C., <i>et al.</i> (See Slappey, William A., assignor.)						
Houston, Edwin J., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electric motor	356,878	Feb. 1	195	54	38	457
Houston, Emmet P., Covington, Ky., assignor of one-half to W. H. Fisher, Cincinnati, Ohio. Apparatus for broiling, roasting, &c	363,519	May 24	2053	534	39	884
Houston, Frederick F., Chicago, Ill. Clamp	357,387	Feb. 8	930	245	38	603
Houston, Frederick F., Chicago, Ill. Clamp	370,541	Sept. 27	1784	476	40	1391
Houston, George T., <i>et al.</i> (See Kirby, James A., assignor.)						
Houston, Ulysses G., Valparaiso, Ind. Planetarium	367,104	July 26	1854	{ 500 501 }	{ 40 }	375
Houze, Luc. (See Huidekoper and Houze.)						
Hovey, A. N., <i>et al.</i> (See Kimball, Freddie C., assignor.)						
Hovey, Ansel N., Jackson, Mich. Checkrein-hook	367,400	Aug. 2	63	16	40	463
Hovey, E. H., <i>et al.</i> (See Kimball, Freddie C., assignor.)						
Hovey, Henry J., and G. R. Hardison, Gouldsborough, Me. Machine for manufacturing spool-blanks	372,372	Nov. 1	131	39	41	495
Hovey, William H., assignor of one-half to S. A. Ryan, Springfield, Mass. Ale or beer faucet	368,768	Aug. 23	2064	547	40	869
Howard, Alfred H., Boston, Mass. Exercising-machine	356,126	Jan. 18	1201	319	38	246
Howard, Charles D., Syracuse, N. Y. Hot-air and steam heater	362,838	May 10	1090	295	39	683
Howard, Clem. (See Coleman and Howard.)						
Howard, DeWitt C., and W. H. Burden, Cleveland, Ohio. Heating-furnace	374,965	Dec. 20	1165	304	41	1290
Howard, Ebenezer, London, England. Type-writing machine	361,876	Apr. 26	2140	555	39	422
Howard, Edmund L., Jacksonville, Fla., assignor of one-half to J. A. Cloud, Philadelphia, Pa. Air-injector for steam-pumps	367,524	Aug. 2	249	71	40	499
Howard, Everett R. (See Gates, Roswell W., assignor.)						
Howard, Everett R., assignor of one-half to R. W. Gates, Aurora, Ill. Furnace	355,318	Jan. 4	35	10	38	8
Howard, Everett R., assignor of one-half to R. W. Gates, Aurora, Ill. Smoke and gas consuming attachment for stoves or furnaces	356,837	Feb. 1	129	35	38	447
Howard, George A., W. H. Hull, and C. S. Black, Buchanan, Mich. Door-check	373,774	Nov. 22	2256	605	41	920
Howard, George R. (See Shawhan, Richard J., assignor.)						
Howard, Harlan S., Madison, Wis. Harrow-tooth fastening	363,640	May 24	2232	578	39	918
Howard, Henry, <i>et al.</i> (See Baviile, Edmond P., assignor.)						
Howard, Henry G. M., Kalamazoo, Mich. Two-wheeled vehicle	361,288	Apr. 19	1296	332	39	257
Howard, Henry G. M., Kalamazoo, Mich. Two-wheeled vehicle	367,105	July 26	1855	501	40	375
Howard, Henry G. M., Kalamazoo, Mich. Two-wheeled vehicle	372,676	Nov. 8	582	158	41	590
Howard, Henry G. M., and R. Brayton, Kalamazoo, assignor of one-third to A. Wood, Grand Rapids, Mich. Two-wheeled vehicle	363,520	May 24	2055	534	39	885
Howard, Hiram, <i>et al.</i> (See Lyon, Baxter, assignor.)						
Howard, James H., Boston, assignor to R. C. Elliott, trustee, Somerville, Mass. Mechanical telephone	357,995	Feb. 15	1817	477	38	778
Howard, John. (See Lowman and Howard.)						
Howard, John D., assignor of one-half to J. W. Freeman, Zincite, Mo. Plunger for deep-well pumps	357,149	Feb. 1	603	155	38	532
Howard, John W., <i>et al.</i> (See Solano, Renaldo, assignor.)						
Howard, Leonard D., St. Johnsbury, Vt. Machine-table	356,642	Jan. 25	1929	{ 505 506 }	{ 38 }	391
Howard, Leonard S., Alfred Centre, N. Y. Milk cooling and straining device	370,870	Oct. 4	177	47	41	35
Howard, Lyman D., Philadelphia, Pa. Conveyor for grain, ore, coal, or earth	359,154	Mar. 8	1054	274	38	1105
Howard, Stephen C., <i>et al.</i> (See Lyon, Baxter, assignor.)						
Howard Watch and Clock Company, E. (See Carr, Rufus B., assignor.)						
Howard Watch and Clock Company, E. (See Learned, William B., assignor.)						
Howard Watch and Clock Company, E. (See Murray, Leonidas, assignor.)						
Howard, William C. (See De Graff, James W., assignor.)						
Howe, Alfred J. (See Cuthbertson, John, assignor.)						
Howe, Clarence E., Marlborough, Mass. Coin-tray	363,239	May 17	1651	434	39	798
Howe, Eugene L., Cleveland, Ohio. Machine for making and attaching buckle-rollers	366,585	July 12	1142	{ 305 306 307 }	{ 40 }	227
Howe, Eugene L., Cleveland, Ohio. Loop-closing machine	370,143	Sept. 20	1207	{ 319 320 }	{ 40 }	1276
Howe, John, Providence, R. I. Spark and smoke conductor	360,883	Apr. 12	695	183	39	136
Howe, John B., and F. D. Fry, assignors to said Fry and V. E. Barnum, Danbury, Conn. Hat-block	357,996	Feb. 15	1819	478	38	778
Howe, John C., Worcester, Mass. Revolving fire-arm	357,710	Feb. 15	1414	372	38	703
Howe, John C., assignor to S. Forehand, Worcester, Mass. Revolving fire-arm	373,893	Nov. 29	2431	{ 652 653 }	{ 41 }	961
Howe, John K., Troy, N. Y. Excavator	362,083	May 3	43	13, 14	39	481
Howe, Joshua O., assignor of one-third to S. B. Wylie, Bloomington, Ind. Lighting device	375,632	Dec. 27	2086	543	41	1474
Howe Manufacturing Company. (See Ballard and Fisher, assignors.)						
Howe, Patrick, assignor to I. Fenno, R. D. Goodwin, C. M. Blake, Boston, A. K. Tolman, Newton, and H. G. Hartshorne, Wakefield, Mass. Cloth-cutting machine	359,570	Mar. 15	1676	428	38	1227
Howe, Solon G., assignor of one-half to C. A. Newcomb, Detroit, Mich. Car-coupling	369,523	Sept. 6	285	79, 80	40	1088
Howe, Thomas B., assignor of two-thirds to G. A. Clearwater and M. A. Goodwin, Scranton, Pa. Jar-fastener	370,394	Sept. 27	1562	418	40	1352
Howell, Benjamin, assignor to W. N. Whitelev, Springfield, Ohio. Annealing-furnace	363,292	May 17	1722	451	39	812
Howell, Byron C., New York, N. Y. Hydraulic dredging-machine	371,686	Oct. 18	1347	318	41	281
Howell, Charles, assignor to S. Kershaw, Glasgow, county of Lanark, Scotland. Umbrella	368,920	Aug. 23	2279	{ 606 607 }	{ 40 }	911
Howell, Charles A., Adrian, Mich. Cuff-holder	365,685	June 28	2174	568	39	1524
Howell, Frederick W., assignor to M. T. Howell, Buffalo, N. Y. Flour-packer	366,167	July 5	563	{ 151 152 }	{ 40 }	106
Howell, George W., Covington, Ky. Wheel	356,643	Jan. 25	1931	506	38	391

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Howell, George W., Covington, Ky. Wheel	360,156	Mar. 29	2639	667	38	1424
Howell, George W., Covington, Ky. Wheel	369,641	Sept. 6	458	128	40	1122
Howell, James A., and H. A. Pooler, Goshen, N. Y., assignors of one-half to C. A. Cooper, Oil City, Pa., and E. W. Martin, New York, N. Y. Centrifugal creamer	366,483	July 12	982	266	40	195
Howell, John A., Washington, D. C. Shell for high explosives	373,459	Nov. 22	1788	476	41	831
Howell, John W., New Brunswick, N. J. Electric-current indicator	356,041	Jan. 11	1064	{ 279 280 }	{ 38 38 }	{ 215 215 }
Howell, John W., New Brunswick, N. J. Electric-current indicator	356,042	Jan. 11	1066	280	38	215
Howell, John W., New Brunswick, N. J. Electrical distribution	372,797	Nov. 8	784	{ 210 211 }	{ 41 41 }	{ 625 625 }
Howell, John W., New Brunswick, N. J. Electrical distribution	372,798	Nov. 8	787	211	41	625
Howell, John W., New Brunswick, N. J. Electrical distribution	372,799	Nov. 8	789	211	41	626
Howell, John W., New Brunswick, assignor to Edison Lamp Company, Harrison, N. J. Galvanic battery	373,021	Nov. 8	1116	297	41	684
Howell, Margaret T. (See Howell, Frederick W., assignor.)						
Howell, Robert R., Minneapolis, Minn. Automatic grain meter and register	373,662	Nov. 22	2099	561	41	890
Howell, Samuel E., Sheffield, county of York, England. Window-blind apparatus	367,143	July 26	1910	516	40	384
Howell, William G., Philadelphia, Pa. Iron-rolling mill	363,293	May 17	1724	452	39	812
Howell, William G., assignor of one-third to G. H. Boker, Philadelphia, Pa. Pile for skelp-iron	359,508	Mar. 15	1567	402	38	1206
Howells, William H., Bridgeport, Ohio. Mechanism for reducing old rails to rails of small size	366,395	July 12	878	235	40	173
Howells, William P. (See McGlynn and Howells.)						
Howes, Frank H., East Orange, N. J. Lock-nut	361,289	Apr. 19	1297	332	39	258
Howes, George, Kansas City, Mo. Kiln for burning sewer-pipes	374,678	Dec. 13	726	191	41	1198
Howes, John, Worcester, Mass. Filtering apparatus	360,441	Apr. 5	65	17, 18	39	14
Howes, John, Worcester, Mass. Water-service system and appliance for buildings	360,697	Apr. 5	433	111	39	80
Howes, William K., Strong, Me. Vehicle-seat	355,319	Jan. 4	36	10	38	9
Howes, William K., Strong, Me. Hammer	356,248	Jan. 18	1360	359	38	276
Howland, Stephen H., assignor of one-half to C. E. Buell, Springfield, Mass. Steam-trap	363,641	May 24	2233	578	39	918
Howson, Frank A., Brooklyn, N. Y. Venetian blind	366,837	July 9	1496	399	40	299
Howson, Henry, Philadelphia, Pa. Coupling for electric wires	355,611	Jan. 4	411	113	38	82
Hoyer, John L., Cleveland, Ohio. Railway-switch	361,699	Apr. 26	1877	486	39	374
Hoyle, Henry. (See Whitley, Thomson, and Hoyle.)						
Hoyt, Benjamin R. (See Fracher and Hoyt.)						
Hoyt, Dennis A., St. Cloud, Minn. Dam	361,290	Apr. 19	1299	333	39	258
Hoyt, Frederick J., assignor to S. M. Hoyt, Chicago, Ill. Spring track-crossing	371,587	Oct. 18	1203	314	41	252
Hoyt, Henry M., Seattle, Wash. Ter. Oar-lock	369,715	Sept. 13	557	152	40	1150
Hoyt, Henry T., et al. (See Sanford, Charles H., assignor.)						
Hoyt, James B., Troy, N. Y. Calking-boot for horses	370,788	Oct. 4	52	13	41	13
Hoyt, James T., New York, N. Y. Cabinet for paper and other materials	369,642	Sept. 6	460	128	40	1122
Hoyt, John, Manchester, N. H. Beater-roll for pulp-engines	372,978	Nov. 8	1047	280	41	672
Hoyt, John C., Sedalia, Mo. Edging and joint plate for concrete pavements	368,398	Aug. 16	1526	408	40	759
Hoyt, Lewis S., Boston, Mass. Bottle-stopper	361,417	Apr. 19	1172	381	39	290
Hoyt, Lucius P., Aurora, Ill. Adjustable gearing	358,930	Mar. 8	766	191	38	1050
Hoyt, Richard H., Buffalo, N. Y. Machine for pressing boxes	372,537	Nov. 1	370	100	41	541
Hoyt, Royal E., Muscoda, Wis. Spring clothes-pin	356,127	Jan. 18	1202	319	38	246
Hoyt, Sarah M. (See Hoyt, Frederick J., assignor.)						
Hoyt, Sarah M., Chicago, Ill. Paving-block	364,928	June 14	1044	273	39	1290
Hoyt, William H., Stamford, Conn. Ornamental veneer	364,416	June 7	294	81	39	1144
Huard, Georges H., Paris, France. Apparatus for transposition of music	363,392	May 24	1857	489	39	846
Hub Carbon Company. (See Wilder, Charles H., assignor.)						
Hubbard, Collins B., et al. (See Pungs, William A., assignor.)						
Hubbard, Fred W., assignor to Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Road-scraper	359,537	Mar. 15	1615	414	38	1216
Hubbard, Fredrick, Berlin, Conn. Fishing hook and line	372,677	Nov. 8	582	158	41	590
Hubbard, Frederick J., assignor to Adams & Westlake Manufacturing Company, Chicago, Ill. Vapor-burner	371,942	Oct. 25	1731	447	41	367
Hubbard, John H. and W. B., Greenville, Ill. Siding or weather-boarding gage	372,221	Oct. 25	2154	552	41	444
Hubbard, Lauthlin B. (See Adams, Andrew H., assignor.)						
Hubbard, Moses G., Philadelphia, Pa. Friction-clutch	362,084	May 3	47	14	39	481
Hubbard, Moses G., Philadelphia, Pa. Car-starter	369,004	Aug. 30	2400	637	40	944
Hubbard, Moses G., Philadelphia, Pa., assignor to Momentum Car Brake Company, (limited.) Combined brake and car-starter	362,159	May 3	147	43, 44	39	502
Hubbard, Nathan B. (See Phillips, Francis V., assignor.)						
Hubbard, O. M. (See Beaty, David B., assignor.)						
Hubbard, Orange B., Lowell, Mass. Clothes-drier	360,526	Apr. 5	195	48	39	38
Hubbard, Sherman H., and S. S. Williamson, assignors to T. P. Taylor, Bridgeport, Conn. Bustle	372,800	Nov. 8	791	212	41	626
Hubbard, Sherman H., and S. S. Williamson, assignors to T. P. Taylor, Bridgeport, Conn. Bustle	372,801	Nov. 8	792	212	41	626
Hubbard, Sherman H., and S. S. Williamson, assignors to T. P. Taylor, Bridgeport, Conn. Bustle	372,802	Nov. 8	793	212	41	626
Hubbard, William B. (See Hubbard, John H. and W. B.)						
Hubbell, Charles E. (See Gibson, J. Harper, assignor.)						
Hubbell, Frederick R. (See Hubbell, Richard and F. R.)						
Hubbell, Harvey, Norwich, Conn. Device for feeding and delivering toilet-paper	369,855	Sept. 13	752	{ 201 202 }	{ 40 40 }	{ 1185 1185 }
Hubbell, Oliver C., Cleveland, Ohio. Gage-comb	357,201	Feb. 8	683	177	38	557
Hubbell, Richard and F. R., Lake View, Ill. Grate	358,555	Mar. 1	219	50	38	944
Hubbell, Richard, and G. W. Bisbee, Lake View, Ill. Attachment for billiard-tables	368,531	Aug. 16	1729	460	40	796
Hubbell, Stephen J., Lupton, Colo. Shipping-can	368,399	Aug. 16	1527	408	40	760
Hubbell, Wilbur F., Wauseon, Ohio. Cultivator	367,982	Aug. 9	942	255	40	639
Hubber, James W., assignor of one-half to A. Altmayer, San Francisco, Cal. Smoke-consuming furnace	365,342	June 21	1653	432	39	1412
Hubel, Frederick A., Detroit, Mich. Machine for cutting off gelatine capsules. (Reissue)	10,807	Feb. 8	1201	{ 315 316 }	{ 38 38 }	{ 655 655 }
Huber, Berthold, Taunton, Mass. Chromatic-printing machine	368,338	Aug. 16	1450	385	40	744
Huber, Berthold, assignor to Huber Printing Press Company, Taunton, Mass. Chromatic-printing machine	368,532	Aug. 16	1730	460	40	797
Huber, Berthold, assignor to Huber Printing Press Co., Taunton, Mass. Perfecting cylinder printing-machine	370,789	Oct. 4	53	13, 14	41	13
Huber, Berthold, and W. K. Hodgman, Taunton, Mass. Inking apparatus for printing-machines	368,339	Aug. 16	1452	385	40	744

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Huber, Edward, Marion, Ohio. Lifting-jack	362,085	May 3	48	14	39	482
Huber, Edward, Marion, Ohio. Lifting-jack	375,675	Dec. 27	2146	558	41	1485
Huber, Edward, H. M. Barnhart, and G. W. King, Marion, Ohio. Brace for dredging-machines	364,761	June 14	794	{ 209 210 }	{ 39 }	1244
Huber, Ernest, <i>et al.</i> (See Kneuper, Frederick J., assignor.)						
Huber, Joseph, Alta Vista, Iowa. Bag-holder	365,686	June 28	2175	568	39	1524
Huber, Louis C., Louisville, Ky. Winding-up device	366,586	July 12	1147	307	40	228
Huber, Louis C., Huber, Ky. Mail-bag	371,888	Oct. 18	1652	426	41	343
Huber, Louis C., Huber, assignor to Eureka Light Manufacturing Company, Louisville, Ky. Gas-generating machine	366,168	July 5	567	{ 152 153 }	{ 40 }	107
Huber Printing Press Company. (See Hodgman and Cheney, assignors.)						
Huber Printing Press Company. (See Huber, Berthold, assignor.)						
Hubert, Philipp, Buda-Pesth, Austria-Hungary. Automatic oil-injector	369,524	Sept. 6	291	80.81	40	1089
Hubert, Philip G., New York, N. Y. Storage-warehouse and storing materials	372,850	Nov. 8	861	230	41	638
Hubert, Philip G., New York, N. Y. Water-closet	375,068	Dec. 20	1312	343	41	1316
Hubler, Harvey, assignor of one-half to E. L. Peters, West Salem, Ohio. Swinging gate	358,396	Feb. 22	2380	633	38	888
Hübner, Paul F., Zschoppau, Germany. Engine	356,538	Jan. 25	1771	461	38	360
Huckins, Chester M., West Topsham, Vt. Bridle-bit	356,043	Jan. 11	1068	281	38	215
Huckleberry, Charles R., and F. W. Reese, Paris, Ill. Broom-corn harvester	362,511	May 10	622	{ 175 176 }	{ 39 }	598
Hudson, C. Columbus, Elmira, N. Y. Case for displaying tubes and vials	372,222	Oct. 25	2155	{ 552 553 }	{ 41 }	444
Hudson, Charles E., assignor to C. E. Hudson & Co., Leominster, Mass. Apple-paring machine	360,527	Apr. 5	196	48.49	39	38
Hudson & Co., C. E. (See Hudson, Charles E., assignor.)						
Hudson, Elisba H., Pottersville, Mich. Shovel	355,648	Jan. 4	479	128	38	94
Hudson, Henry J., Blackfriars Road, county of Surrey, England, assignor to Pope Manufacturing Company, Portland, Me. Velocipede	375,707	Dec. 27	2191	570	41	1493
Hudson, S. Terry, Riverhead, N. Y. Cultivator	357,202	Feb. 8	684	177	38	557
Hudson, Thomas C., Providence, R. I. Bracelet	365,257	June 21	1535	400	39	1389
Hudson, William H., assignor to Hudson & Zeltner, New York, N. Y. Car-bell	363,958	May 31	2701	699	39	1011
Hudson, William H., assignor to himself and J. E. Zeltner, New York, N. Y. Car-bell	372,265	Oct. 25	2219	568	41	457
Hudson & Zeltner. (See Hudson, William H., assignor.)						
Hue, L. Victor, New York, N. Y. Manufacturing ornamental glassware	355,649	Jan. 4	481	128	38	94
Hue, Leon V., Phillipsburg, Pa. Manufacture of hollow glassware	364,929	June 14	1045	273	39	1290
Huebl, Joseph, Marshfield, Wis. Kitchen-cabinet	362,160	May 3	151	44	39	502
Huestis, Benjamin N., assignor of one-half to E. W. Brennen, New York, N. Y. Artificial ear-drum	366,838	July 19	1497	400	40	299
Huether, George, New York, N. Y. Book-binding band	365,520	June 28	1934	503	39	1479
Huether, George, Brooklyn, N. Y. Book-binding	375,488	Dec. 27	1874	490	41	1435
Huewe, George A., assignor to T. C. Bradford, Cincinnati, Ohio. Ear-piece for telephones	367,003	July 19	1703	458	40	338
Huewe, George A., assignor to T. A. Bradford, Cincinnati, Ohio. Ear-piece for telephones	367,004	July 19	1704	{ 458 459 }	{ 40 }	338
Huey, Byers W., Windsor, Mo. Stove-pipe cleaner	364,255	June 7	74	21	39	1103
Huey Manufacturing Company. (See Huey, William, assignor.)						
Huey, William, Seaford, Del., assignor to Huey Manufacturing Company. Combined shaping and sawing machine	371,504	Oct. 11	1087	283	41	221
Hufeland, Phillip, New York, assignor to P. Wiederer, Stapleton, N. Y. Mirror	365,183	June 21	1423	375	39	1369
Huff, Francis M., and J. Taylor, Warren, Ind. Flour and meal chest	358,155	Feb. 22	2053	540	38	825
Huff, George A., Englewood, Ill. Snap-hook	370,333	Sept. 20	1462	393	40	1326
Huff, Isaac L. (See Edington, Isaac B., assignor.)						
Huff, Robert E., Eureka, Kans. Sirup-pump	363,336	May 17	1786	468	39	823
Huff, Robert E., Eureka, Kans. Sirup and measuring pump	364,930	June 14	1047	{ 273 274 }	{ 39 }	1290
Hüfner, Carl, Stuttgart, Württemberg, Germany. Scarf-pin	357,318	Feb. 8	834	218	38	585
Huffman, William, Clinton, Iowa. Locomotive head-light	358,038	Feb. 22	1872	495	38	794
Hufty, Samuel. (See Snyder and Hufty.)						
Huggins, Frederick, Birmingham, county of Warwick, England. Machinery for the manufacture of tubes	366,002	July 5	345	92.93	40	66
Hughes, Edward. (See Booth and Hughes.)						
Hughes, Frank G., Galt, Ontario, Canada. Fastening for dental flasks	367,401	Aug. 2	64	17	40	463
Hughes, George M., assignor to C. F. Milburn, Wagon Works, Ohio. Rolling-machine for tapering bars	368,671	Aug. 23	1920	{ 510 511 }	{ 40 }	843
Hughes, Henry D., Radnor, and E. Shallow, Philadelphia, Pa. Hydrocarbon-burner	364,931	June 14	1049	274	39	1291
Hughes, James J., New York, N. Y. Inking apparatus for printing-machines	371,323	Oct. 11	833	{ 213 214 }	{ 41 }	171
Hughes, John F., assignor of one-half to J. J. O'Rourke and E. A. Millar, Philadelphia, Pa. Indicator for railway-cars	371,889	Oct. 18	1653	427	41	343
Hughes, John G., Bootle, county of Lancaster, England. Metallic packing for stuffing-boxes	367,207	July 26	1988	{ 537 538 }	{ 40 }	401
Hughes, John M., Brooklyn, N. Y. Game	366,318	July 12	777	210	40	155
Hughes, Matthew M., Petoskey, Mich. Ladder	364,173	May 31	2995	778	39	1069
Hughes, Samuel. (See Todd, Wilmer L., assignor.)						
Hughes, Samuel T., Canonsburg, Pa. Mill for rolling car-wheels	366,109	July 5	484	131	40	91
Hughes, Theophilus V. (See Maxwell and Hughes.)						
Hughes, William, Minerva, Ohio. Adjustable screen-door	374,187	Dec. 6	34	9	41	1053
Hughes, William D., Washington, D. C. Knob attachment	355,650	Jan. 4	482	128	38	94
Hughey, Alfred W., Arcadia, Ind. Car-coupling	372,979	Nov. 8	1048	281	41	672
Hughs, Smith E., Philadelphia, Pa. Spring-motor	358,668	Mar. 1	370	88	38	972
Hugo, N. Frederick. (See Hugo, Trevanion W., assignor.)						
Hugo, Trevanion W., assignor of one-half to N. F. Hugo, Duluth, Minn. Automatic lubricator	360,157	Mar. 29	2640	667	38	1424
Hugon, John E., Richmond, Ind. Governor	356,644	Jan. 25	1932	506	38	391
Huguet, Hilarion A. B., Paris, France. Inhaling apparatus	369,247	Aug. 30	2718	723	40	1007
Hugus, H. G., <i>et al.</i> (See Duff, John T., assignor.)						
Huidekoper, Arthur C., and L. Houze, Meadville, Pa. Apparatus for making fuel-gas	375,161	Dec. 20	1448	379	41	1343
Hulbert Brothers. (See Hulbert, Orrin L., assignor.)						
Hulbert, Orrin L., assignor to Hulbert Brothers, St. Louis, Mo. Apparatus for making multiple photographic sheets	373,404	Nov. 15	1707	452	41	802
Hulbert, William A., Brooklyn, N. Y. Mailing vessel or case	359,212	Mar. 8	1132	295	38	1119
Hulet, Herbert A., Shaftsbury, Vt. Folding table	369,856	Sept. 13	753	202	40	1186
Hulett, George H., Cleveland, Ohio. Dumping apparatus	370,624	Sept. 27	1915	508	40	1416
Hulford, William J., and F. Tillotson, Lawrence, Mass. Picker-staff check for looms	374,835	Dec. 13	950	248	41	1241
Hull, Frederick A. (See Saunders, Theodore, assignor.)						
Hull, George, West Superior, Wis., and H. Kirk, Minneapolis, Minn. Weather-strip	362,964	May 17	1284	341	39	725

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Hull, Grummond & Co. (See Seymour, Edward W., assignor.)						
Hull, Herbert H., Cleveland, Ohio. Faucet and filler for cans.....	357,319	Feb. 8	835	218	38	585
Hull, Herbert H., Cleveland, Ohio. Faucet and filler for cans.....	364,821	June 14	891	235	39	1262
Hull, Jacob S. (See Knowlton, William F., assignor.)						
Hull, James W., <i>et al.</i> (See Rew, Richard A., assignor.)						
Hull, John S. (See Wagandt and Hull.)						
Hull, John S., Baltimore, Md. Hydrocarbon cooking-stove.....	358,931	Mar. 8	768	191	38	1050
Hull, Martin L., Cleveland, Ohio. Vapor-stove (Reissue).....	10,849	July 12	1226	327	40	242
Hull, William, Cincinnati, Ohio. Horse-collar.....	356,128	Jan. 18	1203	319	38	246
Hull, William H. (See Howard, Hull, and Black.)						
Hull, Wolcott A., <i>et al.</i> (See Griswold, James D., assignor.)						
Hull, Wolcott A., <i>et al.</i> (See Lyman, Charles H., assignor.)						
Hull, Wolcott A., <i>et al.</i> (See Woodward, George W., assignor.)						
Hull, Wolcott A., assignor of one-half to Ansonia Brass and Copper Company, New York, N. Y. Suspension-lamp.....	367,144	July 26	1911	516	40	384
Hull, Wolcott A., assignor of one-half to Ansonia Brass and Copper Company, New York, N. Y. Suspending device for lamps and shades.....	367,299	July 26	2142	576	40	428
Hulme, George B. (See Avery, Richard B., assignor.)						
Hulls, Jonathan. (See Pearce and Hulls.)						
Hults, Charles, Torch Lake, Mich. Low-water alarm and indicator for boilers.....	358,667	Mar. 1	369	88	38	972
Humbert, Alfred, Philadelphia, Pa. Watch-case spring.....	374,535	Dec. 6	524	137	41	1147
Humbert, Charles, Fils, Chaux de Fonds, Switzerland. Transparent dial for watches.....	363,959	May 31	2702	699	39	1011
Humbert, Charles H., Pittsburg, Pa. House-ventilation.....	355,822	Jan. 11	736	192	38	151
Humble, Robert, and J. McLeod, St. Paul, Minn. Connecting-rod.....	366,725	July 19	1346	360	40	272
Hume, George H. (See Hume, John S. and G. H.)						
Hume, John S. and G. H., Osawatomie, Kans. Fence-support.....	361,291	Apr. 19	1299	333	39	258
Hümpfner, Michael, Frankfort-on-the-Main, Germany. Device for sharpening scythes.....	375,708	Dec. 27	2192	570	41	1493
Humphrey, Henry P., Lowell, Mass., assignor to Lowell Oiler Company, Nashua, N. H. Hanger for shafting.....	373,071	Nov. 15	1193	318	41	708
Humphrey, James H., Platte City, Mo. Post-hole digger.....	363,745	May 24	2383	618	39	947
Humphrey, James H., Platte City, Mo. Post-hole digger.....	374,304	Dec. 6	192	51	41	1032
Humphrey, James H. and S. W., Platte City, Mo. Hay-gatherer.....	361,877	Apr. 26	2143	555 556	39	422
Humphrey, John P. (See French, Clinton, assignor.)						
Humphrey, Seth K., Faribault, Minn. Passenger-elevator.....	375,293	Dec. 20	1610	422	41	1375
Humphrey, Simeon W. (See Humphrey, James H. and S. W.)						
Humphrey, Thomas, New Brighton, N. Y. Head-rest for hammocks.....	355,873	Jan. 11	817	213	38	166
Humphrey, William. (See Knapp, McKenzie, and Humphrey.)						
Humphreys, Alfred. (See Molyneux, Barton S., assignor.)						
Humphreys, John C., Braxton Court-House, W. Va. Cutter-head.....	370,542	Sept. 27	1786	476	40	1392
Humphreys, William, Waterford, N. Y. Wrench.....	362,278	May 3	293	81	39	530
Hunger, Theodore, assignor to himself and W. H. Coffin, Brooklyn, N. Y. Thill-coupling.....	359,973	Mar. 22	2322	584	38	1360
Hungerford, George W., New York, N. Y. Coffee roaster, mixer, and scourer.....	366,106	July 5	480	130	40	90
Hunn, Robert E., Chicago, Ill. Brick-plastering machine.....	370,061	Sept. 20	1084	286	40	1254
Hunt Automatic Loom Company. (See Hunt, Robert H. H., assignor.)						
Hunt, Charles W., West New Brighton, N. Y. Hoisting machinery.....	361,418	Apr. 19	1474	381	39	290
Hunt, Charles W., West New Brighton, assignor to C. W. Hunt Company, New York, N. Y. Tool-post for lathes.....	375,489	Dec. 27	1875	490	41	1435
Hunt Company, C. W. (See Hunt, Charles W., assignor.)						
Hunt, David B., Angel's Camp, Cal. Automatic screen for flumes and ditches.....	365,521	June 28	1935	504	39	1479
Hunt, Edmund S., assignor to Hunt's Life Saving Gun Company, Weymouth, Mass. Ordnance.....	364,720	June 14	722	192	39	1233
Hunt, Edmund S., assignor to Hunt's Life Saving Gun Company, Weymouth, Mass. Reel.....	370,479	Sept. 27	1695	450	40	1376
Hunt, Frederic R., Leavenworth, Kans. Mail-bag.....	369,111	Aug. 30	2556	679	40	973
Hunt, Frederic R., Leavenworth, Kans. Sash-balance.....	370,334	Sept. 20	1463	393	40	1326
Hunt, Frederick F., New Brighton, N. Y. Apparatus for agitating solutions in the leaching of metals from their ores.....	370,871	Oct. 4	178	47	41	35
Hunt, George, Ellenville, N. Y. Stove-lid.....	357,126	Feb. 1	572	147	38	526
Hunt, George, Centralia, Kans. Washing-machine.....	357,601	Feb. 15	1255	329	38	674
Hunt, George G., Bristol, assignor of one-half to Plano Manufacturing Company, Plano, Ill. Mowing-machine.....	366,003	July 5	346	93, 94	40	66
Hunt, George G., Bristol, assignor of one-half to Plano Manufacturing Company, Plano, Ill. Harvester-reel.....	366,004	July 5	348	94	40	66
Hunt, Henry R., Boston, Mass. Car-coupling.....	370,062	Sept. 20	1086	286	40	1254
Hunt, Jacob. (See Gubelmann, William S., assignor.)						
Hunt, James E., Chicago, Ill. Fence-post.....	359,257	Mar. 15	1196	312	38	1138
Hunt, Manning F., Chicago, Ill. Clamp.....	356,315	Jan. 18	1455	382	38	294
Hunt, Manning M., Tecumseh, Nebr. Car-coupling.....	364,256	June 7	75	22	39	1103
Hunt, Richard, and E. S. Wilson, Liverpool, county of Lancaster, England. Refining and clarifying crude cotton-seed oil.....	365,921	July 5	236	.....	40	46
Hunt, Richard, and E. S. Wilson, Liverpool, county of Lancaster, England. Extracting oil from cotton-seed.....	369,857	Sept. 13	754	.....	40	1186
Hunt, Robert H. H., San Francisco, Cal., assignor to Hunt Automatic Loom Company, of California. Woven fabric.....	361,360	Apr. 19	1398	359	39	275
Hunt, Thomas S., Montreal, Quebec, Canada, and J. Douglas, Jr., New York, N. Y. Extracting copper from its ores.....	364,174	May 31	2996	.....	39	1069
Hunt, William B., Dubuque, Iowa. Registering tape-measure.....	355,320	Jan. 4	37	10	38	9
Hunt, William D., Brandon, Wis. End-gate.....	366,107	July 5	482	130	40	91
Hunt, William J., Los Angeles, Cal. Washing-machine.....	371,140	Oct. 4	580	148	41	114
Hunt, Willis M., Glen Gardner, N. J. Electrical weighing-scale.....	356,940	Feb. 1	270	75	38	471
Hunter, Alexander G., Dundalk, Ontario, Canada. Mechanism for operating a roll of paper.....	364,822	June 14	892	235	39	1262
Hunter, Andrew, Milwaukee, Wis. Middlings-purifier.....	358,669	Mar. 1	372	88	38	972
Hunter, Andrew, Milwaukee, Wis. Bran-cleaning machine.....	358,670	Mar. 1	374	89	38	973
Hunter, Calvin S., Hamilton, Ohio. Fence.....	369,005	Aug. 30	2402	637	40	944
Hunter, Charles B., Traver, Cal. Wheeled scraper.....	372,415	Nov. 1	196	56	41	507
Hunter, Christopher C., Concordia, Kans. Combined garden-cultivator and seed-drill.....	356,129	Jan. 18	1204	320	38	246
Hunter, Edwin C., assignor of one-half to O. F. Hunter, Green Castle, Mo. Post-driver.....	368,949	Aug. 30	2325	618	40	929
Hunter, James C., 2d, <i>et al.</i> (See Tuerk, Frederick W., Jr., assignor.)						
Hunter, James E., North Adams, Mass. Friction-clutch pulley.....	361,629	Apr. 19	1774	459	39	348
Hunter, James H. (See Gilliland and Hunter.)						
Hunter, James H. (See Winnek, Frederick G., assignor.)						
Hunter, Jesse R., Palatka, Fla. Fruit-picker.....	357,770	Feb. 15	1521	396	38	722
Hunter, John. (See Blaikie, Alexander J., assignor.)						
Hunter, John, <i>et al.</i> (See Tuerk, Frederick W., Jr., assignor.)						
Hunter, John A., Orland, Ind. Bridle.....	366,108	July 5	483	131	40	91

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Hunter, John E. (See Boulton, Orin T., assignor.)						
Hunter, Oscar F. (See Hunter, Edwin C., assignor.)						
Hunter, Robert H., Poughkeepsie, N. Y. Nail-set	374,252	Dec. 6	117	29	41	1069
Hunter, Robert W., Clinton, assignor of one-fourth to T. S. Stone, Aquasco, Md. Car-coupling	372,980	Nov. 8	1049	281	41	672
Hunter, Rudolph M. (See Green, Raphael S., assignor.)						
Hunter, Rudolph M., Philadelphia, Pa. Corset-fastener	363,393	May 24	1858	489	39	846
Hunter, Rudolph M., Philadelphia, Pa. Electric motor and dynamo-electric machine	363,466	May 24	1968	{ 514 515 }	{ 39 39 }	866
Hunter, Rudolph M., Philadelphia, Pa. Perfecting printing-machine	369,792	Sept. 13	654	178	40	1167
Hunter, Rudolph M., Philadelphia, Pa. Fruit-press	370,015	Sept. 13	1013	268	40	1233
Hunter, Rudolph M., Philadelphia, Pa. Mixing-machine	370,335	Sept. 20	1464	393	40	1326
Hunting, Eben B., et al. (See Mahaffey, James B., assignor.)						
Huntington, Charles W. (See Aiken and Huntington.)						
Huntington, Chester. (See Palmer, Frank H., assignor.)						
Huntington, Frank A. (See James, David B., assignor.)						
Huntington, Frank A. (See Lightner, Henry L., assignor.)						
Huntington, Frank A., San Francisco, Cal. Ore-crusher	356,044	Jan. 11	1069	281	38	216
Huntington, Frank A., San Francisco, Cal. Amalgamator	359,155	Mar. 8	1055	275	38	1106
Huntington, William H., Boston, Mass. Boot or shoe tip	356,471	Jan. 25	1681	439	38	344
Huntley, Clark W., Chariton, Iowa. Hay-stacker	355,651	Jan. 4	483	129	38	95
Huntley, William W., assignor to Cranson, Huntley & Company, Silver Creek, N. Y. Machine for testing rotating parts	360,807	Apr. 5	580	152	39	109
Huntoon, Elwin C. (See Huntoon, Lafayette, assignor.)						
Huntoon, Lafayette, assignor to E. C. Huntoon, Natick, Mass. Boiler for heating apparatus	366,629	July 12	1205	322	40	238
Huntoon, Lafayette, assignor to E. C. Huntoon, Natick, Mass. Hot-water heating apparatus	369,287	Aug. 30	2775	740	40	1018
Huntoon, William D. (See Brown, Dewalden L., assignor.)						
Hunt's Life Saving Gun Company. (See Hunt, Edmund S., assignor.)						
Hunziker, Edward, Jersey City, N. J., assignor to himself and E. A. Sweet, Brooklyn, N. Y. Fastening hair-springs to collets	359,390	Mar. 15	1395	357	38	1174
Hunziker, Edward, Jersey City, N. J., assignor to himself and E. A. Sweet, Brooklyn, N. Y. Hair-spring collet	359,786	Mar. 22	2023	512	38	1305
Hunziker, Gasper, Cloverdale, Cal. Apparatus for distilling wood	375,490	Dec. 27	1876	{ 490 491 }	{ 41 41 }	1435
Hunzinger, George, New York, N. Y. Chair	357,388	Feb. 8	932	245	38	604
Hunzinger, George, New York, N. Y. Folding bedstead	371,758	Oct. 18	1451	375	41	304
Huoncker, Emanuel, Canton, Ohio. Safety-pin	374,898	Dec. 13	1046	273	41	1260
Hüpfel, John C. G. (See Doelfel and Hüpfel.)						
Hurd, Asa, Yonkers, N. Y. Hitching-strap or other line-holding device	358,397	Feb. 22	2382	633	38	889
Hurd, Charles S., assignor of one-fourth to F. F. Sneathen, Pittsburg, Pa. Hitching-post	364,175	May 31	2998	778	39	1069
Hurd, Frank H., trustee. (See Doremus, Willard D., assignor.)						
Hurd, Joseph W., assignor to Aurora Watch Company, Aurora, Ill. Watch-regulator	369,006	Aug. 30	2404	638	40	945
Hurd, Judson B., San Antonio, Tex. Hoeing-machine	373,022	Nov. 8	1118	297	41	684
Hurford, Lewis K., Canton, Ohio. Handle for ladles or dippers	370,395	Sept. 27	1563	419	40	1352
Hurford, Oliver P., Oakdale, Nebr. Reel-bolt	367,757	Aug. 2	611	165	40	566
Hurlburt, Charles A. (See Frizelle, Horace J., assignor.)						
Hurlbut, Ira D., Prairie du Chien, Wis. Addressing-machine	356,130	Jan. 18	1207	320	38	247
Hurlbut, Joseph H., assignor to Pacific Indicator Company, San Francisco, Cal. Automatic station-indicator for railway-cars	372,373	Nov. 1	132	40	41	495
Hurlbut Manufacturing Company. (See Johnson, William H., assignor.)						
Hurlbut, Seth E., Chicago, Ill. Lock for sliding covers	358,450	Mar. 1	38	11	38	911
Hurlbutt, George W. (See Boyd and Hurlbutt.)						
Hurley, Daniel J., Erie, Pa. Cork-puller	372,266	Oct. 25	2220	569	41	457
Hurley, George W., Burlington, Kans. Elevator	355,397	Jan. 4	137	37	38	28
Hurley, John A., Erie, Pa. Lemon-squeezer	375,323	Dec. 20	1655	434	41	1384
Hurley, John P. (See Perkins and Hurley.)						
Hurley, John P., and G. F. Perkins, Holyoke, Mass. Pneumatic telephone	366,319	July 12	778	{ 210 211 }	{ 40 40 }	155
Huron Block and Novelty Company. (See Meeker, Lorenzo, assignor.)						
Hurst, Harris P., Summit, Miss. Cartridge	372,678	Nov. 8	583	159	41	590
Hurst, Harris P., Summit, Miss. Shell	372,753	Nov. 8	690	191	41	610
Hurst, Jakob, assignor of one-half to A. Phillips, Syracuse, N. Y. Steam cooking-vessel	372,416	Nov. 1	198	56	41	507
Hurt, Joel, Atlanta, Ga. Thermal valve	365,258	June 21	1535	400	39	1389
Hurt, Joel, Atlanta, Ga. Valve-cock	374,188	Dec. 6	34	9	41	1053
Husband, Joseph, Rockwood, Ill. Staff-holder	361,630	Apr. 19	1775	459	39	348
Husband, William, Edinburgh, county of Mid-Lothian, Scotland. Shirt-neckband	362,965	May 17	1285	341	39	725
Huse, Warren D., Laconia, N. H. Cast-off-finger-operating cam for circular-knitting machines	370,543	Sept. 27	1787	{ 476 477 }	{ 40 40 }	1392
Husgafvel, Christian, Peksamaki, Finland. Apparatus for producing malleable iron or steel direct from the ores	369,525	Sept. 6	291	81	40	1089
Hussey, Binns & Co. (See Newton, Frank B., assignor.)						
Hussey, Elijah P., Ellis, Kans. Lubricator	366,396	July 12	879	236	40	174
Hussey, George F., assignor of three-fourths to S. F. Jenkins, East Braintree, Mass. Making needles	372,471	Nov. 1	276	76	41	523
Hussey, Lutellus, Lockland, Ohio. Nut-lock	369,007	Aug. 30	2405	638	40	945
Huston, Clare A. (See Huston, Henry P., assignor.)						
Huston, Henry P., assignor to C. A. Huston, Philadelphia, Pa. Knockdown box	363,143	May 17	1525	403	39	773
Hutchins, Jesse T., et al. (See Nordyke, Charles E., assignor.)						
Hutchings, George S., Cambridgeport, Mass. Pneumatic action for organs	375,356	Dec. 27	1701	447	41	1401
Hutchings, Sydney, et al. (See Strang, Lew K., assignor.)						
Hutchins, Carleton B., assignor to himself, C. H. and E. R. Hutchins, Detroit, and H. B. Hutchins, Ann Arbor, Mich. Car-roof	372,316	Nov. 1	47	15	41	480
Hutchins, Charles H., et al. (See Hutchins, Carleton B., assignor.)						
Hutchins, Charles N., Dupree, assignor of one-third to P. H. Gerham, Austin, Tex. Cotton-cultivator	365,073	June 21	1265	334	39	1340
Hutchins, Eugene R., et al. (See Hutchins, Carleton B., assignor.)						
Hutchins, George F., assignor to Knowles Loom Works, Worcester, Mass. Attachment for looms for weaving fabric containing wavy stripes, &c	357,711	Feb. 15	1415	372	38	703
Hutchins, George F., assignor to Knowles Loom Works, Worcester, Mass. Stop-motion for looms	357,712	Feb. 15	1417	372	38	703
Hutchins, George F., assignor to Knowles Loom Works, Worcester, Mass. Protective attachment for looms	357,713	Feb. 15	1419	373	38	704

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Hutchins, Harry B., <i>et al.</i> (See Hutchins, Carleton B., assignor.)						
Hutchins, Lee, <i>et al.</i> (See Nealy, Sid H., assignor.)						
Hutchins, Sherman C., Chelsea, and E. F. Macomber, Revere, Mass. Stove-pipe thimble..	364,651	June 14	621	167	39	1213
Hutchins, William J., Joliet, Ill. Wire-nail machine	365,687	June 28	2177	{ 568 569 }	{ 39	1525
Hutchinson, Arthur S., Gainesville, Fla. Sewing-machine needle	360,884	Apr. 12	697	183	39	136
Hutchinson, Arthur S., Gainesville, Fla. Needle	371,141	Oct. 4	581	148	41	115
Hutchinson, Charles G. (See Graham, Charles, assignor.)						
Hutchinson, Charles H., <i>et al.</i> (See Dow, George B. N., assignor.)						
Hutchinson, Edwin B., assignor of two-thirds to H. Whitaker and W. W. Collier, Detroit, Mich. Transfer-book	356,715	Jan. 25	2019	531	38	405
Hutchinson, Elias S., Washington, D. C. Pressure-filter	364,932	June 14	1050	274	39	1291
Hutchinson, Henry C., Kingman, Kans. Wind-wheel	357,282	Feb. 8	786	204	38	576
Hutchinson, John A., assignor to A. W. Kingsland, Chicago, Ill. Machine for forging horseshoe-nails	372,623	Nov. 1	497	{ 135 136 }	{ 41	564
Hutchinson, Stephen G., Columbus, Ohio. Pile	365,816	July 5	78	23	40	17
Hutchinson, Stephen G., Columbus, Ohio. Pile	371,943	Oct. 25	1732	448	41	367
Hutchinson, Warren B. (See Hutchinson, William F., assignor.)						
Hutchinson, William A. (See McCallman and Hutchinson.)						
Hutchinson, William F., assignor of one-half to W. B. Hutchinson, Lynn, Mass. Shoe-vamp burnishing machine	356,839	Feb. 1	131	36	38	447
Hutchinson, William H. (See Holt, Charles C., assignor.)						
Hutchinson, William J., assignor of one-half to J. Remlinger, Clarksburg, W. Va. Fire-place	366,630	July 12	1206	323	40	238
Hutchinson, William N., Wellesbourne, Bideford, county of Devon, England. Aerial vessel	371,759	Oct. 18	1451	{ 375 376 }	{ 41	304
Hutchinson, William S., Chicago, Ill. Air-injector for furnaces	373,139	Nov. 15	1293	344	41	728
Hutchison, George C. (See Wiley, Johnston C., assignor.)						
Hutchison, John W., Gower, Mo. Cover for hay-ricks	356,838	Feb. 1	130	35	38	447
Huth, Adolph, New York, N. Y. Fishing-rod	364,350	June 7	196	54	39	1126
Hutson, James E., and J. M. C. Jones, Beatrice, Nebr. Automatic feeder for can-filling machines	363,068	May 17	1423	{ 376 377 }	{ 39	753
Hutzler, Henry S. (See Snyder, John H. and S. W., assignors.)						
Huxtable, James, Horning's Mills, Ontario, Canada. Bolting-machine	360,592	Apr. 5	292	71	39	56
Huxtable, James R., Hastings, Nebr. Traction-wheel	371,142	Oct. 4	582	148	41	115
Huyett & Smith Manufacturing Company. (See Smith, Wright D., assignor.)						
Hyams, Hyam J., Pittsburg, Pa. Gas-pressure regulator and cut-off	359,787	Mar. 22	2024	512	38	1305
Hyams, Hyam J., Pittsburg, Pa. Gas-regulator	371,324	Oct. 11	835	214	41	171
Hyams, Hyam J., assignor to Pittsburg Supply Company, (limited,) Pittsburg, Pa. Apparatus for treatment of natural gas	356,071	Jan. 11	1110	{ 293 294 }	{ 38	223
Hyatt, Henry A. (See Kuhn, Henry, assignor.)						
Hyatt Improved Illuminating Tile Company, Thaddeus. (See Hyatt, Thaddeus, assignor.)						
Hyatt, John W., Newark, N. J. Steam-boiler filter	356,131	Jan. 18	1208	321	38	247
Hyatt, John W., Newark, N. J. Agitating filter-beds in sections	357,150	Feb. 1	605	155	38	532
Hyatt, John W., Newark, N. J. Embossing-tool	358,039	Feb. 22	1873	496	38	794
Hyatt, John W., Newark, N. J. Cleansing filter beds in sections	359,258	Mar. 15	1197	{ 312 313 }	{ 38	1139
Hyatt, John W., Newark, N. J. Aeration in aqueducts	360,593	Apr. 5	293	71, 72	39	56
Hyatt, John W., Newark, N. J. Boiler feeder and purifier	362,840	May 10	1094	296	39	684
Hyatt, John W., Newark, N. J. Water-cleaner for boilers	362,841	May 10	1096	297	39	684
Hyatt, John W., Newark, N. J. Coagulant feeder	362,966	May 17	1286	341	39	726
Hyatt, John W., Newark, N. J. Apparatus for cleansing filtering-surfaces	364,933	June 14	1052	275	39	1291
Hyatt, John W., Newark, N. J. Filter construction and screen	364,934	June 14	1056	{ 275 276 }	{ 39	1292
Hyatt, John W., Newark, N. J. Cleansing filter-diaphragms	364,935	June 14	1058	276	39	1292
Hyatt, John W., Newark, N. J. Abrasion of filter-diaphragms	364,936	June 14	1060	{ 276 277 }	{ 39	1293
Hyatt, John W., Newark, N. J. Apparatus for purifying water	366,171	July 5	571	153	40	108
Hyatt, John W., Newark, N. J. Agitating filter-diaphragms with abrading material for cleansing their surfaces	366,726	July 19	1347	{ 360 361 }	{ 40	272
Hyatt, John W., Newark, N. J. Reducing-valve	371,505	Oct. 11	1090	284	41	222
Hyatt, John W., assignor to Newark Filtering Company, Newark, N. J. Filter	355,694	Jan. 11	546	144	38	116
Hyatt, John W., assignor to Newark Filtering Company, Newark, N. J. Filter	358,040	Feb. 22	1875	496	38	794
Hyatt, John W., Newark, N. J., assignor to Newark Filtering Company. Apparatus for purifying filter-beds	362,839	May 10	1092	296	39	683
Hyatt, John W., assignor to Hyatt Pure Water Company, Newark, N. J. Injector for aeration of water	366,169	July 5	569	153	40	107
Hyatt, John W., assignor to Hyatt Pure Water Company, Newark, N. J. Apparatus for purifying the water in steam-boilers	366,170	July 5	570	153	40	107
Hyatt, John W., assignor to Hyatt Pure Water Company, Newark, N. J. Purifying water	369,288	Aug. 30	2777	740	40	1018
Hyatt, John W., assignor to Hyatt Pure Water Company, Newark, N. J. Pump	369,289	Aug. 30	2779	741	40	1019
Hyatt, John W., assignor to Hyatt Pure Water Company, Newark, N. J. Filtering medium	369,716	Sept. 13	558	.....	40	1150
Hyatt, John W., assignor to Hyatt Pure Water Company, Newark, N. J. Filtering substance	369,717	Sept. 13	559	.....	40	1150
Hyatt, John W., assignor to Hyatt Pure Water Company, Newark, N. J. Cement filter ..	369,718	Sept. 13	560	153	40	1150
Hyatt, John W., assignor to Hyatt Pure Water Company, Newark, N. J. Aeration of water in reservoirs	370,016	Sept. 13	1016	268	40	1233
Hyatt Pure Water Company. (See Hyatt, John W., assignor.)						
Hyatt School Slate Company. (See Knauss, George L., assignor.)						
Hyatt, Thaddeus, Brooklyn, N. Y., assignor to T. Hyatt Improved Illuminating Tile Company. Vault-covering, illuminating tiling, &c	365,306	June 21	1600	417	39	1401
Hyde, Henry M., Princeton, Ill. Tent-pin extractor	373,663	Nov. 22	2101	562	41	891
Hyde, Henry W., Summit, Fla. Traction-wheel	356,472	Jan. 25	1681	440	38	344
Hyde, Ira L., and C. H. Jones, Chazy, N. Y.; said Hyde assignor to said Jones. Sectional ladder	374,154	Nov. 29	2796	751	41	1032
Hyde, James C., assignor to West Haven Buckle Company, West Haven, Conn. Buckle ..	369,526	Sept. 6	293	81	40	1090
Hyde, James C., assignor to West Haven Buckle Company, West Haven, Conn. Buckle ..	370,737	Sept. 27	2085	553	40	1447
Hyde, James C., assignor to West Haven Buckle Company, West Haven, Conn. Buckle ..	370,738	Sept. 27	2086	553	40	1447
Hyde, Lewis W., Brooklyn, and A. H. Seaman, New York, N. Y. Seat-mat	360,442	Apr. 5	68	18	39	14
Hyde, Louis C., Brightwood, Mass. Railway passenger-car	367,811	Aug. 9	697	188	40	591
Hyde, Oliver, Vallejo, Cal. Photographic camera	356,941	Feb. 1	273	75	38	471
Hyde, R. F. (See Keating, Robert M., assignor.)						
Hyde, Richard E., Midway, Tex. Planter	375,421	Dec. 27	1785	467	41	1417

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Hyde, William A., Grand Rapids, Mich. Runner for vehicle-wheels.....	364,591	June 7	547	147	39	1191
Hyden, Peter. (See Dixey, Gronberg, and Hydep.)						
Hydraulic Elevator Company. (See Baldwin, Cyrus W., assignor.)						
Hydraulic Elevator Company. (See Bassett, Norman C., assignor.)						
Hydraulic Elevator Company. (See Foster, Charles E., assignor.)						
Hydraulic Elevator Company. (See Hale, William E., assignor.)						
Hyer, Henry J., Unadilla, N. Y. Potato-paring machine.....	362,009	Apr. 26	2335	609	39	456
Hyers, William H., et al. (See Van Horne and Fisher, assignors.)						
Hyland, William, New Haven, Conn. Ornamenting metal surfaces.....	360,387	Mar. 29	2972	753	38	1485
Hyman, Maurice, Milwaukee, Wis. Suspender-buckle.....	373,405	Nov. 15	1708	452	41	803
Hyndman, John C., Mound Valley, Kans. Rock-drill.....	359,019	Mar. 8	886	226	38	1072
Hynds, Daniel M. (See Barney, Martin V., assignor.)						
Hysam, William B., Baltimore, Md. Portable adjustable balcony.....	370,739	Sept. 27	2087	553	40	1447
Hyslop, John, Jr., Abington, Mass. Tapered nail.....	373,234	Nov. 15	1454	383	41	756
Hyter, William. (See Swartzbaugh, John H., assignor.)						
Ide, Albert L. (See Poole, C. Clarence, assignor.)						
Ide, Albert L., Springfield, Ill. Steam-engine valve.....	360,594	Apr. 5	296	72	39	57
Ide, Albert L., Springfield, Ill. Water-escape device for engine-cylinders.....	362,629	May 10	799	219	39	629
Ide, Ferdinand F., Springfield, Ill. Oil-trap for steam-engines.....	365,259	June 21	1536	401	39	1390
Ide, Harry L., Springfield, Ill. Automatic air-valve.....	357,320	Feb. 8	836	218	38	585
Ide, John R., Salisbury, N. C., assignor of one-half to A. E. Heighway, Jr., Cincinnati, Ohio. Device for setting brake-beams.....	367,635	Aug. 2	408	113	40	529
Ide, Samuel, Medina, N. Y. Piston-packing.....	361,521	Apr. 19	1604	416	39	316
Ihne, William, Medford, Wis. Manufacture of emery.....	368,769	Aug. 23	2066		40	870
Ihsen, Henry, Allegheny City, Pa. Wood-boring machine.....	374,363	Dec. 6	278	74	41	1099
Ilgén, M. E., et al. (See Ferguson, Thomas, assignor.)						
Ilf, James A., Indianapolis, Ind. Pocket-book.....	358,272	Feb. 22	2215	584	38	856
Ilyne-Berline, Solomon, Paris, France, assignor to L. De Colange, New York, N. Y. Electric signaling apparatus.....	362,216	May 3	217	64	39	515
Illig, William. (See Meyer and Illig.)						
Illingworth, John, Newark, N. J. Smoking molds in casting ingots.....	373,186	Nov. 15	1374	364	41	741
Illinois Iron and Bolt Company. (See Bailey, John, assignor.)						
Ilse, Augustus, Evanston, Wyo. Ter. Hoisting and lowering apparatus.....	356,249	Jan. 18	1361	359	38	276
Ilsley, Silas A. (See Mungiven, James M., assignor.)						
Imlay, William L., Camden, N. J. Photographic shutter.....	361,947	Apr. 26	2233	{ 581 582 }	{ 39 }	439
Imlay, William L., and H. G. Williams, Camden, N. J., assignors of one-fourth to H. C. Terry, Philadelphia, Pa. Car-propulsion.....	370,872	Oct. 4	179	47, 48	41	35
Imler, Joseph, Garrett, Ind. Well-drilling machine.....	369,339	Sept. 6	42	13	40	1042
Immel, George W., Logansport, Ind. Door-clamp.....	360,698	Apr. 5	435	111	39	81
Independent Printing Telegraph Company. (See Sheehy, Robert J., assignor.)						
Indianapolis Cabinet Company. (See Coffin, Francis A., assignor.)						
Indurated Fibre Company. (See Hanson, Newel P., assignor.)						
Indurated Fibre Company. (See Prescott, Albert H., assignor.)						
Ingalls, Gustavus W. (See Hendrick, Jerome A., assignor.)						
Ingalls & Son, J. W. (See Newhall, Levi B. and F. B., assignors.)						
Ingersoll, Charles M., Rutherford, N. J. Railway track, frog, and switch cleaner.....	362,967	May 17	1287	342	39	726
Ingersoll, Charles M., Rutherford, N. J. Railway-cleaning tool.....	368,213	Aug. 16	1265	337	40	707
Ingersoll, Gus H., Franktown, Colo. Gate.....	374,742	Dec. 13	816	214	41	1215
Ingersoll, James L., Forest City, Ill. Sulky-cultivator.....	360,300	Mar. 29	2847	725	38	1464
Ingersoll, Rebecca E. (See Connors, Timothy, assignor.)						
Inghram, George H., Menlo, Iowa. Draft-equalizer.....	375,357	Dec. 27	1702	447	41	1401
Ingledue, Harvey R., assignor to Plano Manufacturing Company, Plano, Ill. Harvester.....	363,746	May 24	2383	619	39	947
Inglis, John, Paterson, N. J. Tap-valve for beer and other vessels.....	366,005	July 5	350	94	40	66
Ingold, William W., Assumption, Ill. Protector for drain-tiles.....	364,823	June 14	893	235	39	1262
Ingraham, Gilbert K., and J. L. Crist, San Francisco, Cal. Fluid can or barrel holder.....	364,351	June 7	196	55	39	1126
Ingram, William G., Omaha, Nebr., assignor to Eagle Pencil Company, New York, N. Y. Pen-holder.....	365,307	June 21	1602	417	39	1402
Inloes, William H., W. D. Justice, and C. F. Christopher, Asheville, N. C. Lock for railway turn-tables.....	369,527	Sept. 6	295	82	40	1090
Inman, Henry C. (See Langdon, Alfred, assignor.)						
Inman, Horace, Amsterdam, N. Y. Device for fastening packages.....	364,352	June 7	197	55	39	1126
Inslee, John A., et al. (See Kirby, James A., assignor.)						
Inslee, William H., Newark, N. J., assignor to Singer Manufacturing Company of New Jersey. Shuttle and shuttle-carrier for sewing-machines.....	366,666	July 19	1263	337	40	256
International Electrical Company. (See Watson, John E., assignor.)						
International Oil and Refining Company of Michigan. (See Hall, Thurston G., assignor.)						
International Postal Supply Company of New York. (See Laass and Hey, assignors.)						
International Printing Telegraph Company. (See Linville, Jacob H., assignor.)						
Inzer, Eugene H., Trussville, Ala. Churn.....	357,602	Feb. 15	1256	330	38	674
Inzer, Eugene H., Trussville, Ala. Plow.....	359,321	Mar. 15	1281	332	38	1154
Irelan, William, Sr., San Francisco, Cal. Automatic safety-guard and track-clearer for underground cable railways.....	363,394	May 24	1860	489	39	846
Ireland, William H. (See Merritt, Henry W., assignor.)						
Irlbacker, John, Buffalo, N. Y. Apparatus for brewing beer.....	362,086	May 3	49	14, 15	39	482
Irmler, August, Gardenville, N. Y. Fire-escape.....	355,451	Jan. 4	203	54	38	41
Iron Clad Manufacturing Company. (See Discho, William, assignor.)						
Iron Clad Manufacturing Company. (See Haigh, Harry B., assignor.)						
Iron Clad Manufacturing Company. (See Reynolds, Henry S., assignor.)						
Ironmonger, Francis M., Brooklyn, N. Y. Bleaching edible nuts.....	361,700	Apr. 26	1877		39	375
Irons, Edward P., Baltimore, Md. Thill-coupling.....	372,021	Oct. 25	1840	477	41	387
Irons, James A., Water Cure, Pa. Heating apparatus.....	363,747	May 24	2385	619	39	947
Irons, James A., Water Cure, Pa. Churn.....	364,937	June 14	1061	277	39	1293
Irons, Joseph F., Bradford, Pa. Feed-regulator for liquid fuel.....	370,336	Sept. 20	1466	{ 393 394 }	{ 40 }	1326
Irons, Joseph F., assignor of one-half to J. W. Miller, Bradford, Pa. Hydrocarbon-burner.....	370,337	Sept. 20	1468	394	40	1327
Irving, George S. (See Croom, Wiley G., assignor.)						
Irving, Jason L., San Francisco, Cal. Artificial fuel.....	374,679	Dec. 13	727		41	1198
Irving, William, Chicago, Ill. Steam-separator.....	358,356	Feb. 22	2326	617	38	878
Irwin, Annie E., Memphis, Tenn. Kitchen-cabinet.....	355,533	Jan. 4	310	83	38	63
Irwin, Charles H., Martinsville, Ohio. Auger-bit.....	361,522	Apr. 19	1607	416	39	316
Irwin, James, West Bellevue, Pa. Gas-burner.....	362,968	May 17	1288	342	39	726
Irwin, John, Pittsburg, Pa. Cuff-holder.....	371,264	Oct. 11	752	193	41	156

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Irwin, John, Jr., Edgeworth, assignor to Pittsburgh Steel Casting Company, Pittsburg, Pa. Apparatus for the production of sound castings	359,974	Mar. 22	2323	584	38	1360
Irwin, John H., trustee. (See Voelker, William L., assignor.)						
Irwin, John H., Philadelphia, Pa. Vehicle-brake	361,589	Apr. 19	1708	441	39	334
Irwin, John H., Philadelphia, Pa. Necktie	364,017	May 31	2779	720	39	1028
Irwin, John H., Philadelphia, Pa. Acoustic telegraph	367,042	July 26	1757	474	40	357
Irwin, John H., Morton, Pa. Electric pyrotechnics	367,402	Aug. 2	65	17	40	463
Irwin, John H., Burlington, N. J. Milk-can protector	370,144	Sept. 20	1208	320	40	1277
Irwin, John H., Morton, Pa., assignor to R. E. Dietz Company, New York, N. Y. Oil or gas stove	368,950	Aug. 30	2326	618	40	929
Irwin, John M., St. Louis, Mo. Corn-harvester	368,890	Aug. 23	2231	594	40	902
Irwin, Joseph I., <i>et al.</i> (See Reeves, Alfred B., assignor.)						
Irwin, Samuel, Jr., Beatrice, Nebr. Cultivator	356,586	Jan. 25	1842	483	38	374
Isbell, Arista H., assignor to J. Hart and R. E. Bowles, Asheville, N. C. Perpetual calendar	373,235	Nov. 15	1455	383	41	756
Isbell, Charles W., and W. H. Taylor, New York, N. Y. Apparatus for generating gas	372,803	Nov. 8	794	{ 212 213 }	{ 41 41 }	{ 627 627 }
Isbell, Robert H., New York, N. Y. Mechanical movement	366,774	July 19	1412	377	40	283
Isbell, Robert H., assignor to G. F. Betts, New York, and W. S. Logan, Brooklyn, N. Y. Railway-switch	358,398	Feb. 22	2383	633	38	889
Isbester, Caleb B., Chattanooga, Tenn. Device for forming beads in sand molds	368,719	Aug. 23	2003	530	40	857
Isbester, Caleb B., Chattanooga, Tenn. Device for forming beads in sand molds	373,664	Nov. 22	2102	562	41	891
Iseman, Henry C., <i>et al.</i> (See Megown, Thomas J., assignor.)						
Isham, Alfred H. (See Thompson and Isham.)						
Isham & Hooker, Truman. (See Thompson and Isham, assignors.)						
Isidor, Moritz, and R. Flocke, assignors to R. Neumann & Co., Newark, N. J. Traveling-bag	363,748	May 24	2386	619	39	947
Iske, Albert. (See Landis and Iske.)						
Iske, Anthony. (See Landis and Iske.)						
Iske, Anthony, assignor to I. L. Landis, Lancaster, Pa. Folding bedstead	358,451	Mar. 1	40	11	38	911
Iske, Anthony, assignor to I. L. Landis, Lancaster, Pa. Secretary-table	360,020	Mar. 29	2406	609	38	1383
Iske, Anthony, assignor to I. L. Landis, Lancaster, Pa. Tire-tightener	362,382	May 3	434	120	39	559
Ismay, Matthew P., Newcastle-upon-Tyne, and E. Dodds, Low Fell, Gateshead, England. Apparatus for coating photographic plates	357,483	Feb. 8	1063	281	38	629
Ismond, Henry A. (See Davis, Corbin E., assignor.)						
Ismond, Robert E., Chicago, Ill. Hose or pipe coupling	357,603	Feb. 15	1257	330	38	675
Isom, John M. (See Isom, Martin C. and J. M.)						
Isom, Martin C. and J. M., Hoosier Prairie, Ill. Hay loader and stacker	356,316	Jan. 18	1455	382	38	294
Israel, James. (See Stewart, Joseph, assignor.)						
Israel, Solomon. (See Gres, Eucher, assignor.)						
Ithaca Gun Company. (See Pierce and Smith, assignors.)						
Ivens, Edmund M., New Orleans, La. Steam-trap	358,556	Mar. 1	220	51	38	944
Ivens, William H., Chambersburg, assignor of one-half to J. S. Mayer, White Hill, N. J. Potter's machine	367,525	Aug. 2	251	71	40	499
Ivers & Pond Piano Co. (See Ivers, William H., assignor.)						
Ivers, William H., Dedham, Mass. Piano-forte	371,069	Oct. 4	480	121	41	95
Ivers, William H., Dedham, assignor to Ivers & Pond Piano Company, Boston, Mass. Keyboard for piano-fortes	363,240	May 17	1652	434	39	798
Ivers, William H., Dedham, assignor to Ivers & Pond Piano Co., Boston, Mass. Pin-block for piano-fortes	371,070	Oct. 4	481	121	41	95
Ivers, William H., Dedham, assignor to Ivers & Pond Piano Co., Boston, Mass. Piano-forte	375,491	Dec. 27	1878	491	41	1436
Ives, Albert J., Aurora, Ill. Door-hanger	358,613	Mar. 1	294	70	38	958
Ives, Blakeslee & Co. (See Hotchkiss, Charles A., assignor.)						
Ives, Blakeslee & Co. (See Loucks, Edwin, assignor.)						
Ives, Emma F. (See Ives, Joseph H., assignor.)						
Ives, George R., West Pike, Pa. Stump-puller	361,631	Apr. 19	1776	459	39	349
Ives, John N., Brooklyn, N. Y. Book-binder's gold cleaning and saving machine	361,632	Apr. 19	1777	{ 459 460 }	{ 39 39 }	{ 349 349 }
Ives, Joseph H., assignor to E. F. Ives, Danbury, Conn. Device for laying putty	356,200	Jan. 18	1295	342	38	262
Iveson, Edward H., Cohoes, N. Y. Shirt-stretcher	375,069	Dec. 20	1314	343	41	1317
Ivey, Thaddeus, Ashpole, N. C. Combined cart saddle and yoke	375,162	Dec. 20	1450	379	41	1343
Ivory, John C., Somerville, assignor of part to J. N. Moulton, Haverhill, and E. P. Thayer, Boston, Mass. Sole trimming and channeling machine	361,159	Apr. 12	1115	{ 282 283 }	{ 39 39 }	{ 212 212 }
Jablochkoff, Paul, Paris, France. Galvanic battery	360,158	Mar. 29	2643	668	38	1425
Jaccard, David H., San Francisco, Cal. Cigar-box	363,467	May 24	1975	515	39	868
Jacco, Ned. (See Taylor, Hilbert E., assignor.)						
Jacks, Franklin R. (See Evans and Jackes.)						
Jackman, Stephen E. (See Floyd, Byron B., assignor.)						
Jackson, Amos H., Fremont, Ohio. Bustle	369,943	Sept. 13	892	237	40	1211
Jackson, Austin F., assignor to Reed & Barton, Taunton, Mass. Bottle-holder	367,208	July 26	1990	538	40	401
Jackson, Charles, No. 134 Robin Hood Chase, county of Nottingham, England. Manufacture of hardened asbestos	359,156	Mar. 8	1056	.....	38	1106
Jackson, Charles H., <i>et al.</i> (See Myers, Henry C., assignor.)						
Jackson, Charles W., Chicago, Ill. Manufacturing netted fringe	358,452	Mar. 1	41	11	38	911
Jackson, Charles W., Chicago, Ill. Netted overskirt for tassels and manufacturing the same	373,982	Nov. 29	2553	686	41	985
Jackson, Francis, Oakland, Cal. Cook stove or range	361,064	Apr. 12	962	{ 243 244 }	{ 39 39 }	{ 183 183 }
Jackson, Francis A. (See Giles, James, assignor.)						
Jackson, George, assignor of one-half to J. H. Boswell, New York, N. Y. Hinge	368,921	Aug. 23	2280	607	40	912
Jackson, H. Ayers, Chicago, Ill. Tailor's measure	361,292	Apr. 19	1300	{ 333 334 }	{ 39 39 }	{ 258 258 }
Jackson, Henry D., Matteawan, N. Y. Plume	361,948	Apr. 26	2235	582	39	440
Jackson, Henry L. K. (See Braham and Jackson.)						
Jackson, Henry S., <i>et al.</i> (See Seaver, George F., assignor.)						
Jackson, John, Clinton, Iowa. Folding opera-chair	365,522	June 28	1936	504	39	1480
Jackson, Manetho C., Denver, Colo. Baling-press	367,106	July 26	1857	501	40	375
Jackson, Peter H., San Francisco, Cal. Building or bridge construction	366,839	July 19	1498	400	40	299
Jackson, Peter H., San Francisco, Cal. Construction of sidewalks and floors over chambers and excavations	366,840	July 19	1500	400	40	299
Jackson, Peter H., San Francisco, Cal. Floor, roof, or area covering	367,343	July 26	2202	591	40	439
Jackson, Peter H., San Francisco, Cal. Area, floor, roof, and sidewalk construction	370,625	Sept. 27	1916	{ 508 509 }	{ 40 40 }	{ 1416 1416 }
Jackson, Peter H., San Francisco, Cal. Building and bridge construction	371,843	Oct. 18	1578	408	41	329

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Jackson, Peter H., San Francisco, Cal. Building and bridge construction	371,844	Oct. 18	1582	408	41	329
Jackson, Peter H., San Francisco, Cal. Pavement, sidewalk, floor, &c	371,845	Oct. 18	1583	409	41	330
Jackson, Samuel M., Logansport, Ind. Machine for bundling wall-paper	362,279	May 3	294	81	39	531
Jackson, Thaddeus A., New York, N. Y. Mold for casting diamond-tools	356,132	Jan. 18	1210	321	38	247
Jackson, Thaddeus A., New York, N. Y. Machine for sawing stone	361,011	Apr. 12	892	{ 225 226 }	{ 39 39 }	169
Jackson, Thaddeus A., New York, N. Y. Mold for casting teeth of diamond saws	361,012	Apr. 12	895	226	39	170
Jackson, Thaddeus A., New York, N. Y. Stone-sawing machine	370,790	Oct. 4	55	14	41	13
Jackson, Thomas B., and M. P. Lytton, Macon City, Mo. Coal-dump	371,890	Oct. 18	1655	{ 427 428 }	{ 41 41 }	343
Jackson, Walter M., New York, N. Y. High and low gas-pressure regulator	360,774	Apr. 5	535	138	39	100
Jackson, Walter M., New York, N. Y. Spring missile-projector	372,981	Nov. 8	1051	281	41	673
Jackson, Walter M., assignor to Gas Consumers Benefit Company of the United States, New York, N. Y. Tip for gas-burners	361,160	Apr. 12	1117	283	39	212
Jackson, Walter M., assignor to Gas Consumers Benefit Company of the United States, New York, N. Y. Gas-burner tip	361,161	Apr. 12	1119	283	39	212
Jackson, Walter M., assignor to Gas Consumers Benefit Company of the United States, New York, N. Y. Gas-burner	375,070	Dec. 20	1314	343	41	1317
Jackson, Walter M., assignor to Gas Consumers Benefit Company of the United States, New York, N. Y. Gas-burner	375,071	Dec. 20	1315	343	41	1317
Jackson, William, Pimlico, county of Middlesex, England. Sewing-machine	364,517	June 7	436	117	39	1170
Jackson, William H., Elizabeth, N. J. Machine for making hair-pins	356,539	Jan. 25	1772	{ 461 462 }	{ 38 38 }	360
Jacob, Frederick, assignor of one-half to C. Feigenspan, Newark, N. J. Bottle-stopper....	371,325	Oct. 11	836	214	41	171
Jacob & Son. (See Junod, Arthur, assignor.)						
Jacob, William W., and T. B. Patton, Saltsburg, Pa. Hay-ladder	367,636	Aug. 2	410	113	40	529
Jacobs, Adolph. (See White and Jacobs.)						
Jacobs, Arthur I. (See Fifield and Jacobs.)						
Jacobs, Arthur I., Worcester, Mass., assignor to Smythe Manufacturing Company, Hartford, Conn. Mechanical movement	361,162	Apr. 12	1121	283	39	213
Jacobs, Henry E., Fond du Lac, Wis. Ventilator for cars	363,642	May 24	2234	579	39	918
Jacobs, Henry E., Fond du Lac, Wis. Valve	363,643	May 24	2234	579	39	918
Jacobs, Henry E., Fond du Lac, Wis. Electric temperature-controlling device	363,644	May 24	2236	579	39	918
Jacobs, Henry E., Fond du Lac, Wis. Electric temperature-controlling device	363,645	May 24	2238	{ 579 580 }	{ 39 39 }	919
Jacobs, Henry E., Milwaukee, Wis. Thermostat	365,438	June 28	1805	470	39	1453
Jacobs, Henry E., Milwaukee, Wis. Electric temperature-controlling device	365,600	June 28	2056	536	39	1502
Jacobs, Jacob, New York, N. Y. Illuminating-tile	364,113	May 31	2903	753	39	1052
Jacobs, John W., Detroit, Mich., assignor of one-half to H. Still, Fremont, Ohio. Harness for single horses	369,058	Aug. 30	2483	659	40	960
Jacobs, Samuel M., New York, N. Y. Railway-rail	369,858	Sept. 13	755	202	40	1186
Jacobs, William E., Columbus, Ohio. Wheeled road-scraper	360,443	Apr. 5	69	18	39	14
Jacobson, John, Boston, Mass. Transparency	369,059	Aug. 30	2483	659	40	960
Jacobson, John, Boston, Mass. Printing apparatus	373,236	Nov. 15	1456	{ 383 384 }	{ 41 41 }	756
Jacobson, Peter, and A. Bade, Milwaukee, Wis. Coupling for hose, steam-pipe, &c	373,292	Nov. 15	1530	404	41	770
Jacobus, William, Newark, N. J. Closet-seat	362,969	May 17	1289	342	39	726
Jacoby, John C., assignor to D. F. Brubaker, Ashland, Ohio. Bag-filler	365,748	June 28	2276	592	39	1542
Jacoby, Lewis H., Goshen, Ind. Draft-equalizer	358,741	Mar. 1	470	115	38	991
Jacoby, Tilghman, Allentown, Pa. Washing-machine	361,163	Apr. 12	1122	284	39	213
Jacot, Charles H., Hoboken, N. J. Music-box	362,087	May 3	50	15	39	482
Jacot, Charles H., Hoboken, N. J. Motor for music-boxes	374,410	Dec. 6	339	88	41	1110
Jadicke, Julius C. (See Kline and Jadicke.)						
Jaack, Emile, Brooklyn, N. Y. Ink-fountain for printing-machines	367,526	Aug. 2	252	71	40	499
Jaeger, Gustav L., New York, N. Y. Paper box	358,671	Mar. 1	376	{ 89 90 91 }	{ 38 38 38 }	973
Jaeger, Gustav L., New York, N. Y. Apparatus for drying paper, &c	359,446	Mar. 15	1474	377	38	1190
Jaeger, Gustav L., New York, N. Y. Letter-envelope	365,260	June 21	1537	401	39	1390
Jaeger, Gustav L., New York, N. Y. Paper-box machine	372,624	Nov. 1	502	{ 137 138 139 }	{ 41 41 41 }	565
Jaeger, Gustav L., New York, N. Y., assignor to B. C. Fautrot, Lima, Ohio. Egg-tray machine	369,944	Sept. 13	893	{ 237 238 239 }	{ 40 40 40 }	1212
Jaeger, Julius, Rutherford, N. J. Sheet-metal casing for bottles	364,417	June 7	294	81	39	1144
Jaeggi, Urs V., Auburn, South Australia. Alarm-lock	370,480	Sept. 27	1695	450	40	1376
Jagenburg, Gustav, Rydboholm, Sweden. Dyeing and bleaching apparatus	372,472	Nov. 1	276	76, 77	41	523
Jagger, Eli. (See Pickford and Jagger.)						
Jahn, Heinrich, assignor of one-half to E. Gruhn, Chicago, Ill. Window sash and frame ..	374,793	Dec. 13	892	233	41	1230
Jaisle, George F., Cincinnati, Ohio. Fertilizer-distributor	356,769	Feb. 1	37	11	38	430
Jaisle, George F., Cincinnati, Ohio. Sprinkling apparatus	361,293	Apr. 19	1303	334	39	259
James, Albert R., Hamilton, Ontario, assignor to J. A. McRae, Montreal, Canada. Mechanism for crimping shoe-uppers	363,521	May 24	2056	534	39	885
James, Albert R., Hamilton, Ontario, Canada, assignor to Seamless Shoe Crimping Company, Portland, Me. Stretching and crimping machine	373,775	Nov. 22	2257	605	41	920
James, Amos C., New York, N. Y. Music-rack for upright pianos	362,512	May 10	624	176	39	599
James, Charles H., assignor of two-thirds to F. H. Lowry and G. W. Blair, Wabash, Ind. Weather-strip	368,151	Aug. 9	1174	313	40	682
James, David B., assignor to F. A. Huntington, San Francisco, Cal. Miner's candlestick ..	366,320	July 12	782	211	40	155
James, Daniel E., and E. Lazenby, Compton, Cal. Sliding gate	356,317	Jan. 18	1457	383	38	294
James, De Witt C., Warren, Pa. Underground electric conductor	375,633	Dec. 27	2087	543	41	1474
James, Edward B., Thomasville, Ga. Plow	363,646	May 24	2241	580	39	920
James, George, Boston, Mass. Cutting heel-lifts	361,065	Apr. 12	963	244	39	183
James, George E. (See Davis, James M., assignor.)						
James, George W., Lima, Ohio. Car-coupling	364,114	May 31	2904	753	39	1052
James, Harry C., and C. A. Delavan, Denver, Colo. Device for supporting harness	364,652	June 14	623	168	39	1213
James, Henry, Cleveland, Ohio. Car-bolster	374,836	Dec. 13	951	248	41	1241
James, Jack W., Cuba, Tenn. Bathing-machine	366,110	July 5	485	131	40	91
James, Jack W., Cuba, Tenn. Air or water purifying apparatus	368,891	Aug. 23	2234	594	40	903
James, John E., Mossy Creek, Va., assignor to himself and J. B. Finney, Romney, W. Va. Hame	357,389	Feb. 8	933	245	38	604
James, Willard C., Boston, Mass. Hand-truck	356,473	Jan. 25	1685	440	38	344
James, Willard C., Boston, Mass. Leather-cutting machine	368,672	Aug. 23	1922	511	40	844
James, Willard C., Boston, Mass. Combined hand-truck and weighing-scale	371,071	Oct. 4	483	121	41	95

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James, Willard C., Boston, Mass. Combined truck and weighing-scale	372,538	Nov. 1	373	101	41	541
Jameson, Anthony J. (See Straight and Jameson.)						
Jameson, George P., Abingdon, Ill. Grain-weighing apparatus	375,163	Dec. 20	1450	379	41	1343
Jameson, John. (See Reid and Jameson.)						
Jameson, John S., assignor of one-half to A. Lemmon, Sr., New Albany, Ind. Clothes-line prop	372,915	Nov. 8	955	258	41	656
Jameson, Thomas O., New York, N. Y. Jib-hank	374,476	Dec. 6	435	113	41	1129
Jamison, John P., Cambridgeport, Mass. Machine for embossing paper, wood, &c	374,253	Dec. 6	118	30	41	1069
Jameton, Jean, St. Louis, Mo. Composition for blackboards	356,363	Jan. 18	1530		38	308
Jameton, Jean, St. Louis, Mo. Fire-proof floor	361,361	Apr. 19	1400	360	39	276
Jamieson, Alexander, London, county of Middlesex, England. Dental engine	366,484	July 12	982	267	40	195
Jamieson, James. (See Keep and Jamieson.)						
Jamieson, Robert W., Prince Albert, Saskatchewan, Northwest Territory, Canada. Knife-cleaner	368,400	Aug. 16	1528	409	40	760
Jamieson, William, Saratoga Springs, N. Y. Clothes-pin bag	368,091	Aug. 9	1094	290	40	667
Janesville Machine Company. (See Glass and Kimball, assignors.)						
Janggen, John. (See O'Connor and Janggen.)						
Jannopoulo, Demetrius, St. Louis, Mo. Tent-pole	359,157	Mar. 8	1057	275	38	1106
Janson, Charles A. (See Smith and Janson.)						
Janssen, C. Diedrich, and W. De Voe, Torrington, Conn. Attachment for squares	357,771	Feb. 15	1522	396	38	722
Jansson, John, assignor to Aktiebolaget Palmerantz & Co., (limited,) Stockholm, Sweden. Reaping-machine	370,946	Oct. 4	307	75, 76	41	61
Janusch, Frederick G., New York, N. Y. Fire-place frame	372,417	Nov. 1	199	56	41	507
Jaques, Georg W., Burton, Ohio. Plasterer's hawk	357,203	Feb. 8	686	177	38	557
Jaques, John T., Boston, Mass., assignor to Faraday Electric Cable Company. Manufacture of insulated electrical conductors	369,793	Sept. 13	657	178	40	1168
Jarboe, Walter S., Allegheny City, assignor of one-half to J. H. Wilson, Pittsburg, Pa. Machine for wrapping packages	367,637	Aug. 2	411	113 114 115 116	40	529
Jardine, James. (See Fitzpatrick and Jardine.)						
Jarecki, Friderich, Erie, Pa. Hydrocarbon-gas burner	366,321	July 12	783	211	40	156
Jarecki Manufacturing Company. (See Williams, James C., assignor.)						
Jármay, Gustav, Winnington, county of Chester, England. Separating ammonium chloride from solutions by refrigeration	356,133	Jan. 18	1210		38	247
Jarves, Deming, Detroit, Mich. Machine for cutting glue	359,391	Mar. 15	1396	357 358	38	1174
Jarves, Deming, Detroit, Mich. Glue-cutting machine. (Reissue)	10,875	Oct. 18	1684	435 436	41	349
Jarvis, John G. (See Jones and Jarvis.)						
Jarvis, Samuel E. (See Stockwell, Millard E., assignor.)						
Jarvis, Samuel E., Lansing, Mich. Traction-engine	372,022	Oct. 25	1841	477	41	387
Jarvis, Samuel E., Lansing, Mich. Steam-engine	373,072	Nov. 15	1195	319	41	709
Jarvis, William D. F., Philippi, W. Va. Fishing-line reel	368,922	Aug. 23	2281	607	40	912
Jarvis, William D. F., assignor to himself and L. D. Robinson, Philippi, W. Va. Car-ventilating apparatus	359,975	Mar. 22	2324	584	38	1361
Jasper, Henry N., Akron, Ohio. Spirit-level	356,645	Jan. 25	1933	506	38	391
Jay, Isaac and J. C., Arapahoe, Nebr. Feed-grinder	359,788	Mar. 22	2025	513	38	1305
Jay, James C. (See Jay, Isaac and J. C.)						
Jay, John. (See Coats and Jay.)						
Jay, John, and H. C. Coate; said Jay assignor to H. B. Reiber, Pleasant Hill, Ohio. Fence. Jayne, Eben C., Philadelphia, Pa. Calendar	373,368	Nov. 15	1655	440	41	793
Jayne, Eben C., Philadelphia, Pa. Calendar	369,945	Sept. 13	899	239	40	1212
Jayne, William. (See Crosby and Jayne.)						
Jayne, William, assignor of one-half to J. P. Crosby, New York, N. Y. Paper-file	364,418	June 7	295	81	39	1144
Jayne, William, and J. P. Crosby, New York, N. Y. Wardrobe-hook	369,946	Sept. 13	900	240	40	1212
Jealous, Francis H. (See Sampson and Jealous.)						
Jeczalik, Joseph, New York, N. Y. Lock	358,976	Mar. 8	826	209	38	1061
Jeffcoat, John, Onawa, Iowa. Hay rake, loader, and stacker	369,183	Aug. 30	2640	701	40	991
Jefferies, Moses K., Hillsborough, Wis. Device for regulating the water-supply in cisterns. Jeffers, Wallace W. D., Ticonderoga, N. Y. Pulp-engine	364,938	June 14	1062	277	39	1293
Jeffers, Wallace W. D., Ticonderoga, N. Y. Pulp-engine	371,460	Oct. 11	1023	266 267	41	208
Jeffers, Wallace W. D., Ticonderoga, N. Y. Machine for preparing paper-pulp	371,760	Oct. 18	1454	376	41	304
Jefferson, Ira A., Salt Lake City, Utah Ter. Horse-power	355,936	Jan. 11	916	238 239	38	186
Jeffery, Elijah Y., et al. (See Cantrell, William B., assignor.)						
Jeffery, Thomas B., Ravenswood, Ill. Velocipede	365,074	June 21	1267	334	39	1340
Jeffery, Thomas B., Chicago, Ill. Velocipede	355,321	Jan. 4	39	11	38	9
Jeffery, Thomas B., Chicago, Ill. Oiling-can	358,932	Mar. 8	768	192	38	1050
Jeffery, Thomas B., Chicago, Ill. Bicycle-backbone	359,608	Mar. 22	1760	447	38	1258
Jeffery, Thomas B., Chicago, Ill. Velocipede	359,609	Mar. 22	1761	447	38	1258
Jeffery, Thomas B., Chicago, Ill. Velocipede	366,218	July 12	641	174	40	129
Jeffery, Thomas B., Chicago, Ill. Velocipede-handle	366,775	July 19	1414	378	40	283
Jeffery, Thomas B., Chicago, Ill. Securing rubber tires in wheel-rims	370,396	Sept. 27	1564	419	40	1352
Jeffery, Thomas B., Chicago, Ill. Bicycle-holder	371,326	Oct. 11	836	214	41	172
Jeffery, Thomas B., and L. M. Cottle, Chicago, Ill. Bicycle-backbone-bending machine	361,523	Apr. 19	1608	416 417	39	317
Jeffrey, Joseph A. (See Dierdorff, Henry B., assignor.)						
Jeffrey, Joseph A. (See Doubleday, Henry H., assignor.)						
Jeffrey, Joseph A. (See Fertick, Benjamin F., assignor.)						
Jeffrey, Joseph A., Columbus, Ohio. Drive-chain	366,587	July 12	1148	307	40	228
Jeffrey, Joseph A., Columbus, Ohio. Chain and chain-making	373,983	Nov. 29	2555	687	41	985
Jeffrey, Joseph A., Columbus, Ohio, assignor to Jeffrey Manufacturing Company. Carrier. Jeffrey Manufacturing Company. (See Jeffrey, Joseph A., assignor.)	374,477	Dec. 6	436	114	41	1129
Jeffreys, L. A. (See Williams, Henry B., assignor.)						
Jeffreys, Lemuel A., et al. (See Whipple, Henry D., assignor.)						
Jelinsky, Gustav. (See Jelinsky, Henry and G.)						
Jelinsky, Henry and G., Oakland, Cal. Plow	366,667	July 19	1265	337	40	256
Jelks, Huff, Centreville, Miss. Cultivator	358,453	Mar. 1	42	12	38	911
Jenckes, Joseph E. (See Mitchell and Jenckes.)						
Jenisch, Waldemar, assignor of one-half to H. Löhnert, Bromberg, Prussia, Germany. Grinding-mill	367,043	July 26	1759	475	40	357
Jenison, Elias P., Rock Valley, Iowa. Violin tail-piece	357,283	Feb. 8	787	204	38	576
Jenkins, Benjamin R., agent. (See Bingham, Solon, assignor.)						
Jenkins, Charles, Boston, Mass. Valve	362,630	May 10	801	219	39	629

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Jenkins, Charles S., Lansdale, Pa. Plow.....	355,534	Jan. 4	311	83	38	63
Jenkins, David. (See Nash, John M., assignor.)						
Jenkins, Edward W., Norristown, Pa. Harvesting-machine.....	364,653	June 14	623	{ 168 169 }	{ 39 }	1214
Jenkins, Edward W., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Grain-binder for harvesters.....	360,962	Apr. 12	813	{ 209 210 }	{ 39 }	156
Jenkins, Elijah W., Milford, Mo. Fish-trap and feeding-pen.....	370,702	Sept. 27	2029	540	40	1438
Jenkins, Francis E., Frankville, Ga. Belt-fastener.....	370,873	Oct. 4	181	48	41	36
Jenkins, Frank W., Brooklyn, N. Y. Candlestick.....	368,474	Aug. 16	1650	440	40	782
Jenkins, Henry C. (See Smith and Jenkins.)						
Jenkins, Henry S., trustee. (See Dunham, Henry, assignor.)						
Jenkins, Jinken J. (See Miles and Jenkins.)						
Jenkins, Joel. (See Bond, Addie, assignor.)						
Jenkins, Joel. (See Carpenter, Daniel A., assignor.)						
Jenkins, Joel, Montclair, N. J. Safety-pin.....	355,535	Jan. 4	313	83	38	63
Jenkins, Joel, Montclair, N. J. Safety-pin.....	365,075	June 21	1268	335	39	1341
Jenkins, Joel, Montclair, N. J. Safety-pin.....	367,107	July 26	1857	501	40	375
Jenkins, Lancaster Z., Philadelphia, Pa. Chamber and water bucket.....	357,390	Feb. 8	934	245	33	604
Jenkins, Marion R., assignor of one-half to W. J. McCray and B. D. Bolling, Browning, Mo. Hay loader and stacker.....	374,966	Dec. 20	1167	305	41	1290
Jenkins, Nicholas, Waterbury, Conn., assignor to Holmes, Booth & Haydens, New York, N. Y. Balancing attachment for automatic lamp-suspending devices.....	374,478	Dec. 6	437	114	41	1130
Jenkins, Philip O., Washington, D. C. Incandescent electric lamp.....	365,384	June 28	1731	448	39	1439
Jenkins, Salmon F. (See Hussey, George F., assignor.)						
Jenkins, Thomas W., Philadelphia, Pa. Air-feeding device for furnaces.....	357,391	Feb. 8	934	246	38	605
Jenkins, Warner H., Philadelphia, Pa. Artificial pavement.....	374,124	Nov. 29	2757	741	41	1025
Jenkins, William L., Boston, Mass. Stenographer's practice-sheet.....	356,474	Jan. 25	1686	440	38	345
Jenkins, William R., Jr., Bellefonte, Pa. Power-hammer.....	358,672	Mar. 1	379	91	38	974
Jenkins, William R., Jr., Bellefonte, Pa. Power-hammer.....	370,260	Sept. 20	1361	365	40	1306
Jenkins, William R., Jr., Bellefonte, Pa. Coal-carrying car.....	370,626	Sept. 27	1918	509	40	1417
Jenkinson, Frederick, Minneapolis, Minn. Stone-saw mill.....	366,727	July 19	1350	{ 361 362 }	{ 40 }	272
Jenkinson, Frederick, Minneapolis, Minn. Stone-saw mill.....	366,728	July 19	1353	362	40	273
Jenkinson, Richard C., assignor to R. W. Chapman, Newark, N. J. Sheet-metal handle for traveling-bags. (Reissue).....	10,845	June 14	1204	318	39	1318
Jenks, Alvin F., Pawtucket, R. I., assignor to G. Draper & Sons, Hopedale, Mass., and Fales & Jenks Machine Company, Pawtucket, R. I. Ring-rail for spinning-machines, &c.....	355,823	Jan. 11	738	192	38	152
Jenks, Charles W., Philadelphia, Pa. Banker's case.....	367,403	Aug. 2	66	17	40	463
Jenks, Thomas M., Chicago, Ill. Railway-car signal.....	362,088	May 3	51	15, 16	39	4-2
Jenks, Thomas M., Chicago, Ill. Spiral cuff-fastener.....	375,358	Dec. 27	1703	447	41	1401
Jenner, Ernst, and G. Eiserer, Chicago, Ill. Stroke-jointer.....	373,293	Nov. 15	1531	{ 404 405 }	{ 41 }	770
Jenness, Orlando, Boston, Mass. Curry-comb.....	360,301	Mar. 29	2847	725	38	1464
Jenney, Charles D., Indianapolis, Ind. Automatic regulator for dynamo-electric machines.....	373,369	Nov. 15	1656	{ 440 441 }	{ 41 }	793
Jennings, Arthur O., Southport, Conn. Watch.....	372,754	Nov. 8	691	191	41	610
Jennings, John, assignor to K. C. Jennings, Cañon City, Colo. Rock-drilling machine.....	362,089	May 3	53	16	39	483
Jennings, John, assignor to L. E. Franck, Cañon City, Colo. Car-coupling.....	362,090	May 3	54	16	39	483
Jennings, John, assignor to L. E. Franck, Cañon City, Colo. Car-coupling.....	362,091	May 3	55	17	39	484
Jennings, Kittie C. (See Jennings, John, assignor.)						
Jennings, Oliver T., assignor to A. G. Jennings & Sons, Brooklyn, N. Y. Glove, mitten, &c.....	363,829	May 31	2504	650	39	975
Jennings, Russell, Sedalia, Mo. Tire-tightener.....	369,719	Sept. 13	561	153	40	1151
Jennings & Sons, A. G. (See Jennings, Oliver T., assignor.)						
Jensen, Carl J. B., Horsens, Denmark, assignor to C. Gärtner, Hamburg, Germany. Parquetry.....	363,960	May 31	2703	700	39	1012
Jensen, Hans P. F., B. W. Webb, and J. Jensen, London, county of Middlesex, England. Electric bell.....	369,989	Sept. 13	966	255	40	1225
Jensen, Jens. (See Jensen, Webb, and Jensen.)						
Jensen, Jens T., Benson, Minn. Heating and ventilating stove.....	360,885	Apr. 12	698	183	39	137
Jensen, Nicholay, Washington, D. C. Camp-kit.....	367,812	Aug. 9	697	{ 188 189 }	{ 40 }	591
Jensen, Nicholay, Washington, D. C. Match-safe and candlestick.....	367,813	Aug. 9	698	189	40	591
Jepson, Peter, Port Chester, N. Y. Grain-drying apparatus.....	373,140	Nov. 15	1294	344	41	728
Jermain, Sylvanus P., Toledo, Ohio. Adjustable support and automatic switch for telephones.....	370,193	Sept. 20	1280	341	40	1290
Jernander, Anders E., Rochester, Minn. Machine for cleaning or scouring wheat.....	359,867	Mar. 22	2155	544	38	1329
Jerome, Carleton C. (See Hibbard, Alfred T., assignor.)						
Jerome, Edward A., East Portland, Oreg. Laying-out machine.....	355,937	Jan. 11	917	239	38	186
Jerome, Samuel B., New York, N. Y. Horseshoe.....	371,327	Oct. 11	838	215	41	172
Jessen, James, Minneapolis, Minn. First-break machine for the reduction of wheat.....	362,582	May 10	719	{ 200 201 }	{ 39 }	615
Jesson, Pierre A., Paris, France, assignor to N. Weber, Lynn, Mass. Machine for stretching hides or skins. (Reissue).....	10,860	Aug. 23	2288	608	40	913
Jester, John, St. Joseph, Mo. Cork-holder.....	369,008	Aug. 30	2406	638	40	945
Jett, John, San Francisco, Cal. Pruning-shears.....	362,383	May 3	435	120	39	559
Jewell, Elias, Wheaton, Ill. Combined railway-chair and nut-lock.....	359,610	Mar. 22	1763	447	38	1258
Jewett, Charles W. and G. H., and B. F. Nichols, Jackson, Mich. Road-cart.....	363,241	May 17	1654	434	39	798
Jewett, George H. (See Jewett and Nichols.)						
Jewett, Josiah. (See Rohlf, Charles, assignor.)						
Jewett, Luther K. (See Susemihl and Jewett.)						
Jewett, Marcellus, assignor of one-half to E. G. Carter, Cleveland, Ohio. Picture-exhibitor.....	359,725	Mar. 22	1917	{ 486 487 }	{ 38 }	1287
Jewill, George J., Philadelphia, Pa. Electric covering for indicating abnormal conditions.....	362,010	Apr. 26	2337	609	39	456
Jeynes, Alfred W., Ansonia, Conn. Hat-hanger.....	372,151	Oct. 25	2049	525	41	424
Jezalik, Joseph, New York, N. Y. Paper box.....	370,481	Sept. 27	1696	450	40	1376
Jillson, Frank A., Racine, Wis. Indicator-lock.....	361,294	Apr. 19	1304	{ 334 335 }	{ 39 }	259
Jinnett, Barney C., High Point, N. C. Cotton-scraper.....	374,254	Dec. 6	119	31	41	1070
Jobson, Giles T., Augusta, Ga. Car-starter.....	364,939	June 14	1063	277	39	1293
Jocelyn, Albert H., et al. (See O'Connor, James L., assignor.)						
Joel, Samuel, New York, N. Y. Hand-vise.....	356,540	Jan. 25	1778	462	38	362
Joerke, William G., New York, N. Y. Alarm.....	373,073	Nov. 15	1196	319	41	709

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Johanson, J. August, <i>et al.</i> (See Wennersten, John P., assignor.)						
Johanson, Nils, Muskegon, Mich. Chemical fire-kindler.....	369,184	Aug. 30	2643	702	40	992
John, John W. (See Lewis, Johnson, and John.)						
John, William. (See Peters and John.)						
Johns, J. P., <i>et al.</i> (See Brown, Henry, assignor.)						
Johns, James C., Baltimore, Md. Nut-lock.....	375,294	Dec. 20	1611	423	41	1376
Johns, Will R., assignor of one-half to H. E. Harbaugh, Rockford, Ill. Pulley.....	370,017	Sept. 13	1018	269	40	1234
Johnson, A. D., <i>et al.</i> (See Potts, George, assignor.)						
Johnson, A. L., trustee. (See Josleyn, William, assignor.)						
Johnson, A. L., trustee. (See Watkins, Harry, assignor.)						
Johnson, Abraham K., assignor of one-half to W. H. Calvert, St. Louis, Mo. White-lead cooler.....	361,590	Apr. 19	1709	442	39	334
Johnson, Albert W., assignor to S. Halliwell, New Haven, Conn. Button-hole attachment for sewing-machines.....	374,479	Dec. 6	438	{ 114 115 }	{ 41 41 }	1130
Johnson, Albert W., New Haven, assignor to Peerless Button Hole Attachment Company, Tyler City, Conn. Button-hole attachment for sewing-machines.....	374,837	Dec. 13	952	249	41	1241
Johnson, Alexander G., New York, N. Y. Miter-box.....	366,842	July 19	1506	403	40	300
Johnson, Alvin P., Boston, Mass. Puzzle.....	360,444	Apr. 5	71	18	39	15
Johnson, Andrew C., Rockford, Ill. Laying veneers.....	355,322	Jan. 4	41	11	38	9
Johnson, Andrew G., Rockford, Ill. Sash-balancing device.....	357,204	Feb. 8	686	177	38	557
Johnson, Andrew M. (See Lewis, Johnson, and John.)						
Johnson, August, <i>et al.</i> (See Wennersten, John P., assignor.)						
Johnson, Benjamin F., Hickory, Miss. Cultivator-plow.....	373,187	Nov. 15	1375	364	41	741
Johnson, Bernt M., Racine, Wis. Horse-collar fastener.....	357,831	Feb. 15	1594	413	38	736
Johnson, Bernt M., Racine, Wis. Hame-fastener.....	371,761	Oct. 18	1455	376	41	304
Johnson, Charles A., St. Paul, Minn. Hub-attaching device.....	355,398	Jan. 4	138	37	38	29
Johnson, Charles C., assignor to H. H. Mason, Springfield, Vt. Mop-head.....	367,044	July 26	1759	475	40	357
Johnson, Charles C., assignor to H. H. Mason, Springfield, Vt. Mop.....	367,045	July 26	1760	475	40	357
Johnson, Charles H., Birmingham, Conn. Combination-tool.....	366,322	July 12	784	212	40	156
Johnson, Charles M., Chicago, Ill. Pneumatic dispatch tube and carrier.....	372,023	Oct. 25	1842	477	41	388
Johnson, Charles M., Chicago, Ill. Pneumatic dispatch-tube system.....	372,223	Oct. 25	2156	553	41	444
Johnson, Charles R. (See Johnson, Henry and C. R.)						
Johnson, Charles R., Allegheny City, Pa. Operating switches, signals, &c., for draw-bridges.....	361,419	Apr. 19	1475	381	39	290
Johnson, Charles R., Allegheny, and H. Johnson, Pittsburg, Pa. Railway-crossing.....	356,364	Jan. 18	1530	402	38	308
Johnson, Charles R., Allegheny, and H. Johnson, Pittsburg, Pa. Safety-lock for switch-points.....	358,933	Mar. 8	769	192	38	1051
Johnson, Charles S. (See Parker, Guilford, assignor.)						
Johnson, Charles W., Philadelphia, Pa. Car-seat.....	358,454	Mar. 1	43	12	38	912
Johnson, Charles W., Holyoke, Mass. Electrical apparatus for regulating temperature.....	359,392	Mar. 15	1397	358	38	1175
Johnson, Daniel, Ashland, Ohio. Force-pump.....	371,197	Oct. 11	659	168	41	138
Johnson, Daniel A., Boston, Mass. Thill-coupling.....	365,131	June 21	1356	359	39	1356
Johnson, Darley C., and J. P. Ryan, Brooklyn, N. Y. Refining gold and silver.....	370,338	Sept. 20	1470	.....	40	1327
Johnson, David, assignor of one-half to J. Ruesing and C. Schueth, Sr., West Point, Nebr. Combined pulverizer and cornstalk-cutter.....	373,370	Nov. 15	1659	441	41	794
Johnson, David D., U. S. Army. Apparatus for obtaining liquid carbon dioxide.....	370,703	Sept. 27	2030	{ 540 541 }	{ 40 40 }	1438
Johnson, David D., U. S. Army. Apparatus for storing liquid ammonia.....	373,741	Nov. 22	2207	590	41	912
Johnson, Edward H., New York, N. Y. Telephone.....	356,688	Jan. 25	1982	521	38	401
Johnson, Edward H., New York, N. Y. Telephone.....	356,689	Jan. 25	1983	521	38	401
Johnson, Edward H., New York, N. Y. Electrical conductor.....	359,726	Mar. 22	1919	487	38	1288
Johnson, Edward H., New York, N. Y. Electrical apparatus for heating and cooling buildings.....	360,223	Mar. 29	2733	692	38	1442
Johnson Electric Service Company. (See Johnson, Warren S., assignor.) (Reissue.)						
Johnson, Emerson & Co. (See Emerson, Charles H., assignor.)						
Johnson, Ernest V., Chicago, Ill. Chimney-flue tile.....	366,323	July 12	785	212	40	156
Johnson, Eugene W. (See McClelland, John A., assignor.)						
Johnson, Frank B., Addison, N. Y. Carriage-step.....	366,111	July 5	487	132	40	92
Johnson, Frank C., Boston, Mass. Boom for sailing-yachts.....	358,673	Mar. 1	380	91	38	974
Johnson, Frank C., Boston, Mass. Boring bit or drill.....	369,248	Aug. 30	2719	723	40	1007
Johnson, Frank G., Chicago, Ill. Molding-machine.....	362,513	May 10	625	{ 176 177 }	{ 39 39 }	599
Johnson, Frank G., Brooklyn, N. Y. Conformer.....	365,385	June 28	1733	448	39	1439
Johnson, Frank G., New York, N. Y. Elevator.....	367,046	July 26	1761	{ 475 476 }	{ 40 40 }	358
Johnson, Frank R., Brooklyn, N. Y. Wash-basin stopper.....	367,814	Aug. 9	700	189	40	591
Johnson, Frank W., Cleveland, Ohio. Rubber for vehicle-wheels.....	374,967	Dec. 20	1170	305	41	1291
Johnson, Fredrik, Brooklyn, N. Y. Topical remedy.....	355,824	Jan. 11	739	.....	38	152
Johnson, G. W. (See Johnson, Monroe E., assignor.)						
Johnson, George F., Aurora, Ill. Stem winding and setting watch.....	356,134	Jan. 18	1211	321	38	248
Johnson, George H., Salisbury Furnace, Va. Post-hole digger.....	370,482	Sept. 27	1697	450	40	1376
Johnson, Greenleaf, Jr., Baltimore, Md. Machine for making tongue-and-groove flooring.....	366,841	July 19	1502	{ 401 402 403 }	{ 40 40 40 }	300
Johnson, Gustaf, Denver, Colo. Power mechanism for baling-presses.....	366,397	July 12	880	236	40	174
Johnson, Gustave A., Chicago, Ill. Gate for draw-bridges.....	365,132	June 21	1358	359	39	1356
Johnson, Hans G., Waukon, Iowa. Corn-planter.....	362,161	May 3	153	44	39	503
Johnson, Henry. (See Johnson, Charles R. and H.)						
Johnson, Henry, Philadelphia, Pa. Roller-skate wheel.....	355,399	Jan. 4	140	37	38	29
Johnson, Henry, Flixton, county of Lancaster, England, and C. R. Johnson, Pittsburg, Pa. Operating switches and signals for draw-bridges.....	361,420	Apr. 19	1477	{ 381 382 }	{ 39 39 }	291
Johnson, Henry, Swissvale, and C. R. Johnson, Allegheny, Pa. Mechanism for operating switches and signals.....	372,539	Nov. 1	376	101	41	542
Johnson, Henry C., Meadville, Pa. Fluid-pressure regulator.....	370,791	Oct. 4	57	14	41	13
Johnson, Henry H., Hawkinsville, Ga. Rubber-dam clamp.....	370,194	Sept. 20	1281	341	40	1291
Johnson, Ike, Honey Grove, Tex. Back-band for harness.....	356,250	Jan. 18	1362	360	38	276
Johnson, Isaac W., Sycamore, Ill. Reclining rocking-chair.....	357,205	Feb. 8	687	178	38	557
Johnson, Iver, Worcester, Mass. Hub-attaching device.....	357,321	Feb. 8	837	218	38	586
Johnson, Iver, and A. Fyrberg, Worcester, Mass.; said Fyrberg assignor to said Johnson. Revolver.....	357,085	Feb. 1	482	129	38	511
Johnson, Iver, and A. Fyrberg, Worcester, Mass.; said Fyrberg assignor to said Johnson. Revolver.....	362,631	May 10	803	219	39	629
Johnson, Iver, and A. Fyrberg, Worcester, Mass.; said Fyrberg assignor to said Johnson. Revolver.....	362,632	May 10	804	220	39	629

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Johnson, James H., and T. Belton, Camden, S. C. Cotton chopping and siding machine	375,492	Dec. 27	1879	491	41	1436
Johnson, Jeremiah P., Detroit, Mich. Wagon-gear	364,654	June 14	625	169	39	1214
Johnson, Jesse B., Indianapolis, Ind. Baling-press	361,764	Apr. 26	1964	{ 512 513 }	{ 39 38 }	389
Johnson, Jesse B. and O. B., Indianapolis, Ind. Press	356,475	Jan. 25	1687	441	38	345
Johnson, Jesse B. and O. B., Indianapolis, Ind. Baling-press	361,013	Apr. 12	196	226	39	170
Johnson, Jesse B. and O. B., Indianapolis, Ind. Baling-press	362,280	May 3	295	82	39	531
Johnson, John. (See Bennett and Johnson.)						
Johnson, John, Baton Rouge, La. Stem winding and setting watch	357,322	Feb. 8	838	219	38	586
Johnson, John A. (See Bartlett and Johnson.)						
Johnson, John B., Newton, Ill. Plant-tray	366,776	July 19	1416	378	40	284
Johnson, John B., Newton, Ill. Transplanter	371,072	Oct. 4	485	121	41	96
Johnson, John E., Lafayette, Ill. Draft-equalizer	357,832	Feb. 15	1595	414	38	736
Johnson, John E., Newark, N. J. Extension-table call-bell	358,614	Mar. 1	295	70, 71	38	958
Johnson, John F., and G. A. Clemeson, Milwaukee, Wis. Flier for printing-presses	374,071	Nov. 29	2680	720	41	1010
Johnson, John H., Traver, Cal. Hay-rake	369,060	Aug. 30	2484	660	40	960
Johnson, John H., Traver, Cal. Seed-drill	369,859	Sept. 13	756	202	40	1186
Johnson, John R., Hardinsburg, Ky. Thill-coupling	372,224	Oct. 25	2157	553	41	445
Johnson, John W., Mapleton, Kans. Harness neck-pad	374,189	Dec. 6	36	9	41	1053
Johnson, John W. R., Richmond, Va. Drawers	363,242	May 17	1655	434	39	798
Johnson, Joseph W. (See Walter, Henry C., assignor.)						
Johnson, Joseph W., and H. C. Brown, Jersey City, N. J. Door-check	373,984	Nov. 29	2557	687	41	986
Johnson, Josiah. (See Hancock and Johnson.)						
Johnson, Louis K., Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-containing channel	369,720	Sept. 13	563	{ 153 154 }	{ 40 39 }	1151
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus	356,840	Feb. 1	132	36, 37	38	447
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Printer's type-setting compartment	358,041	Feb. 22	1877	{ 496 497 }	{ 38 37 }	795
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus	360,096	Mar. 29	2527	{ 643 644 }	{ 38 37 }	1405
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus	360,097	Mar. 29	2534	{ 645 646 }	{ 38 37 }	1406
Johnson, Monroe E., Pittsburg, Kans., assignor to G. W. Johnson, Nashville, Mo. Motor for churns	361,421	Apr. 19	1480	382	39	291
Johnson, Nels, Gladstone, Ill. Combined harness and horse-collar	366,219	July 12	643	174	40	129
Johnson, Nels O. G., et al. (See Johnson, Swen J., assignor.)						
Johnson, Oscar B. (See Johnson, Jesse B. and O. B.)						
Johnson, Otter, Lordsburg, N. Mex. Ter. Boot-upper	365,601	June 28	2059	537	39	1503
Johnson, Peter, Lonsville, Minn. Horn-tip for cattle	373,776	Nov. 22	2259	605	41	920
Johnson, Rebecca E., Brooklyn, N. Y. Doll	366,730	July 19	1354	363	40	273
Johnson, Richard G., assignor of one-half to J. C. Righter, Salem, N. J. Carrier for paint, lunch, &c.	372,267	Oct. 25	2221	569	41	457
Johnson, Roemer, Tacaleeche, Miss. Seed-planter	364,824	June 14	894	236	39	1262
Johnson, S., et al. (See Potts, George, assignor.)						
Johnson, Sarah C. (See Winter, Caroline H., assignor.)						
Johnson Steel Street Rail Company. (See Du Pont, Alfred V., assignor.)						
Johnson Steel Street Rail Company. (See Entwisle, Edward B., assignor.)						
Johnson Steel Street Rail Company. (See Marshall, Charles A., assignor.)						
Johnson Steel Street Rail Company. (See Meysenburg, Otto W., assignor.)						
Johnson Steel Street Rail Company. (See Richards, Calvin A., assignor.)						
Johnson, Swen J., assignor of two-thirds to N. O. G. Johnson and A. G. Anderson, Galesburg, Ill. Wooden shingle and making the same	359,571	Mar. 15	1677	428	38	1227
Johnson, Theodore, Alexandria, Minn. Automatic fire-extinguisher	370,874	Oct. 4	182	48	41	36
Johnson, Thomas, Paterson, N. J. Chenille-machine	366,729	July 19	1353	362	40	273
Johnson, Thomas, and W. Brandon, St. Louis, Mo. Broiler	366,960	July 19	1652	443	40	329
Johnson, Thomas A., Lynchburg, Va. Hat-hanger	375,634	Dec. 27	2088	544	41	1474
Johnson, Thomas O., assignor to himself and E. H. Munson, Meriden, Conn. Blast apparatus	363,294	May 17	1726	452	39	812
Johnson, Tom L., Cleveland, Ohio. Cable-car mechanism	362,633	May 10	807	{ 220 221 }	{ 39 38 }	629
Johnson, Tom L., Cleveland, Ohio. Traction mechanism for cable railways	362,634	May 10	809	{ 221 222 }	{ 39 38 }	630
Johnson, Tom L., Cleveland, Ohio. Pulley-box for curve-pulleys of railway cable roads	362,635	May 10	812	222	39	631
Johnson, Truman B. (See Smith and Johnson.)						
Johnson, Warren S., Milwaukee, Wis. Thermostatic circuit-closer	364,518	June 7	437	118	39	1170
Johnson, Warren S., Milwaukee, Wis. Automatic electric temperature-regulator	366,324	July 12	786	{ 212 213 }	{ 40 39 }	156
Johnson, Warren S., assignor to Johnson Electric Service Company, Milwaukee, Wis. Electric valve. (Reissue)	10,802	Jan. 25	2058	540	38	415
Johnson, Warren S., assignor to Johnson Electric Service Company, Milwaukee, Wis. Electric temperature-regulator	374,072	Nov. 29	2681	721	41	1011
Johnson, Will W., and P. P. Rickenbacher, Washington, D. C. Brake-block	361,422	Apr. 19	1481	382	39	291
Johnson, Willard D., Washington, D. C. Tripod-head	362,384	May 3	435	121	39	559
Johnson, William C., Seymour, Conn. Die for making auger-bits	359,393	Mar. 15	1400	358	38	1175
Johnson, William C., assignor to A. H. Crockford, Newark, N. J. Sash-fastener	373,935	Nov. 29	2558	{ 687 688 }	{ 41 40 }	986
Johnson, William H., Industry, Me. Machine for bending shovel-handles	368,475	Aug. 16	1651	{ 440 441 }	{ 40 39 }	782
Johnson, William H., assignor of one-half to Hurlbut Manufacturing Company, Racine, Wis. Bolt-cutting machine	367,404	Aug. 2	67	17	40	463
Johnson, William H., assignor of one-half to J. V. Emmitt, Sterling, Ill. Registering post-office stamp	367,714	Aug. 2	553	151	40	555
Johnson, William J., Newton, assignor to National Manufacturing Company, Worcester, Mass. Egg-beater	359,976	Mar. 22	2326	585	38	1361
Johnson, William R., assignor of one-half to G. A. Downs, Waltham, Mass. Drum	365,817	July 5	79	23	40	17
Johnson, William T., Brooklyn, N. Y. Painting-machine	356,201	Jan. 18	1296	{ 342 343 }	{ 38 37 }	263
Johnston, A. Langstaff, Richmond, Va. Smoking-pipe	370,195	Sept. 20	1282	341	40	1291
Johnston, Allen, Ottumwa, Iowa. Screw-machine	363,144	May 17	1526	404	39	773
Johnston, Allen, Ottumwa, Iowa. Screw-machine	368,533	Aug. 16	1732	461	40	797
Johnston, Allen, Ottumwa, Iowa. Ruffling attachment for sewing-machines	368,923	Aug. 23	2283	607	40	912
Johnston, Alva S., Bozeman, Mont. Ter. Bridle-bit	356,942	Feb. 1	275	76	38	472
Johnston, Edward H., Philadelphia, Pa. Locking device for railway-switches	356,841	Feb. 1	137	38	38	448

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Johnston, Frederic J. (See Brown and Johnston.)						
Johnston, George, Detroit, Mich. Trial-case for optical lenses.....	368,720	Aug. 23	2004	530	40	857
Johnston Harvester Company. (See Cooley, Orville, assignor.)						
Johnston Harvester Company. (See Marshall, Thomas S., assignor.)						
Johnston Harvester Company. (See McLachlan, John C., assignor.)						
Johnston Harvester Company. (See Tucker, James W., assignor.)						
Johnston, Hugh, Toronto, Ontario, Canada. Plow-guard and underscore.....	368,290	Aug. 16	1392	367	40	731
Johnston, Isaiah. (See Kimber, Frank D., assignor.)						
Johnston, James. (See Donovan, Hazlett, and Johnston.)						
Johnston, James B. (See Farwell, Pulaski, assignor.)						
Johnston, James J., Columbiana, Ohio, assignor of one-half to A. C. Ellis, Pittsburg, Pa. } Process of and apparatus for manufacturing illuminating-gas.....	356,476	Jan. 25	1689	{ 441 442 }	38	345
Johnston, James J., Columbiana, Ohio, assignor of one-half to A. C. Ellis, Pittsburg, Pa. } Process of and apparatus for manufacturing heating-gas.....	356,477	Jan. 25	1693	{ 442 443 }	38	346
Johnston, James J., Columbiana, Ohio, assignor of one-half to A. C. Ellis, Pittsburg, Pa. } Process of and apparatus for manufacturing gas.....	356,587	Jan. 25	1843	484	38	374
Johnston, Jesse C., Douglass, Kans. Car-coupling.....	355,612	Jan. 4	412	113	38	82
Johnston, John, Jersey City, N. J. Truck for locomotives.....	374,305	Dec. 6	193	51	41	1082
Johnston, John, Hartford, Conn. Chuck.....	371,762	Oct. 18	1456	{ 376 377 }	41	305
Johnston, John, assignor to Hartford Machine Screw Company, Hartford, Conn. Speed- } changing mechanism.....	371,265	Oct. 11	754	{ 193 194 }	41	156
Johnston, John C., Douglasville, Ga. Cotton-picking machine.....	358,273	Feb. 22	2216	585	38	857
Johnston, John S., Alton, assignor to Pfanschmidt, Dodge & Co., Chicago, Ill. Wash- } board.....	364,419	June 7	297	82	39	1145
Johnston, Jones A., Rochester, N. Y. Steam washing-machine.....	366,220	July 12	644	175	40	130
Johnston, Leonard J., Bergen Point, N. J. Signal for railway draw-bridges.....	358,201	Feb. 22	2122	560	38	839
Johnston, Leonard J., Bergen Point, N. J. Automatic signal for draw-bridges.....	365,818	July 5	80	23	40	17
Johnston, Nicholas. (See Andrews, John J., assignor.)						
Johnston, Norwood, and A. B. Carll, Washington, Pa. Rotary meter for gas.....	373,406	Nov. 15	1709	452	41	803
Johnston, Robert, and G. W. Peifer, Jr., Wilkes-Barre, Pa. Bicycle.....	360,595	Apr. 5	298	73	39	57
Johnston, Robert G., and G. A. Buffington, Orchard, Nebr. Vent-stopper for pumps.....	375,635	Dec. 27	2089	544	41	1474
Johnston, Walter R. (See Leipner, William A., assignor.)						
Johnston, William, et al. (See Lloyd, Evan, assignor.)						
Johnston, William R., San Francisco, Cal. Spectacle-frame.....	357,392	Feb. 8	935	246	38	605
Johnston, William T., Newport, Ky. Safety attachment for steam or other pipes.....	370,339	Sept. 20	1472	395	40	1327
Johnstone, William H. (See Hart, William H., assignor.)						
Joiner, Charles N., et al. (See Harsen, Marion A., assignor.)						
Joline, Ferdinand S., assignor of one-fourth to C. L. Buckingham, New York, N. Y. Trav- } eling-bag, valise, &c.....	369,794	Sept. 13	658	179	40	1168
Jolliffe Manufacturing Company of New Jersey. (See Jolliffe, William H., assignor.) (Re- } issue.)						
Jolliffe, William H., Baltimore, Md., assignor to Jolliffe Manufacturing Company of New } Jersey. Combined awning and blind. (Reissue).....	10,798	Jan. 18	1631	427	38	326
Joly Stopper Company. (See Rehfuess, Martin O., assignor.)						
Jonasson, Carl J., Cumberland, Md. Windmill.....	367,405	Aug. 2	68	18	40	463
Jones, Ambrose P. S., Dymchurch, county of Kent, England. Harmonica.....	362,970	May 17	1290	342	39	726
Jones, Arthur E., Union City, Conn. Button.....	362,281	May 3	296	82	39	531
Jones, Barrett L., Calhoun's Mills, S. C. Combined cotton chopper and cultivator.....	365,007	June 14	1160	304	39	1311
Jones, Benjamin F., and J. F. Mains, assignors of one-third to C. C. Caldwell, Indianapolis, } Ind. Bag-lock.....	363,337	May 17	1787	468	39	824
Jones, Benjamin F., and J. F. Mains, assignors of one-third to C. C. Caldwell, Indianapolis, } Ind. Bag-lock.....	363,338	May 17	1788	469	39	824
Jones, Calvin M., Fresno, assignor of one-half to S. C. Booth, Selma, Cal. Car-coupling.....	371,073	Oct. 4	486	122	41	96
Jones, Charles E., Elgin, Ill. Watch-regulator.....	365,688	June 28	2182	{ 569 570 }	39	1526
Jones, Charles E., assignor of one-half to J. A. Rose, Maryville, Mo. Carpet-stretcher.....	371,891	Oct. 18	1659	428	41	344
Jones, Charles H., Corry, Pa. Baby-jumper with crib and vehicle attachment.....	364,592	June 7	549	{ 147 148 }	39	1191
Jones, Charles N., Ann Arbor, Mich. Stencil-printing machine.....	370,947	Oct. 4	310	76, 77	41	62
Jones, Charles T., Utica, N. Y. Binding attachment for sewing-machines.....	359,572	Mar. 15	1678	428	38	1227
Jones, Clarence H. (See Hyde and Jones.)						
Jones, Daniel, Boston, Mass. Sucker-rod for pumps.....	372,804	Nov. 8	798	213	41	627
Jones, David, assignor of one-half to D. D. McCoy, Bay View, Wis. Nail-plate feeder.....	356,646	Jan. 25	1935	507	38	392
Jones, Dudley E. (See Sailor, David A., assignor.)						
Jones, Dudley E. (See Wherry and Turman, assignors.)						
Jones, Edgar, Albany, N. Y. Machine for forming boot or shoe heels.....	374,536	Dec. 6	525	137	41	1147
Jones, Edward, Flint, Mich. Stitching-horse.....	371,198	Oct. 11	661	168	41	138
Jones, Edward S., Providence, R. I. Sliding top-mast rigging for boats.....	367,715	Aug. 2	555	152	40	555
Jones, Ferdinand P. (See Smith and Jones.)						
Jones, Florentine A., Malden, Mass. Pressure-regulating valve.....	356,318	Jan. 18	1458	{ 383 384 }	38	294
Jones, Florentine A., Malden, Mass. Steam-boiler or other furnace.....	360,886	Apr. 12	699	{ 183 184 }	39	137
Jones, Florentine A., Malden, Mass. Steam-boiler or other furnace.....	360,887	Apr. 12	700	{ 184 185 }	39	137
Jones, Francis C., Ouachita Parish, La. Station-indicator and calendar.....	365,184	June 21	1425	375	39	1369
Jones, Francis W., New York, N. Y. Quadruplex telegraphy.....	360,528	Apr. 5	199	49	39	39
Jones, Frank. (See Maysent and Jones.)						
Jones, Frederick V., and J. G. Jarvis, Adams, Mass., assignors to American Zylonite Com- } pany, New York, N. Y. Making hollow forms from plastic material.....	368,591	Aug. 23	1809	482	40	821
Jones, George, Chicago, Ill. Self-feeding heater.....	359,678	Mar. 22	1849	{ 469 470 }	38	1275
Jones, George H., assignor of one-half to J. Hart, Rochester, N. Y. Heel and toe pro- } tector.....	357,772	Feb. 15	1523	396	38	722
Jones, George W., Cleveland, Ohio. Steam rock-drill.....	373,894	Nov. 29	2434	653	41	962
Jones, Gilbert E., New York, N. Y. Galley.....	365,308	June 21	1603	417	39	1402
Jones, Griff H., and L. P. Holt, Cleveland, Ohio. Roller-curtain.....	366,112	July 5	488	132	40	92
Jones, Griffith L., assignor to Reading Hardware Company, Reading, Pa. Chuck.....	366,485	July 12	985	267	40	195
Jones, Halcott P., Hillsborough, N. C. Car-coupling.....	372,268	Oct. 25	2222	569	41	457
Jones, Henry M., New York, N. Y. Fire-escape.....	362,448	May 3	529	147	39	577
Jones, Henry W., Plumstead, county of Kent, assignor to Nordenfelt Guns and Ammuni- } tion Company, (limited,) Westminster, England. Apparatus for adjusting and retain- } ing the sights for ordnance.....	367,815	Aug. 9	701	189	40	591

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Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Screw-nail	355,825	Jan. 11	739	193	38	152
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Wood-screw	373,074	Nov. 15	1197	319	41	710
Jones, James. (See Pearce and Jones.)						
Jones, James D., Columbiana, assignor of one-third to F. H. Townsend, Alliance, Ohio. Wire fence	372,625	Nov. 1	507	138	41	566
Jones, James E. (See Flowers, Malon I., assignor.)						
Jones, James H. (See Pursell, William C., assignor.)						
Jones, James H., assignor to Emerson, Talcott & Company, Rockford, Ill. Corn-planting machine	374,537	Dec. 6	527	{ 138 139 }	{ 41 }	1148
Jones, James H., assignor to Emerson, Talcott & Company, Rockford, Ill. Walking-cultivator	374,538	Dec. 6	532	139	41	1149
Jones, James H., assignor to Emerson, Talcott & Company, Rockford, Ill. Seeding-machine	374,539	Dec. 6	534	139	41	1149
Jones, James P., St. Louis, Mo. Medical compound	367,406	Aug. 2	71	.....	40	464
Jones, Jeremiah C., Crystal Falls, and S. B. Marshall, Denton, assignors of one-third to A. W. Robertson, Denton, Tex. Attachment for harvesters and mowing-machines	365,749	June 28	2277	592	39	1543
Jones, John A., Tuscarora, Nev. Ore-concentrator	370,145	Sept. 20	1209	320	40	1277
Jones, John E., New York, N. Y. Window frame and sash	356,943	Feb. 1	276	76	38	472
Jones, John M., New York, N. Y. Animal-trap	371,763	Oct. 18	1457	377	41	305
Jones, John M. C. (See Hutson and Jones.)						
Jones, John R., Clarksville, Iowa. Egg-case	357,484	Feb. 8	1064	281	38	629
Jones, John S., New York, N. Y. Mechanical telephone	358,357	Feb. 22	2327	617	38	878
Jones, John W., Utica, N. Y. Cloth-board and tag therefor	357,604	Feb. 15	1258	330	38	675
Jones, John Y., deceased, Western College, Iowa, (L. A. Jones administratrix.) Corn-planter	367,407	Aug. 2	72	19	40	464
Jones & Laughlins. (See Atkinson, James, assignor.)						
Jones, Llewellyn E., assignor to Frazer & Jones Co., Syracuse, N. Y. Hame-ring	358,742	Mar. 1	471	115	38	991
Jones, Louis D., assignor of one-half to W. E. Shaw, Chicago, Ill. Chuck	374,743	Dec. 13	818	215	41	1216
Jones, Louis H., Brooklyn, N. Y. Door-securer	366,843	July 19	1508	403	40	301
Jones, Lucy A., administratrix. (See Jones, John Y.)						
Jones, Marcus J., Penn Yan, N. Y. Drug-mixing machine	362,971	May 17	1291	343	39	726
Jones, Mariana T., Boston, Mass. Garment-supporter	360,224	Mar. 29	2736	693	38	1448
Jones, Mariana T., Boston, Mass. Cuff-holder	371,328	Oct. 11	838	215	41	172
Jones, Norman B., Murphysborough, Ill. Leather-cutter	358,779	Mar. 1	525	128	38	1001
Jones, Norman C., Garden City, Kans. Stirrup	355,695	Jan. 11	547	144	38	117
Jones, Owen R., Williamsburg, Iowa. Veterinary remedy	359,611	Mar. 22	1763	.....	38	1259
Jones, Owen W., New Cambria, Mo. Device for preserving eggs	358,455	Mar. 1	45	12	38	912
Jones, R. A. (See Williams, James H., assignor.)						
Jones, Reuben, assignor of three-fourths to C. A. Sindall, Atlanta, Ga. Car-coupling	361,823	Apr. 26	2052	534	39	406
Jones, Reuben, assignor of two-thirds to J. A. Fitten, Atlanta, and J. B. Gordon, DeKalb County, Ga. Car-coupling	368,214	Aug. 16	1266	337	40	707
Jones, Richard R., Lexington, Va. Two-wheeled vehicle	374,873	Dec. 13	1007	263	41	1251
Jones, Richard W., Syracuse, N. Y. Snap-hook	358,813	Mar. 1	578	144	38	1011
Jones, Richard W., Syracuse, N. Y. Harness-saddle	359,078	Mar. 8	957	245	38	1086
Jones, Richard W., Syracuse, N. Y. Hook	361,524	Apr. 19	1610	417	39	317
Jones, Richard W., Syracuse, N. Y. Hame	370,196	Sept. 20	1283	342	40	1291
Jones, Robert, and W. Taylor, Liverpool, county of Lancaster, England, assignors to H. Thomas, New York, N. Y. Breech-loading gun	370,740	Sept. 27	2088	554	40	1448
Jones, Samuel, What Cheer, Iowa. Coal-drilling machine	358,202	Feb. 22	2123	560	38	839
Jones' Sons, Aaron. (See Whitmore, Emma, assignor.)						
Jones, Thomas J. (See Tasker and Jones.)						
Jones, Thomas J., assignor to Primary Battery Company, (limited,) 12 Prince's Street, Hanover Square, county of Middlesex, England. Voltaic battery	358,120	Feb. 22	2002	527	38	816
Jones, Wiley, Norfolk, Va. Shoe-stretcher	358,456	Mar. 1	46	13	38	912
Jones, William, San Francisco, Cal. Sampling apparatus	359,158	Mar. 8	1058	275	38	1106
Jones, William, San Francisco, Cal. Storage-floor	359,159	Mar. 8	1060	276	38	1107
Jones, William, assignor of one-half to R. C. Powell, London, England. Transfer-sheet	369,795	Sept. 13	659	.....	40	1168
Jones, William E., et al., executors. (See Stuntz and Clerke.)						
Jones, William E., and H. Winniatt, El Paso, Tex. Pipe-connection	359,394	Mar. 15	1401	359	38	1176
Jones, William H., Liberty, Ind. Mail-sack	367,408	Aug. 2	73	19	40	464
Jones, William W., Buffalo, N. Y. Adjustable pillow-sham holder	369,009	Aug. 30	2407	{ 638 639 }	{ 40 }	945
Jones, Willis C., Hamilton, Ohio. Gear-cutter	367,047	July 26	1763	476	40	358
Jones, Willis C., and W. S. Rogers, Hamilton, Ohio. Gearing	361,222	Apr. 12	1212	308	39	230
Jones, Woodruff & Co. (See Shaffer, Charles H., assignor.)						
Jones, Zach. (See McLeod, Alexander, assignor.)						
Jones, Zachariah F., Scottsville, Va. Nut-lock	360,699	Apr. 5	437	112	39	81
Jonson, Julius, New York, N. Y. Construction of tunnels for cable railways	368,834	Aug. 23	2152	{ 570 571 }	{ 40 }	886
Jönsson, Sven, Copenhagen, Denmark. Automatic belt-shifting device	360,775	Apr. 5	537	139	39	101
Jooss, Richard, Heidenheim-on-the-Brenz, Württemberg, Germany. Pattern-marked fabric for garments	355,874	Jan. 11	818	214	38	166
Jopson, George W. (See Crandall, Nathan W., assignor.)						
Jordan, Arthur C., Era, Va. Paper box	362,583	May 10	724	201	39	616
Jordan, Arthur C., Era, Va. Paper box	370,483	Sept. 27	1698	451	40	1376
Jordan, Charles S., New York, N. Y., assignor to Singer Manufacturing Company of New Jersey. Button-hole sewing-machine	366,006	July 5	351	95	40	67
Jordan, Edmund, Brooklyn, N. Y., assignor to Stiles & Parker Press Company, Middletown, Conn. Die-press	361,633	Apr. 19	1778	460	39	349
Jordan, Edward B. (See Schmiedl, Anton, assignor.)						
Jordan, Frank, Mobile, Ala. Lifting-jack	355,323	Jan. 4	43	12	38	10
Jordan, Frank, Mobile, Ala. Railway-fusee	356,135	Jan. 18	1212	321	38	248
Jordan, George, New York, N. Y. Apparatus for drying wall-paper	358,274	Feb. 22	2218	585	38	857
Jordan, George, New York, N. Y. Apparatus for distilling alcohol and other volatile substances	358,615	Mar. 1	297	71	38	958
Jordan, Henry W., Hoboken, G. W. Mills, Elizabeth, N. J., and L. Jordan, New York, N. Y. Sand-box for railway-cars	365,076	June 21	1269	335	39	1341
Jordan, Horatio, Northampton, assignor to D. S. Loomis, Springfield, Mass. Wick-trimmer	356,319	Jan. 18	1460	384	38	294
Jordan, Horatio, assignor to W. W. Lee, Northampton, Mass. Welding the ends of metal tubes	365,819	July 5	81	23	40	17
Jordan, James T., Rupee, Tex. Cotton-blocker	370,875	Oct. 4	183	48	41	36

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Jordan, Jesse, assignor of one-half to I. C. Plant, Macon, Ga. Sealing attachment for freight-cars	368,152	Aug. 9	1175	313	40	682
Jordan, John E., Rupee, Tex. Gearing for operating windmill-pumps	369,602	Sept. 6	397	110	40	1111
Jordan, Julia H. (See McDougall, Samuel T., assignor.)						
Jordan, Louis. (See Jordan, Mills, and Jordan.)						
Jordan, Michael, <i>et al.</i> (See King, George H., assignor.)						
Jordan, Richard C., Ottawa, Ill. Hay-carrier	365,750	June 28	2278	592	39	1543
Jordan, Sidney L., Lakeville, assignor to himself, J. A. Dunphe, and M. Carver, Bridge-water, Mass. Cotton-gin rib	364,176	May 31	3000	778	39	1070
Jordan, W. M. (See Abbott, Paschal J., assignor.)						
Jordan, Washington I., East Braintree, Mass. Bag-holder	362,092	May 3	56	17	39	484
Jording, August, Ruhrort, Prussia, Germany. Calendar	371,944	Oct. 25	1733	448	41	367
Jory, Hugh S., Salem, Oreg. Furnace for fruit-driers and other uses	356,045	Jan. 11	1070	281	38	216
Jory, Mary, Salem, Oreg. Pie-holder	369,112	Aug. 30	2557	680	40	973
Joslevy, William, Bedford, Quebec, Canada, assignor to A. L. Johnson, trustee, Syracuse, N. Y. Fertilizer-distributor	374,155	Nov. 29	2797	751	41	1032
Joslin, Alexander D., Chicago, Ill. Hand-stamp	373,589	Nov. 22	1995	529 } 530 }	41	868
Joslyn, Elias P., Bergen, N. Y. Thill-coupling	371,506	Oct. 11	1092	284	41	222
Joss, George N., assignor to Eagle Machine Company, Lancaster, Ohio. Fodder-cutter	357,009	Feb. 1	372	99	38	491
Josselyn, William H., Bridgeport, Conn. Automatic water-signal	361,824	Apr. 26	2054	534	39	406
Joubert, Marcel. (See Greenwood, George, assignor.)						
Jourdan, Ferdinand, La Fare, Bouches-du-Rhone, assignor to Société Anonyme du Compresseur Jourdan, Aix, France. Oil-press	366,398	July 12	881	236	40	174
Jowell, George R., Thorp's Springs, Tex. Milk-cooler	360,808	Apr. 5	581	152	39	109
Joy, Clarence W., Atlanta, Idaho Ter. Concentrator	359,020	Mar. 8	888	226	38	1072
Joyce, Joseph A., Bridgeport, Conn. Making sweat-bands for hats	365,474	June 28	1860	483	39	1463
Joyce, Joseph L., New Haven, Conn. Machine for making egg-carriers	355,995	Jan. 11	1002	263 } 264 }	38	203
Joyce, Joseph L., New Haven, Conn. Egg-carrier	355,996	Jan. 11	1005	264	38	204
Joyce, Joseph L., New Haven, Conn. Egg-carrier	355,997	Jan. 11	1006	265	38	204
Joyce, Joseph L., New Haven, Conn. Heel-fastener for boots or shoes	366,844	July 19	1508	403 } 404 }	40	301
Joyce, Joseph L., New Haven, Conn. Heel for boots or shoes	366,845	July 19	1510	404	40	301
Joyner, Will. A., and C. N. Petesch, Chicago, Ill. Door opener and closer for furnaces	358,977	Mar. 8	827	209	38	1062
Judd, Charles A., Watertown, Wis. Sealing coin-bags	374,255	Dec. 6	120	31	41	1070
Judd, Charles B., Council Bluffs, Iowa. Voltaic belt	366,777	July 19	1417	378	40	284
Judd, David H., Bristol, Conn. Barrel-opener	373,528	Nov. 22	1913	507	41	853
Judd, Edwin Y., Hartford, Conn. Repeating mechanism for clocks	360,888	Apr. 12	702	185 } 186 }	39	137
Judd, James L. (See Wiard, Judd, and Bullock.)						
Judd, Oliver S., New Britain, Conn. Bracket-hook	361,634	Apr. 19	1780	460	39	349
Judd, Oliver S., New Britain, Conn. Fire-escape	372,982	Nov. 8	1052	282	41	673
Judge, James L., Milwaukee, Wis. Furnace	367,638	Aug. 2	416	116 } 117 }	40	530
Judson, Agur. (See Williams and Judson.)						
Judson, Egbert, San Francisco, Cal. Pipe-wrench	371,143	Oct. 4	583	149	41	115
Judson, Frederick H. (See Bertram, Leopold B., assignor.)						
Judson, Harriet, Brooklyn, N. Y. Water-proof garment	373,895	Nov. 29	2436	653 } 654 }	41	962
Judson, Horace H., Stratford, Conn. Ambulance	370,063	Sept. 20	1087	287	40	1254
Judson, Horace H., Stratford, Conn. Mattress for water-beds	370,064	Sept. 20	1088	287	40	1254
Judson, John S., Springfield, and J. Cameron, Cynthiana, Ohio, assignors to Cameron Harrow and Wagon Company, Chicago, Ill. Harrow	362,011	Apr. 26	2338	609 } 610 }	39	456
Judson & Son, Daniel. (See Oliver, William, assignor.)						
Juengst, George, Croton Falls, N. Y. Telegraphic transmitter	372,805	Nov. 8	799	214	41	628
Julien, Edmond, Brussels, Belgium, assignor to Julien Electric Company, New York, N. Y. Electric motor	375,676	Dec. 27	2147	558	41	1485
Julien Electric Company. (See Julien, Edmond, assignor.)						
Julien, Simeon, Nice, France. Apparatus for forming and dividing bombs or shells made of ice-cream	356,588	Jan. 25	1845	484	38	375
Juncker, Frederick, Paris, France. Foundation for embroidered lace, &c.	358,156	Feb. 22	2055	540	38	825
June Manufacturing Company. (See Corey, Daniel W., assignor.)						
Jungerich, Henry, <i>et al.</i> (See Frishmuth, William, assignor.)						
Junghaus, Arthur, assignor to Gebrüder Junghaus, Schramberg, Württemberg, Germany. Watch	370,146	Sept. 20	1210	320 } 321 }	40	1277
Junghaus, Gebrüder. (See Junghaus, Arthur, assignor.)						
Jungk, Franz, <i>et al.</i> (See Hirsching, Henry, assignor.)						
Jüngst, Carl, assignor of one-half to F. U. Benckendorff, Freienwalde, Oder, Prussia, Germany. Roofing-tile	367,758	Aug. 2	613	165 } 166 }	40	566
Junker, Jules, Philadelphia, Pa. Baking-oven	359,789	Mar. 22	2026	513	38	1306
Junod, Alfred, Ste. Croix Vaud, Switzerland, assignor to M. J. Paillard & Co., New York, N. Y. Duplex music-box	356,251	Jan. 18	1363	360	38	276
Junod, Arthur, St. Croix, Switzerland, assignor to E. Cuvet, Hoboken, N. J. Music-box	366,325	July 12	789	213	40	157
Junod, Arthur, St. Croix, Switzerland, assignor to Jacob & Son, New York, N. Y. Music-box	367,409	Aug. 2	75	19, 20	40	465
Jurey, John S., Boonville, Mo. Arm-rest for key-board operators	360,529	Apr. 5	201	49	39	39
Jürgens, Nils C., Clifton, Tex. Egg-preserving compound	360,350	Mar. 29	2913		38	1476
Jury, F. Herman, New York, N. Y. Sash-holder	374,256	Dec. 6	121	31	41	1070
Just, John and P., Sauk City, Wis. Agricultural boiler	367,209	July 26	1991	538 } 539 }	40	401
Just, Peter. (See Just, John and P.)						
Justice, William D., <i>et al.</i> (See Inloes, Justice, and Christopher.)						
Justus, Julius. (See Saltery, Julius J., assignor.)						
Kaatz, Israel, and R. Schulz, Milwaukee, Wis. Insecticide	360,700	Apr. 5	438		39	81
Kaber, H., <i>et al.</i> (See Epping, Henry, assignor.)						
Kaczander, Leopold, assignor to Nathan Manufacturing Company, New York, N. Y. Lubricator	357,931	Feb. 15	1725	450 } 451 }	38	760
Kaczander, Leopold, New York, and R. Ruddy, Mount Vernon, assignors to Nathan Manufacturing Company, New York, N. Y. Stuffing-box for steam-valves	359,869	Mar. 22	2157	544	38	1329
Kaczerowski, Frank, assignor to G. M. Clark & Company, Chicago, Ill. Catch for hinged lantern-tops	371,687	Oct. 18	1348	349	41	282
Kadel, Benjamin F., Rock Falls, Ill. Gas or gasoline engine	374,968	Dec. 20	1170	305	41	1291

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Kaemp, Herman. (See Nagel, Kaemp, and Linnenbrügge.)						
Kaestner, Caesar, Magdeburg, Prussia, Germany. Tanning	367,145	July 26	1912		40	385
Kaeszmann, John P., assignor of one-half to G. Derfus, Milwaukee, Wis. Washing-machine	358,275	Feb. 22	2218	{ 585 586	{ 38	857
Kafer, John C. (See Harris and Kafer.)						
Kaffeman, Frederick, New York, N. Y. Finger-ring	366,668	July 19	1267	337	40	257
Kahler, Charles P., Baltimore, Md. Sewer-inlet	366,846	July 19	1511	404	40	301
Kahler, Conrad, assignor to Bullock Printing Press Company, Chicago, Ill. Rotary printing-machine	373,023	Nov. 8	1118	{ 297 298 299	{ 41	684
Kahler, Conrad, assignor to Bullock Printing Press Company, Chicago, Ill. Sheet-associating mechanism between a press and a folder	373,024	Nov. 8	1123	{ 300 301	{ 41	685
Kahn & Brothers, F. & L. (See Kahn, Lazard, assignor.)						
Kahn, Frank, H. and L. Morris, Memphis, Tenn. Pants	364,115	May 31	2905	754	39	1052
Kahn, Lazard, assignor to F. & L. Kahn & Brothers, Hamilton, Ohio. Cooking-stove	371,892	Oct. 18	1660	429	41	344
Kahnweiler, David, New York, N. Y. Cash-carrier	370,627	Sept. 27	1919	509	40	1417
Kail, John L., assignor of two-thirds to I. B. and A. B. Hodges, Boone, Iowa. Combined fare-box and change-maker	370,261	Sept. 20	1362	{ 365 366 367	{ 40	1306
Kaiser, August J., Washington, D. C. Water-filter	359,259	Mar. 15	1199	313	38	1139
Kaiser, Gustavus A., et al. (See Riepen, H. Henry, assignor.)						
Kaiser, Louis, et al. (See Riepen, H. Henry, assignor.)						
Kaiser, William, Wilkes-Barre, Pa. Valve for water-pipes	369,528	Sept. 6	296	82	40	1050
Kaiss, John E., Baltimore, Md. Hatchway	375,072	Dec. 20	1317	344	41	1317
Kalbfleisch, Frederick W., Brooklyn, N. Y. Railway-shunt	373,294	Nov. 15	1533	405	41	770
Kaldenberg, Frederick J., Tarrytown, N. Y. Sample-exhibitor for tobacco-pipes, &c	373,558	Nov. 22	1952	517	41	860
Kaldenberg, Frederick J., Tarrytown, N. Y. Tobacco-pipe	373,559	Nov. 22	1953	518	41	860
Kaldenberg, Frederick J., Tarrytown, N. Y. Knife-handle	373,560	Nov. 22	1953	518	41	860
Kaley, Frank E., et al. (See Parkhurst, Arthur W., assignor.)						
Kalkhoff, Otto, assignor of one-half to L. W. Loomis, G. W. Ross, and C. E. Underwood, Carrollton, Ill. Combined tube-cutter and ratchet-drill	374,969	Dec. 20	1173	306	41	1291
Kallenbach, Morris, Boody, Ill. Wagon elevator and dump	366,399	July 12	882	237	40	174
Kamak, Max, New York, N. Y. Treating-horn	355,998	Jan. 11	1007		38	204
Kamp, George, Utica, N. Y. Fishing-rod case	357,206	Feb. 8	688	178	38	558
Kampe, August, Moscow, Russia. Piano-action	367,210	July 26	1992	539	40	401
Kampfe Bros. (See Fiske, Henry G., assignor.)						
Kampfe Bros. (See Partridge, Andrew, assignor.)						
Kampfe, Frederick, O., and R., Brooklyn, N. Y. Safety-razor	358,978	Mar. 8	829	209	38	1062
Kampfe, Otto. (See Kampfe, Frederick, O., and R.)						
Kampfe, Richard. (See Kampfe, Frederick, O., and R.)						
Kampfe, Richard, Brooklyn, N. Y. Machinery for grinding cutlery	364,353	June 7	199	55	39	1126
Kandeler, C. F. Theodor, Chicago, Ill. Bridge	356,283	Jan. 18	1410	372	38	285
Kane, Charles, assignor of one-half to P. Maher and J. L. Weeks, Jamestown, N. Y. Tube-expander	370,876	Oct. 4	185	49	41	37
Kane, Charles W. (See Brooks, Heman P., assignor.)						
Kane, John, Philadelphia, Pa. Steam-trap	363,243	May 17	1656	435	39	799
Kane, Thomas. (See French, John A., assignor.)						
Kane, Thomas. (See Moffat, George D., assignor.)						
Kane, Thomas. (See Moffat, George D., assignor.) (Reissue.)						
Kane, Thomas, et al. (See Durant, Linn, and Shupe, assignors.)						
Kane, Thomas, et al. (See Linn, Allen D., assignor.)						
Kane, Thomas, Chicago, Ill. Map-case	358,276	Feb. 22	2221	586	38	858
Kane, William J., et al. (See Van Wie, Byron, assignor.)						
Kanouse, John G. (See Miller and Kanouse.)						
Kansas City Switch and Frog Company. (See Remillon, Eugène J., assignor.)						
Kanters, Abraham M., Holland, Mich. Embankment-protector	360,225	Mar. 29	2737	693	38	1443
Kantner, Washington C. (See Thalheimer and Kantner.)						
Kantner, Washington C., Reading, Pa. Curtain-fixture	357,714	Feb. 15	1421	373	38	704
Kaplan, Hirsch, New York, N. Y. Culinary vessel	368,340	Aug. 16	1453	386	40	744
Kapp, Lee S. (See Fitch, Weisell, and Kapp.)						
Karch, Henry W. (See Shearer and Karch.)						
Karnen, William J., Cleveland, Ohio. Reel for wire rods	370,792	Oct. 4	58	15	41	14
Karpen, Adolph. (See Karpen, Salomon, O., and A.)						
Karpen, Oscar. (See Karpen, Salomon, O., and A.)						
Karpen, Salomon, O., and A., Chicago, Ill. Sofa-bed	370,065	Sept. 20	1088	287	40	1254
Karr, Charles A., Green Elm, Kans. Hydrostatic leveling-instrument	375,450	Dec. 27	1828	478	41	1426
Karthaus, Wilhelm. (See Bockmühl and Karthaus.)						
Karutz, Traugott, Brooklyn, N. Y. Device for drying and perforating cigar-tips	360,302	Mar. 29	2848	725	38	1465
Karwiese, Gustavus A., Louisville, Ky. Steam-generator	365,820	July 5	82	24	40	17
Kasch, Frederick C., Akron, Ohio. Vessel-handle	369,721	Sept. 13	564	154	40	1151
Kaselowsky, Emil, Berlin, Germany. Safety mechanism for torpedo-tubes	361,066	Apr. 12	965	{ 244 245	{ 39	183
Kaselowsky, Emil, Berlin, Germany. Automatic brake apparatus for torpedoes	361,525	Apr. 19	1611	417	39	317
Kaselowsky, Emil, Berlin, Germany. Apparatus for launching torpedoes	361,526	Apr. 19	1612	418	39	317
Kaselowsky, Emil, Berlin, Germany. Valve for motors	374,073	Nov. 29	2684	721	41	1012
Käsemödel, Gustav E., Zwickau, Saxony, Germany. Waterproofing leather soles	360,596	Apr. 5	299		39	57
Kasey, Charles C., New River Depot, Va. Machine for treating tobacco-leaves	373,460	Nov. 22	1790	476	41	831
Kasey, Frank J., et al. (See Kasey, Willem M., assignor.)						
Kasey, Thomas A., Salem, Va. Remedy for hog-cholera	355,999	Jan. 11	1007		38	204
Kasey, Willem M., assignor of two-thirds to J. T. Bennett and F. J. Kasey, Chicago, Ill. Clutch and brake mechanism	365,439	June 28	1808	470	39	1453
Kasschau, Henry C. A., New York, N. Y. Fishing-reel	365,602	June 28	2060	537	39	1503
Kassler, William J., Brooklyn, N. Y. Low-water alarm for steam-boilers	364,940	June 14	1065	278	39	1294
Kasson, William O., Cedar Rapids, Iowa. Door-hanger	369,451	Sept. 6	194	55	40	1069
Kasten, Heinrich W., Hanover, Prussia, Germany. Manufacturing bricks	370,948	Oct. 4	312		41	62
Kates, J. Harmar, Pittsburg, Pa. Propulsion of vessels	363,244	May 17	1657	435	39	799
Kathan, Daniel H., Davisville, Cal. Animal-stock	369,061	Aug. 30	2485	660	40	960
Katsenys, Perry S., Astoria, Oreg. Roller attachment for boats' gunwales	366,007	July 5	356	96	40	67
Katzenstein, Joseph, et al. (See Riepen, H. Henry, assignor.)						
Katzenstein, Leopold. (See Ulrichs, Georg B., assignor.)						
Katzner, Michael, J. Russell, and T. Chase, Marysville, Cal. Road-cart	375,164	Dec. 20	1452	380	41	1344
Kauffeld, Elias, Pittsburg, Pa. Combination-padlock	366,588	July 12	1149	308	40	228
Kauffeld, Elias, Pittsburg, Pa. Combination-padlock	367,048	July 26	1765	{ 476 477	{ 40	358

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Kauffman, Christian C., New Orleans, La. Ramie, jute, &c., stripping machine	362,385	May 3	438	121	39	560
Kauffman, Christian C., New Orleans, La. Apparatus for drying and cleaning ramie and other fibers	362,386	May 3	439	122	39	560
Kauffman, Christian C., and J. Austin, New Orleans, La. Treating ramie and other fibers	362,387	May 3	441	122	39	561
Kauffman, Jacob, Miamisburg, Ohio. Vehicle-seat	364,519	June 7	438	118	39	1170
Kaufhold, Henry A., and J. Genter, Scranton, Pa. Table-leaf support	359,322	Mar. 15	1282	333	38	1154
Kaufholz, John N., Cleveland, Ohio. Slotting attachment for metal-planers	360,530	Apr. 5	202	49	39	39
Kaufman, Frank, Indianola, Iowa. Apparatus for making wire-and-picket fences	361,362	Apr. 19	1401	360	39	276
Kaufman, Peter J. (See Deeds, John B., assignor.)						
Kaufmann, Frieda. (See Kaufmann and Mergott, assignors.)						
Kaufmann, Gustav. (See Myers, William H., assignor.)						
Kaufmann, Joseph, New York, N. Y., and J. E. Mergott, Newark, N. J., assignors, by mesne assignments, to F. Kaufmann, New York, N. Y., and said J. E. Mergott. Safety-latch for doors, &c.	367,146	July 26	1913	516	40	385
Kaufmann, Louis R., Lexington, Mo. Adjusting hair-springs of watches	360,701	Apr. 5	439	112	39	81
Kaul, Karl. (See Kaul, Pius and K.)						
Kaul, Pius and K., Brooklyn, N. Y. Propeller for ships, &c.	368,534	Aug. 16	1736	462	40	798
Kautz, Henry, assignor of one-half to J. K. Greider, Litiz, Pa. Cigar-bundling machine	364,257	June 7	76	22	39	1103
Kavanaugh, Thomas, Jr. (See Schollian and Kavanaugh.)						
Kay, Andrew J., Beebe Plain, Vt. Case for postage-stamps, &c.	358,277	Feb. 22	2222	586	38	858
Kay, Henry E., and C. F. Hill, Fall River, Mass. Sliver-breaker for spinning-machines	355,452	Jan. 4	204	55	38	41
Kay, William V., Belton, Tex. Combined ring and buckle	355,536	Jan. 4	314	83	38	63
Kaye, Edward. (See Kunkel, Adam, assignor.)						
Kaylor, John. (See Chambers and Kaylor.)						
Kayser, Joseph, New York, N. Y. Automatic water-gage valve	365,475	June 28	1861	483	39	1463
Kayser, Julius. (See Bouton, Arthur A., assignor.)						
Kayser, Julius, New York, N. Y. Glove	370,397	Sept. 27	1566	419	40	1353
Kayser, Julius, New York, N. Y. Elastic fabric	375,073	Dec. 20	1318	344	41	1318
Kazanjan, Gabriel M., Beloit, Wis. Folding pocket-stool	361,527	Apr. 19	1613	418	39	318
Kazanjan, Gabriel M., Beloit, Wis. Head-rest	361,528	Apr. 19	1614	418	39	318
Keach, Melbourne L., Waterville, Conn. Vegetable-slicer	368,092	Aug. 9	1095	291	40	667
Kearney, Daniel, assignor of one-half to L. Lesage, Montreal, Quebec, Canada. Stop-valve for water-service pipes	364,018	May 31	2780	720	39	1028
Kearney, William, Belleville, N. Y. Furnace-door	374,190	Dec. 6	37	10	41	1053
Keates, William H., Stoke-upon-Trent, county of Stafford, England. Blind-roller and fittings	360,531	Apr. 5	202	50	39	40
Keating, Alphonso S., Corry, Pa. Telegraph-key	366,400	July 12	883	237	40	175
Keating, Frank, Milwaukee, Wis. Lubricating-pump	364,258	June 7	78	22	39	1103
Keating, Robert M., Springfield, Mass. Shaving apparatus	358,979	Mar. 8	830	210	38	1062
Keating, Robert M., Springfield, Mass. Shaving apparatus	360,159	Mar. 29	2645	668	38	1425
Keating, Robert M., Springfield, Mass. Shaving apparatus	371,945	Oct. 25	1734	448	41	368
Keating, Robert M., assignor of one-half to R. F. Hyde, Springfield, Mass. Home-base for game of base-ball	357,675	Feb. 15	1365	360	38	693
Keator, Mayo S., Cheneyville, La. Spool-holder	362,972	May 17	1292	343	39	727
Keavy, Thomas E., Kent, assignor to Akron Locating Machine Company, Akron, Ohio. Button-locating and shoe-fly-cutting machine	356,716	Jan. 25	2020	531	38	408
Keavy, Thomas E., Kent, assignor to Akron Locating Machine Company, Akron, Ohio. Button-locating and shoe-fly-cutting machine	356,717	Jan. 25	2022	531	38	408
Keavy, Thomas E., Kent, assignor to Akron Locating Machine Company, Akron, Ohio. Button-locating and shoe-fly-cutting machine	356,718	Jan. 25	2023	532	38	409
Keck, Christian. (See Graf and Keck.)						
Keck, Christian, and W. Geiger; said Geiger assignor to J. Reinbold, Cincinnati, Ohio. Cloth-sponging machine	364,593	June 7	550	148	39	1191
Keck, Edward E. (See Devore and Keck.)						
Keegan, Enoch W., Crawfordsville, Ind. Two-wheeled vehicle	360,889	Apr. 12	704	186	39	138
Keegan, John J., et al. (See Feeley, Thomas W., assignor.)						
Keekner, Charles H., Monroe, Wis. Barrel swing or crane	363,648	May 24	2243	580	39	920
Keeler, Henry C., Ogden, Utah Ter. Indicating attachment for weighing-scales	362,748	May 10	971	263	39	661
Keeler, Sanford, et al. (See Beauséjour, Urgel, assignor.)						
Keeler, Thaddeus B., Danbury, Conn. Mast-arm for electric lamps	355,400	Jan. 4	141	38	38	29
Keenan, Andrew J. (See Macnab, James, assignor.)						
Keenan, Charles H., Fort Halleck, Nev. Extractor for headless shells	357,773	Feb. 15	1524	397	38	722
Keenan, George J., Chicago, Ill. Automatic air pump or compressor	363,395	May 24	1861	489	39	846
Keenan, Patrick J., Jersey City, N. J., assignor to himself and J. Bolz, Brooklyn, N. Y. Letter-box	359,870	Mar. 22	2159	545	38	1330
Keene, George C., Cincinnati, Ohio. Cornice-brake	362,749	May 10	972	263	39	661
Keene, George C., Cincinnati, Ohio. Combined cornice-brake and shearing-machine	374,306	Dec. 6	194	51	41	1083
Keene, George C., assignor of two-thirds to L. L. Sagendorph and H. P. Lloyd, Cincinnati, Ohio. Machine for crimping sheet metal	364,259	June 7	79	23	39	1104
Keene, George C., assignor of two-thirds to L. L. Sagendorph and H. P. Lloyd, Cincinnati, Ohio. Automatic feeding mechanism	367,527	Aug. 2	252	72	40	499
Keene, George C., assignor of two-thirds to L. L. Sagendorph and H. P. Lloyd, Cincinnati, Ohio. Attachment for corrugating-machines	372,916	Nov. 8	956	258	41	656
Keene, Joseph, Chicago, Ill. Spring-hinge	361,701	Apr. 26	1878	487	39	375
Keene, Lewis, North McGregor, Iowa. Tire-gage for locomotives	366,401	July 12	884	237	40	175
Keene, Samuel D., Providence, R. I. Enameled spool or bobbin	359,447	Mar. 15	1475	377	38	1190
Keene, Samuel D., Providence, R. I. Carding-machine	367,914	Aug. 9	841	227	40	620
Keener, Jacob. (See Martz and Keener.)						
Keener, Jacob F., Kittanning, Pa. Heat-radiator	357,207	Feb. 8	689	178	38	558
Keeney, John W., Riverside, Cal., assignor, by mesne assignments, to D. B. H. and S. W. Power, Marblehead, Mass. Orange-grader	374,680	Dec. 13	728	191	41	1198
Keeny, William H. (See Swallow and Keeny.)						
Keep, William J., Detroit, Mich. Stove	368,770	Aug. 23	2066	548	40	870
Keep, William J., Detroit, Mich. Base-burning stove	368,951	Aug. 30	2327	619	40	929
Keep, William J., Detroit, Mich., and J. Jamieson, Hamilton, Ontario, Canada. Forming hinge-pin and other holes	366,113	July 5	489	132	40	92
Keep, William J., assignor to Michigan Stove Company, Detroit, Mich. Stove-shelf	374,364	Dec. 6	280	75	41	1099
Keep, William J., assignor to Michigan Stove Company, Detroit, Mich. Ventilating-stove	375,359	Dec. 27	1703	448	41	1401
Kees, Herman, assignor of two-thirds to H. Schweim and F. Baisch, Detroit, Mich. Flue-cleaner	373,461	Nov. 22	1790	476	41	831
Keeson, William P., assignor to Automatic Box Company, (limited.) London, county of Middlesex, England. Apparatus for the automatic sale and delivery of prepaid articles	360,160	Mar. 29	2646	{ 668 669 }	{ 38 38 }	{ 1425 1425 }
Keffer, Frederic, and J. A. McDowell, Columbus, Ohio. Combined push-button and thermostat	359,260	Mar. 15	1200	313	38	1140

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Kegler, William, Bellevue, Iowa. Pump	362,282	May 3	297	82	39	531
Kehoe, Miles, and A. Zilker, New Albany, Ind. Brick-kiln	366,402	July 12	885	238	40	175
Kehr, Cyrus, assignor to R. S. Williams, C. H. Roberts, Chicago, and J. G. Manahan, Sterling, Ill. Machine for turning irregular forms	372,806	Nov. 8	801	{ 214 215 }	{ 41 }	628
Keiffer, William F. (See Pearsall, Charles W., assignor.)						
Keighton, Walter B., Camden, N. J. Printer's gage	355,537	Jan. 4	315	84	38	63
Keil, Henry F., New York, N. Y. Door-securer	363,145	May 17	1531	404	39	774
Keily, John E., assignor to himself and J. J. Murph, Marshallville, Ga. Cotton-gin-rib attachment	370,544	Sept. 27	1788	477	40	1392
Keim, T. Beverley, Reading, Pa. Cigar-cutter	372,418	Nov. 1	200	57	41	508
Keiper, Henry B., Lancaster, Pa. Tire-bender	359,509	Mar. 15	1568	402	38	1207
Keiper, John F., Denver, Colo. Slag trough or spout	370,262	Sept. 20	1367	367	40	1307
Keiser, Edward H., Bryn Mawr, Pa. Pyrometer	373,742	Nov. 22	2208	590	41	912
Keiser, Jacob. (See Bryan, Levi B., assignor.)						
Keiser, John P. (See Egner, Frederic, assignor.)						
Keith, Henry H., St. Louis, Mo. Dental chair	367,300	July 26	2144	577	40	428
Keith, Jeremiah, North Middleborough, Mass. Machine for buttoning boots	360,021	Mar. 29	2407	{ 609 610 }	{ 38 }	1383
Keith, Jeremiah, North Middleborough, Mass. Machine for sewing on buttons	365,440	June 28	1809	{ 470 471 }	{ 39 }	1454
Keith, Jeremiah, North Middleborough, Mass. Lasting shoes	371,588	Oct. 18	1204	314	41	252
Keith, Jeremiah, North Middleborough, Mass. Tool for inserting sole-linings	374,074	Nov. 29	2686	721	41	1012
Keith, Jeremiah, North Middleborough, assignor to C. F. Brown, trustee, Reading, Mass. Sewing-machine	359,573	Mar. 15	1679	429	38	1227
Keith, John D., Keith, Tex. Car-coupling	374,257	Dec. 6	123	32	41	1071
Keith, Thomas, New York, N. Y. Embroidery-machine	369,861	Sept. 13	760	204	40	1187
Keithly, Jane E. (See Parmenter, Orville L., assignor.)						
Kelchner, William W., A. M. O'Daniel, and P. H. Pursel, Ithaca, N. Y.; said Kelchner and O'Daniel assignors to said Pursel Horse hay-rake	370,263	Sept. 20	1368	{ 367 368 }	{ 40 }	1307
Keller, A. Lincoln, Springfield, Mass. Hair-spring adjuster	362,750	May 10	973	264	39	661
Keller, Commodore P., Fall River, assignor of one-half to F. M. Keller, Augusta, Kans. Washing-machine	359,977	Mar. 22	2326	585	38	1361
Keller, Daniel E. (See Williams and Keller.)						
Keller, Edouard, assignor to Keller & Grüning-Dutoit, Bienne, Switzerland. Machine for making watch-cases	366,778	July 19	1418	379	40	284
Keller, Francis M. (See Keller, Commodore P., assignor.)						
Keller, Franklin P., Sabula, Iowa. Lifter and carrier	370,949	Oct. 4	313	77	41	62
Keller, Friedrich, Milwaukee, Wis. Inside blind	373,665	Nov. 22	2103	562	41	891
Keller & Grüning-Dutoit. (See Keller, Edouard, assignor.)						
Keller, Jeremiah, assignor of one-half to E. J. Cable, Sandusky, Ohio. Churn	359,978	Mar. 22	2327	585	38	1361
Keller, Jeremiah, assignor to O. Kromer, Sandusky, Ohio. Tilting device for harvesters	360,226	Mar. 29	2738	693	38	1443
Keller, John F., Shepherdstown, W. Va. Seeding-boot and attachments	372,755	Nov. 8	692	{ 191 192 }	{ 41 }	610
Keller, Joseph, assignor to Keller Piano Company, Bridgeport, Conn. Combined capodastro bar and bridge for piano-fortes	368,673	Aug. 23	1925	511	40	844
Keller, Peter, New York, N. Y. Gas-pressure regulator	371,946	Oct. 25	1735	449	41	368
Keller Piano Company. (See Keller, Joseph, assignor.)						
Kelley, Charles H., Boston, assignor to C. B. Lancaster, Newton, Mass. Lasting-machine	361,363	Apr. 19	1402	{ 360 361 362 }	{ 39 }	276
Kelley, Crossus O., Ewing College, Ill. Wagon-jack	369,722	Sept. 13	565	154	40	1151
Kelley, George B., assignor to Rockford Silver Plate Company, Rockford, Ill. Burnishing-machine	356,842	Feb. 1	139	38	38	448
Kelley, George W., Goshen, Ind. Carpet-sweeper	367,528	Aug. 2	253	72	40	499
Kelley, Harry E. (See Sears and Kelley.)						
Kelley, James C., Stockdale, Kans. Wagon-brake	365,603	June 28	2060	537	39	1503
Kelley, Richard, et al. (See White, William, assignor.)						
Kelley, William S. (See Smith and Kelley.)						
Kelley, William S., Smithville, N. J. Wheel for bicycles	362,514	May 10	627	177	39	599
Kelley, William T., Elberton, Ga. Cotton-chopper	369,249	Aug. 30	2720	724	40	1007
Kellner, Herman H., Danbury, Conn. Hat-wire	365,185	June 21	1426	376	39	1369
Kellogg, Charles H., North Amherst, Mass., assignor of one-half to F. G. Bates, Philadelphia, Pa. Device for transforming motion	357,932	Feb. 15	1727	451	38	761
Kellogg, Frank, Brooklyn, N. Y. Lifting-jack	369,529	Sept. 6	298	82	40	1091
Kellogg, Frank, Brooklyn, N. Y., and J. W. Penrose, assignors to themselves and J. B. Hoffman, Passaic, N. J. Holder for address-cards or labels upon railway-cars	362,842	May 10	1098	297	39	684
Kellogg, Henry, New Haven, Conn. Folding reel for harvesting-machines	366,114	July 5	491	{ 132 133 }	{ 40 }	92
Kellogg, Joseph H., et al. (See Wright, William H., assignor.)						
Kellogg, Lewis G., Chicago, Ill. Wardrobe-bed	360,022	Mar. 29	2408	610	38	1383
Kellogg, Milo G., Hyde Park, Ill. Multiple switch-board	362,217	May 3	218	64, 65	39	515
Kellogg Newspaper Company, A. N. (See Lloyd and Partridge, assignors.)						
Kellogg, Norman S. (See Short and Kellogg.)						
Kellogg, Preston S., Battle Creek, Mich. Composing-stick	375,360	Dec. 27	1705	448	41	1402
Kellogg, Timothy N., et al. (See Kittell, Ernest A., assignor.) (Reissue.)						
Kellogg, Warren T., Lansingburg, N. Y. Sash-cord guide	371,947	Oct. 25	1736	449	41	368
Kells, Charles E., Jr., New Orleans, La. Fire extinguisher and alarm	375,636	Dec. 27	2090	544	41	1475
Kells, Edward, Cleveland, Ohio. Distilling apparatus	374,838	Dec. 13	957	{ 249 250 }	{ 41 }	1242
Kells, Ross, assignor to Paige Car Wheel Company, Cleveland, Ohio. Car-wheel-riveting machine	369,643	Sept. 6	461	128	40	1122
Kelly, Charles O., and J. E. Lee, Baltimore, Md., assignors of one-third to H. S. Shepherd, Martinsburg, W. Va. Car-replacer	369,530	Sept. 6	299	83	40	1091
Kelly, George, Chicago, Ill. Fabric for carpet-lining, packing articles, &c	356,944	Feb. 1	277	76	38	472
Kelly, George, Chicago, Ill. Wire-lathing attachment	357,605	Feb. 15	1259	330	38	675
Kelly, George, Chicago, Ill. Securing wire lathing to fire-proof partitions, &c	358,203	Feb. 22	2124	560	38	839
Kelly, George, Chicago, Ill. Metallic lathing	359,679	Mar. 22	1850	470	38	1275
Kelly, George, Chicago, Ill. Non-conducting lining	366,221	July 12	645	175	40	130
Kelly, George, Chicago, Ill. Non-conducting lining	366,222	July 12	646	175	40	130
Kelly, George, Chicago, Ill. Non-conducting filling or lining	369,796	Sept. 13	660	179	40	1168
Kelly, George, Chicago, Ill. Door-mat	372,225	Oct. 25	2158	553	41	445
Kelly, George A., assignor to Longview Kelly Plow Manufacturing Company, Longview, Tex. Steam-boiler feeder	368,835	Aug. 23	2154	571	40	886
Kelly, George B., Boston, Mass. Mechanical musical instrument	356,690	Jan. 25	1985	{ 521 522 }	{ 38 }	402

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Kelly, George B., Boston, Mass. Motor for mechanical musical instruments.....	357,933	Feb. 15	1728	{ 451 452 }	{ 38 }	761
Kelly, George B., Boston, Mass. Key-holding device for organs.....	361,949	Apr. 26	2236	582	39	440
Kelly, George B., Boston, Mass. Organ.....	363,245	May 17	1659	435	39	799
Kelly, Jacob, Butler, Mo. Combined seeder and harrow.....	371,764	Oct. 18	1458	{ 377 378 }	{ 41 }	305
Kelly, James B., Canton, Miss. Shutter-fastener.....	373,986	Nov. 29	2560	688	41	986
Kelly, James H. (See Follett, Edward P., assignor.)						
Kelly, James H., and C. H. Broad, Rochester, N. Y.; said Broad assignor to said Kelly. } Device for bending tubes.....	369,011	Aug. 30	2409	{ 639 640 }	{ 40 }	945
Kelly, James H., and C. H. Broad, Rochester, N. Y.; said Broad assignor to said Kelly. } Tube.....	369,012	Aug. 30	2410	640	40	946
Kelly, James H., and C. H. Broad, Rochester, N. Y.; said Broad assignor to said Kelly. } Bending tubes and pipes.....	369,013	Aug. 30	2411	640	40	946
Kelly, James H., and E. P. Follett, Rochester, N. Y.; said Follett assignor to said Kelly. } Lantern.....	369,010	Aug. 30	2408	639	40	945
Kelly, James M., assignor of one-half to H. Hollensbe, Kingston, Ind. Stretching and sup- porting device for wire fences.....	361,223	Apr. 12	1214	309	39	230
Kelly, James R. F. (See Edwards and Kelly.)						
Kelly, John, Blake, Utah Ter. Boiler-flue attachment.....	373,237	Nov. 15	1458	384	41	756
Kelly, John C., Austin, Nev. Machine for making toe-calks.....	374,681	Dec. 13	729	191	41	1198
Kelly, John E., Camden, N. J. Speaking-tube attachment.....	369,340	Sept. 6	45	14	40	1043
Kelly, John F., Hoboken, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electrical-current indicator.....	372,851	Nov. 8	863	230	41	638
Kelly, John M., assignor of one-half to H. Morris, Wheeling, W. Va. Letter and bill file..	372,983	Nov. 8	1053	282	41	673
Kelly, John W. (See Kelly and Stienbarger.)						
Kelly, John W., Warrenville, N. J., assignor of one-half to F. W. Seybel, New York, N. Y. } Ribbon.....	365,689	June 28	2184	570	39	1526
Kelly, Josiah R. and J. W., and S. A. Stienbarger, Augusta, Ill. Dental instrument.....	367,108	July 26	1858	502	40	375
Kelly, Michael J., and W. Zimmerman, assignors to Adams & Westlake Manufacturing Company of Michigan, Chicago, Ill. Canopy for railway-car lamps.....	364,019	May 31	2781	720	39	1028
Kelly, Patrick, Poughkeepsie, N. Y. Grip for cables, &c.....	369,531	Sept. 6	300	83	40	1091
Kelly, Patrick J., Elizabethport, N. J., assignor of one-half to T. W. O'Hara, Brooklyn, N. Y. Radiator.....	375,493	Dec. 27	1880	492	41	1436
Kelly, Patrick J., and J. Groves, Brooklyn, N. Y. Trip-tap.....	358,980	Mar. 8	832	210	38	1062
Kelly, Thomas A., Weymouth, Mass. Last.....	363,069	May 17	1424	377	39	753
Kelly, William E., New Brunswick, N. J. Grate.....	367,147	July 26	1914	517	40	385
Kelly, William E., New Brunswick, N. J. Grate-bar.....	371,329	Oct. 11	839	215	41	172
Kelly, William E., New Brunswick, N. J. Grate-bar.....	371,765	Oct. 18	1459	378	41	305
Kelly, William E., New Brunswick, N. J. Steam-generator.....	371,766	Oct. 18	1461	{ 378 379 }	{ 41 }	306
Kelly, William E., New Brunswick, N. J. Grate-bar.....	374,411	Dec. 6	340	89	41	1110
Kelly, William F., Philadelphia, Pa. Game-board.....	370,628	Sept. 27	1920	509	40	1417
Kelly, William H., Woonsocket, R. I. Knitting-machine.....	372,374	Nov. 1	135	41	41	496
Kellyer, David H., et al. (See Powers, Frank H., assignor.)						
Kelsey, Albert, Swampscott, Mass. Sole-edge-setting machine.....	366,669	July 19	1267	338	40	257
Kelsey, Benjamin, Birmingham, county of Warwick, England. Bicycle.....	359,448	Mar. 15	1476	{ 377 378 }	{ 38 }	1190
Kelsey, George W., assignor to M. A. Kelsey, Chicago, Ill. Fly-net for horses.....	364,020	May 31	2782	721	39	1028
Kelsey, George W., assignor to M. A. Kelsey, Chicago, Ill. Horse-netting.....	373,371	Nov. 15	1660	441	41	794
Kelsey, Horatio G., and H. A. Hartshorn, assignors to American Buckle and Cartridge Company, West Haven, Conn. Mechanism for forming buckle-tongues.....	372,152	Oct. 25	2051	525	41	424
Kelsey, Mary A. (See Kelsey, George W., assignor.)						
Kelsey, Oliver A., assignor to W. S. Leonard, Battle Creek, Mich. Sheathing-lath ma- chine.....	371,073	Oct. 25	1936	499	41	403
Kelton, Daniel S., Brooklyn, N. Y. Self-feeder dust-preventing coal-receiver.....	362,283	May 3	298	82	39	531
Kelton, John C., Washington, D. C. Rear sight for fire-arms.....	359,680	Mar. 22	1851	470	38	1275
Kemp, Charles E. (See Kemp, Clarence M. and C. E.)						
Kemp, Clarence M. and C. E., Baltimore, Md. Fluid-ejector.....	356,647	Jan. 25	1935	507	38	392
Kemp, Clarence M. and C. E., Baltimore, Md. Fluid-ejector.....	372,024	Oct. 25	1843	{ 477 478 }	{ 41 }	388
Kemp, Horace L., Gloucester City, N. J. Machine for barring button-holes.....	372,226	Oct. 25	2159	554	41	445
Kemp, J. Ritner, Columbus, Ohio. Brick-drying kiln and car to be used therein.....	374,540	Dec. 6	536	140	41	1149
Kemper, Bernhart, Muscatine, Iowa. Machine for making fruit-boxes.....	356,478	Jan. 25	1696	443	38	346
Kemper, Ernest G., Burlington, Iowa. Stone-saw.....	356,136	Jan. 18	1213	322	38	248
Kempf, Theodor, Berlin, assignor to F. Von Heyden, Nachfolger, Radebeul, near Dresden, Germany. Manufacture of salicylic acid and substitutes thereof.....	355,875	Jan. 11	819	.....	38	166
Kempshall, Eleazer. (See Richards and Kempshall.)						
Kempshall, Eleazer, New Britain, Conn. Heel-protector.....	372,807	Nov. 8	803	215	41	628
Kempshall, Eleazer, assignor, by mesne assignments, to Richards Fastener Company, New Britain, Conn. Paper-fastener.....	356,202	Jan. 18	1297	343	38	263
Kempster, Daniel E., Boston, Mass. Cash-carrying apparatus.....	361,295	Apr. 19	1306	335	39	259
Kempster, Daniel E., Boston, Mass. Cash-carrier.....	361,702	Apr. 26	1879	487	39	375
Kempster, Daniel E., Boston, Mass. Color-printing machine.....	361,703	Apr. 26	1883	{ 487 488 }	{ 39 }	375
Kempster, Daniel E., Boston, Mass., assignor to Kempster Rowing-Tricycle Company, Kit- tery, Me. Velocipede.....	369,860	Sept. 13	757	203	40	1187
Kempster Rowing-Tricycle Company. (See Kempster, Daniel E., assignor.)						
Kempton, Clifford S., New York, N. Y. Shutter-worker.....	361,296	Apr. 19	1310	336	39	260
Kendall, Charles B. (See Angell, Edwin E., assignor.)						
Kendall, Charles B. (See Angell and Kendall.)						
Kendall, Clifford F., Stockton, Cal. Mill-stock feeder.....	374,682	Dec. 13	730	191	41	1199
Kendall, Edward D., Brooklyn, N. Y. Process of and apparatus for refining hydrocarbon..	359,357	Mar. 15	1338	346	38	1164
Kendall, Elton P., assignor to C. E. Thwing and P. J. Murphy, Barre, Vt. Try-square and bevel.....	360,161	Mar. 29	2649	669	38	1426
Kendall, Henry, Xenia, Ohio. Corn-planter.....	355,613	Jan. 4	413	113	38	82
Kendall, James H., Detroit, Mich. Piston-packing.....	360,963	Apr. 12	817	210	39	157
Kendall, John A., Maysville, Mo. Lamp-filling can.....	367,529	Aug. 2	255	72	40	500
Kendall, Louis C. (See Smith and Kendall.)						
Kendall, William H., Brooklyn, N. Y. Apparatus for drying hats and other articles.....	358,674	Mar. 1	381	91	38	974
Kendig, Elias B., and D. N. Landis, Jr., Witmer, Pa. Force-pump.....	363,897	May 31	2593	674	39	992
Kendrick, John, Birmingham, Conn. Elastic gore or section for garments.....	359,395	Mar. 15	1402	359	38	1176
Keneson, George W., et al. (See Goss, Edward, assignor.)						
Kengle, William F., Rockport, Pa. Baling-press.....	360,445	Apr. 5	72	19	39	15
Keniston, Frank P., St. Johnsbury, Vt. Thill-coupling.....	358,780	Mar. 1	526	128	38	1001

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Kenna, Charles P., Chicago, Ill. Convertible chair	365,523	June 28	1939	504	39	1480
Kenna, Joseph W., Chicago, Ill., assignor to J. W. Vail, trustee, Port Washington, Wis. Tilting-chair iron	374,970	Dec. 20	1174	306	41	1292
Kenna, Joseph W., Chicago, Ill., assignor to J. W. Vail, trustee, Port Washington, Wis. Tilting-chair	374,971	Dec. 20	1176	{ 306 307 }	{ 41 41 }	1292
Kennedy, Burr A. (See Steward and Kennedy.)						
Kennedy, Burr A., and J. F. Steward, Chicago, Ill. Bundle-carrier	358,934	Mar. 8	771	192	38	1051
Kennedy, Charles A. (See Kennedy, George A., assignor.)						
Kennedy, Daniel M., Petrolia, Ontario, Canada. Desulphurizing and purifying petroleum-oils	370,950	Oct. 4	314	-----	41	62
Kennedy, De Lancy, New York, N. Y. Projectile	371,461	Oct. 11	1025	267	41	208
Kennedy, Edward S. T., New York, N. Y. Boiler-tube	368,836	Aug. 23	2155	571	40	887
Kennedy, Edward S. T., New York, N. Y. Radial-tube steam-boiler	375,324	Dec. 20	1656	{ 434 435 }	{ 41 41 }	1384
Kennedy, Frank M., assignor to E. Bell, Jr., Youngstown, Ohio., and H. J. Kennedy, Hadley, Pa. Machine for threading bolts and nuts	372,541	Nov. 1	378	{ 102 103 }	{ 41 41 }	542
Kennedy, George. (See Chapman and Kennedy.)						
Kennedy, George and R., New Westminster, British Columbia, Canada. Automatic perforator for printing-presses	364,021	May 31	2783	721	39	1029
Kennedy, George A., assignor to C. A. Kennedy, Coaticook, Quebec, Canada. Tubular lantern	365,476	June 28	1861	483	39	1463
Kennedy, George G., J. A. Hobart, Vineland, N. J., and H. A. Kimball, Philadelphia, Pa. Water-filter	372,025	Oct. 25	1845	478	41	388
Kennedy, George W. (See Calef, Joseph W., assignor.)						
Kennedy, Henry J., et al. (See Kennedy, Frank M., assignor.)						
Kennedy, Henry R., Ithaca, N. Y. Machine for drawing metals	369,290	Aug. 30	2781	741	40	1019
Kennedy, Herman N. (See Steward and Kennedy.)						
Kennedy, Hugh, Sharpsburg, Pa. Gas-connection for hot-blast stoves or fire-boxes	369,341	Sept. 6	48	14	40	1043
Kennedy, Hugh, Sharpsburg, Pa. Stack-connection for hot-blast stoves	369,342	Sept. 6	49	14	40	1044
Kennedy, Jackson J., Cleveland, Tenn. Car-coupling	356,320	Jan. 18	1461	385	38	295
Kennedy, James, Franklin, Ky. Check-row attachment for corn-planters	362,515	May 10	628	177	39	600
Kennedy, James A., Carthage, N. Y. Colter	368,592	Aug. 23	1811	482	40	822
Kennedy, James H., Eola, La. Boot-jack	370,197	Sept. 20	1283	342	40	1291
Kennedy, John H., assignor to J. P. Farnan, Cleveland, Ohio. Stop-cock box for service-pipes	363,649	May 24	2244	581	39	920
Kennedy, John P., New York, N. Y. Method of and machine for closing the ends of tubes	368,837	Aug. 23	2157	572	40	887
Kennedy, John Q. A. (See Shires and Kennedy.)						
Kennedy, Martin, Hegewisch, Ill. Bending-machine	360,098	Mar. 29	2538	{ 646 647 }	{ 38 38 }	1407
Kennedy, Martin, Hegewisch, Ill. Die for shaping arch-bars	360,099	Mar. 29	2540	647	38	1407
Kennedy, Martin, Hegewisch, Ill., assignor, by mesne assignments, to United States Rolling Stock Company. Die for shaping nut-blanks	370,066	Sept. 20	1089	288	40	1255
Kennedy, Nelson E. (See Bradford and Kennedy.)						
Kennedy, Robert. (See Kennedy, George and R.)						
Kennedy, Samuel V., and C. A. Anderson, assignors to Minneapolis Harvester Works, Minneapolis, Minn. Bundle-carrier for harvesters	366,403	July 12	886	238	40	175
Kennedy, Walter, and J. Scott, Pittsburg, Pa. Blast-furnace top	365,077	June 21	1271	335	39	1341
Kennedy, Wellington K., Pleasant Mount, Pa. Watch-case	372,540	Nov. 1	378	102	41	542
Kennedy, William, New London, Pa. Overshoe-fastener	364,022	May 31	2784	721	39	1029
Kennedy, William G., and H. O. Gadberry, Cawker City, Kans. Harvester	362,093	May 3	57	17	39	484
Kennen, Henry, Norfolk, N. Y. Milk-cooler	359,261	Mar. 15	1201	313	38	1140
Kennett, Berryman S., Fredonia, Kans. Stalk-cutter	371,462	Oct. 11	1026	267	41	209
Kenney, Charles A. (See Barton, Charles C., assignor.)						
Kenney & Co. (See Smith, William, assignor.)						
Kenney, Thomas M., Cambridge, Mass., assignor, by mesne assignments, to American Store Service Company, of New York. Cash-carrying apparatus	365,751	June 28	2280	592	39	1543
Kenoza Seam Pressing Machine Company. (See Busfield and Fellows, assignors.)						
Kenoza Seam Pressing Machine Company. (See Fellows and Busfield, assignors.)						
Kent, Archibald. (See Kent, James W. and A.)						
Kent, Benjamin F. (See Foster and Kent.)						
Kent, Enoch W., Crown Point, N. Y. Marble or granite saw	372,679	Nov. 8	585	159	41	590
Kent, Ernest N. (See Besson and Kent.)						
Kent, Frederick G., Wadsworth, Ill. Stock-car	368,593	Aug. 23	1812	482	40	822
Kent, James M., Montpelier, Vt. Writing-book cover	369,532	Sept. 6	301	83	40	1091
Kent, James W. and A., Brooklyn, N. Y. Paint-press	367,816	Aug. 9	702	190	40	592
Kent, James W., and R. Orr, Brooklyn, N. Y. Electrical apparatus for voiding water-pipes	368,674	Aug. 23	1926	512	40	845
Kent, Joseph, assignor, by mesne assignments, to himself and W. Lacy, Windsor, Vt. Hub-attaching device	359,262	Mar. 15	1202	314	38	1140
Kent, Milton A. (See Porter, Stephen, assignor.)						
Kent, Virgil, Seekonk, Mass. Tennis-racket	371,846	Oct. 18	1585	409	41	330
Kent, Walter G., 199 High Holborn, county of Middlesex, England. Rotary meter	361,529	Apr. 19	1616	418	39	318
Kent, William. (See Springer and Kent.)						
Kent, William, Jersey City, N. J. Machine for bending and flanging sheet metal	357,606	Feb. 15	1260	331	38	675
Kent, William, Jersey City, N. J. Testing the tensile strength of chains, &c.	357,715	Feb. 15	1423	373	38	704
Kent, William, Jersey City, N. J. Machine for bending and flanging metal plates	357,716	Feb. 15	1423	{ 373 374 }	{ 38 38 }	704
Kent, William, Jersey City, N. J. Boiler-cleaner	367,915	Aug. 9	843	228	40	621
Kent, William, Jersey City, N. J. Means for and method of making corrugated headers for water-tube boilers	373,743	Nov. 22	2209	591	41	912
Kent, William, Jersey City, N. J., assignor to Torsion Balance and Scale Company, Cincinnati, Ohio. Balance	363,468	May 24	1975	{ 515 516 }	{ 39 39 }	868
Kenton, Levi C., Baltimore, Md. Shoe-shank burnisher	374,972	Dec. 20	1178	307	41	1292
Kenton, Levi C., assignor of one-half to J. Clement, Baltimore, Md. Shoe-sole-edge setter	375,074	Dec. 20	1320	{ 344 345 }	{ 41 41 }	1318
Kenton, Llewellyn G., Monticello, Ind. Monument	366,326	July 12	791	213	40	157
Kenworthy, James T., D. Sexton, and A. Thompson, Colton, Cal. Steam-engine	359,160	Mar. 8	1061	276	38	1107
Kenworthy, John T., assignor to J. L. Bogert, Flushing, N. Y. Device for supporting wheels for the insertion of arbors	369,947	Sept. 13	901	240	40	1213
Kenyon, Daniel C., Wyoming, R. I. Edge-trimming lawn-mower	362,516	May 10	629	177	39	600
Kenyon, Frank E., Ithaca, N. Y. Mechanical musical instrument	358,157	Feb. 22	2055	541	38	825
Kenyon, James, Bury, county of Lancaster, England. Cotton and woolen paper-makers' drying-felt	355,766	Jan. 11	649	169	38	136

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Kenyon, James C., <i>et al.</i> (See Fiske, George M., assignor.)						
Kenyon, James, J. Barnes, and R. W. Kenyon, Accrington, county of Lancaster, England. Vise	365,186	June 21	1427	376	39	1370
Kenyon, Richard W. (See Kenyon, Barnes, and Kenyon.)						
Kenyon, Richard W., and B. Baron, Accrington, county of Lancaster, England. Thread-holder for spools	358,675	Mar. 1	382	92	38	975
Kenyon, Winfield S., Woodstock, Conn. Yarn-dresser	357,208	Feb. 8	690	178	38	558
Kenyon, Winfield S., Woodstock Valley, Conn. Card-grinder	359,928	Mar. 22	2248	565	38	1346
Keohane, Daniel K., Deadwood, Dak. Ter. Steamer	367,639	Aug. 2	417	117	40	531
Keppler, William, Juda, Wis. Shoe-fastening	362,094	May 3	59	18	39	484
Keppler, William, Juda, Wis. Button-setting tool	362,284	May 3	299	83	39	532
Kerner, Marion H., New York, N. Y., and D. J. Brown, Norwich, Conn., assignors to said Kerner. Combined eraser, polisher, and stamp	363,469	May 24	1978	516	39	868
Kernodle, James A., assignor of one-half to J. W. Geringer, Greensborough, N. C. Tobacco-curing flue	365,008	June 14	1161	304	39	1311
Kerns, Emanuel, Sibley, Ill. Siding-jack	364,260	June 7	81	23	39	1104
Kerr, Samuel H., Piney, Pa. Washing-machine	356,648	Jan. 25	1937	507	38	392
Kerr, Thomas, New York, N. Y. Cable-grip for cars. (Reissue)	10,821	Mar. 22	2342	589	38	1364
Kerr, William H., Ilion, N. Y. Machine for sewing bags	374,541	Dec. 6	537	{ 140 141 142 }	{ 41 39 40 }	1150
Kerrison, Charles, Jr., Charleston, S. C. Barbed nail or spike	362,843	May 10	1099	297	39	684
Kersey, Matthew F., Alexandria, Va. Valve for feed-water pipes for steam-boilers	369,062	Aug. 30	2486	660	40	960
Kersey, Robert H., Lebanon, Ind. Ditching-machine	369,948	Sept. 13	902	240	40	1213
Kershaw, Stewart. (See Howell, Charles, assignor.)						
Kesling, Granville and L., Onward, Ind. Adjustable and reversible fence-machine	358,121	Feb. 22	2004	528	38	816
Kesling, Luther. (See Kesling, Granville and L.)						
Kesling, Perry, Walton, Ind. Tension device for wire-fence machines	358,458	Mar. 1	51	13	38	913
Kesling, Perry, Walton, Ind. Fence-loom	372,419	Nov. 1	201	57	41	508
Kessler & Brother, J. E., <i>et al.</i> (See McCullough, David W., assignor.)						
Kessler, Calvin, Pendleton, Oreg. Harrow attachment	370,264	Sept. 20	1370	368	40	1308
Kessler, Conrad F., Reading, Pa. Sweat-band for hats or caps and making the same	358,859	Mar. 8	664	166	38	1031
Kessler, Heinrich, Oberlahnstein, Prussia, Germany. Current-motor	365,133	June 21	1358	{ 359 360 }	{ 39 38 }	1356
Kessler, John E., Middleport, Ohio. Gaging device for mortising-machines	360,303	Mar. 29	2849	725	38	1465
Kessler, Loui, assignor of one-half to F. Harbach, Des Moines, Iowa. Hydropneumatic engine	368,952	Aug. 30	2328	619	40	929
Ketch, Clark, Wharton, Ohio. Straw-carrier	358,042	Feb. 22	1879	497	38	795
Ketcham, Alonzo R. (See Ketcham, Samuel J., assignor.)						
Ketcham, John G., assignor of one-half to A. R. Hamilton, Ottawa, Kans. Pavement	364,594	June 7	551	.....	39	1192
Ketcham, Samuel J., assignor to A. R. Ketcham, Buffalo, N. Y. Service-box for water or gas pipes	372,680	Nov. 8	586	159	41	591
Ketchum, Benjamin F. (See Russell, William L., assignor.)						
Ketchum, Landon. (See Goodyear and Ketchum.)						
Ketchum, Oliver W., Toronto, Ontario, Canada. Machine for clinching metallic button-fasteners	365,604	June 28	2062	537	39	1504
Ketchum, Oliver W., Toronto, Ontario, Canada. Process of and machine for making buttons	367,410	Aug. 2	76	20	40	465
Ketchum, Volney S., assignor of one-half to L. A. Brown, St. Louis, Mo. Feed-bag	368,535	Aug. 16	1737	462	40	798
Ketchum, Volney S., assignor of one-half to L. A. Brown, St. Louis, Mo. Fastener for doors, cases, &c.	369,185	Aug. 30	2643	702	40	992
Ketchum, William G., assignor of one-half to B. B. Crain and H. D. Williamson, Augusta, Ill. Pulverizing attachment for plows	357,607	Feb. 15	1261	332	38	675
Ketterer, William. (See Hoppel, Louise B., assignor.)						
Keuffel, William, Hoboken, N. J. Tape-measure case	363,070	May 17	1424	377	39	753
Key, William. (See Blinkhorn and Key.)						
Keyes, Frank E., Newport, N. H. Cover-fastening	355,538	Jan. 4	316	84	38	64
Keyes, Frank E., assignor to Amoskeag Indurated Fibre Ware Company, Peterborough, N. H. Treating pulp or fibrous material and the resulting material	369,862	Sept. 13	764	.....	40	1188
Keyes, John W., Chicago, Ill. Adjustable fire-back	369,533	Sept. 6	301	83	40	1092
Keylor, Henry S. (See Caghey, John B., assignor.)						
Keys, F. H., <i>et al.</i> (See Porter, Benjamin S. and C. W., assignors.)						
Keys, Frank H., <i>et al.</i> (See Porter, Benjamin S., assignor.)						
Keys, N. A., <i>et al.</i> (See Porter, Benjamin S. and C. W., assignors.)						
Keys, Nathan A., <i>et al.</i> (See Porter, Benjamin S., assignor.)						
Keyser, Charles A., Aiken, S. C. Carriage-top	357,485	Feb. 8	1066	281	38	629
Keystone Chemical Company. (See Williams, William J., assignor.)						
Keystone Manufacturing Company. (See Sturgeon, Carson J., assignor.)						
Keystone Watch Case Company. (See Chappatte, Edward C., assignor.)						
Kibbe, Thomas N. (See Dwight, Justus L., assignor.)						
Kibler, Charles, Jr., Newark, Ohio. Stove	357,961	Feb. 15	1767	463	38	768
Kibler, Charles, Jr., Newark, Ohio. Stove	367,640	Aug. 2	419	117	40	531
Kidd, John S., Des Moines, Iowa. Wagon-dump and elevator	358,457	Mar. 1	48	13	38	912
Kidd, John S., Des Moines, Iowa. Wagon-dump and elevator	361,297	Apr. 19	1311	{ 336 337 }	{ 39 39 }	260
Kidd, Lewis C., Richmond, assignor of one-half to J. P. Robinson, Manchester, Va. Auto-matic lamp-extinguisher	363,830	May 31	2505	{ 650 651 }	{ 39 39 }	975
Kidd, Lewis C., Richmond, assignor of one-half to J. P. Robinson, Manchester, Va. Fire-extinguisher	365,922	July 5	237	63	40	46
Kidder, Richard E., and R. W. Long, Worcester, Mass.; said Long assignor to said Kidder. Drawing-table	363,339	May 17	1789	469	39	824
Kidder, Wellington P., Boston, Mass., and J. R. Carter, Niagara Falls, N. Y. Type-writing machine	372,542	Nov. 1	381	103	41	543
Kiefer, Christopher A., and F. C. Eby; said Eby assignor to F. Strohmer, Detroit, Mich. Holdback for vehicles	357,086	Feb. 1	484	129	38	512
Kiel, Cornelius. (See Spengler, C. George, assignor.)						
Kieley, Timothy J., New York, N. Y. Gas-regulator for boilers	359,079	Mar. 8	958	245	38	1086
Kieley, Timothy J., New York, N. Y. Pressure-regulator and cut-off	360,890	Apr. 12	705	{ 186 187 }	{ 39 39 }	138
Kieley, Timothy J., New York, N. Y. Gas-regulator and cut-off	361,765	Apr. 26	1966	513	39	390
Kieley, Timothy J., New York, N. Y. Gas-regulator and cut-off	362,963	May 17	1293	343	39	727
Kieley, Timothy J., New York, N. Y. Back-pressure valve	365,477	June 28	1862	483	39	1464
Kienardt, John A., assignor to G. H. Geiger, Dayton, Ohio. Slate-eraser	371,589	Oct. 18	1205	314	41	253
Kiernan, P. B. (See Gaillac, Eugene G., assignor.)						
Kieswetter, Joseph F., Toledo, Ohio. Carpet-cleaner	366,961	July 19	1653	444	40	329

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Kiffe, Harry. (See Welker and Kiffe.)						
Kilborn, Alden D., Oakland, Cal. Lubricator.	369,250	Aug. 30	2722	724	40	1008
Kilbourn, Kate R., Washington, D. C. Generating heat.	361,164	Apr. 12	1123	284	39	213
Kilbourne & Jacobs Manufacturing Company. (See Hubbard, Fred W., assignor.)						
Kilburn, James F. (See Flynn and Kilburn.)						
Kile, John M., <i>et al.</i> (See Anderson, Henry, assignor.)						
Kilgore, Ira B., San Francisco, Cal. Sulky-cultivator.	362,285	May 3	300	83	39	532
Killingsworth, Thomas H., Waco, Tex. Stalk-cutting machine.	365,821	July 5	84	24	40	18
Kilmer, Denis M., Martinsburg, W. Va. Broom-rack.	374,794	Dec. 13	892	234	41	1230
Kilmer, Irving A., Schenectady, N. Y. Fence-post anchor.	367,411	Aug. 2	78	21	40	465
Kilmer, Irving A., assignor to Kilmer Manufacturing Co., Schenectady, N. Y. Bale-tie.	372,375	Nov. 1	138	41	41	496
Kilmer Manufacturing Co. (See Kilmer, Irving A., assignor.)						
Kilmer, Melvin D., assignor to Kilmer Manufacturing Co., Schenectady, N. Y. Bale-tie.	372,376	Nov. 1	138	41	41	496
Kilmer, S. Andral, Binghamton, N. Y. Spring.	361,298	Apr. 19	1313	337	39	261
Kilmer, S. Andral, Binghamton, N. Y. Railway-joint.	363,398	May 24	1866	490	39	847
Kilmer, S. Andral, Binghamton, N. Y. Rug-holder.	363,399	May 24	1867	490	39	847
Kilmer, S. Andral, Binghamton, N. Y. Railway-joint.	371,688	Oct. 18	1349	349	41	282
Kilpatrick, Calvin E., Tallmanville, Pa. Road-scraper.	365,923	July 5	238	63	40	47
Kilsheimer, Moses. (See Stonehill and Kilsheimer.)						
Kimball, Alonzo S., and G. L. Brownell, Worcester, Mass. Electric spinning or twisting machine.	371,199	Oct. 11	662	169	41	139
Kimball, Charles W., Chicago, Ill. Hose-reel.	372,473	Nov. 1	277	77	41	523
Kimball Company, W. W. (See Harcourt, Stillwell, assignor.)						
Kimball Company, W. W. (See Hessler, Jacob R., assignor.)						
Kimball, F. W. (See Rathbun, Frank A., assignor.)						
Kimball, Francis W. (See Shailer and Kimball.)						
Kimball, Francis W., and T. Appleton, Milwaukee, Wis. Track-bolting machine.	370,147	Sept. 20	1211	{ 321 322 }	{ 40 }	1277
Kimball, Freddie C., assignor of one-half to A. N. and E. H. Hovey, Jackson, Mich. Coach-pad.	360,351	Mar. 29	2913	742	38	1476
Kimball, Gustavus F., Topeka, Kans. Mold for casting printers' leads and small furniture.	359,021	Mar. 8	889	226	38	1072
Kimball, Henry. (See Glass and Kimball.)						
Kimball, Hervey Z., assignor of one-half to L. F. Tice, Brooklyn, N. Y. Number or letter plate.	360,388	Mar. 29	2973	733	38	1486
Kimball, Hiram A. (See Kennedy, Hobart, and Kimball.)						
Kimball, J. Albert, New York, N. Y. Dental grinding-disk and holder.	367,211	July 26	1993	540	40	401
Kimball, John J., Naperville, Ill. Fence-post.	357,393	Feb. 8	936	246	38	605
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Tele-scopie skimmer.	359,510	Mar. 15	1569	402	38	1207
Kimball, Salina L. (See Wilson, Samuel J., assignor.)						
Kimball, Willis G. C., Concord, N. H. Photograph-burnisher.	374,412	Dec. 6	342	89	41	1111
Kimber, Frank D., assignor of one-half to I. Johnston, Corning, N. Y. Lamp-burner.	367,817	Aug. 9	703	190	40	592
Kimberlin Manufacturing Company. (See Davis, Calvin R., assignor.)						
Kimble, Fred. (See Smith, Elias, assignor.)						
Kime, Daniel H., Kendallville, Ind. Burglar-alarm.	375,637	Dec. 27	2092	545	41	1475
Kimmel, Philip, Altoona, Pa. Machine for bending sheet metal.	366,486	July 12	985	{ 267 268 }	{ 40 }	196
Kimmel, William A. (See Landvoigt and Fenwick, assignors.)						
Kimpton, Charles A. (See Blount and Kimpton.)						
Kimpton, Charles A., Boston, and J. E. Crisp, Somerville, Mass.; said Crisp assignor of four-tenths to said Kimpton. Ticket punch and register.	374,973	Dec. 20	1179	{ 307 308 }	{ 41 }	1293
Kincaid, Samuel W., Delphos, Kans. Anodyne.	371,590	Oct. 18	1205	.....	41	253
Kinder, Julius, Brooklyn, assignor to Solid Link Chain Manufacturing Company, New York, N. Y. Driving-belt.	355,453	Jan. 4	205	55	38	41
Kinder, Julius, Brooklyn, assignor to Solid Link Chain Manufacturing Company, New York, N. Y. Construction of chains.	355,454	Jan. 4	206	55	38	42
Kinder, Julius, Brooklyn, assignor to Solid Link Chain Manufacturing Company, New York, N. Y. Making chain-links.	355,455	Jan. 4	208	55	38	42
Kindlen, John H. (See Clark, Wallace, and Kindlen.)						
Kineman, William, <i>et al.</i> (See Snell and Van Slyke, assignors.)						
King, Albert H., Brooklyn, N. Y. Combined blanket and overcoat.	364,762	June 14	795	210	39	1244
King, Basil R., Washington, Pa. Book-support.	363,396	May 24	1863	490	39	847
King, Benjamin C., and G. H. Boon, Thorp Spring, Tex. Grain measurer and tally.	366,962	July 19	1654	444	40	329
King, Charles A., Meriden, Conn. Breech-loading fire-arm.	356,321	Jan. 18	1462	385	38	295
King, Charles A., Meriden, Conn. Breech-loading fire-arm.	368,401	Aug. 16	1530	409	40	760
King, Charles R. (See White and King.)						
King, Charles W., Rutherford, N. J., assignor to Common Sense Flexible Insole Company, Portland, Me. Inner sole for boots or shoes.	358,860	Mar. 8	664	166	38	1031
King, Corydon C., assignor of two-thirds to J. W. Nimmo, Pittston, Pa. Storm-apron for vehicles.	362,012	Apr. 26	2341	610	39	457
King, Daniel R., York, and W. A. King, Columbia, Pa. Bretzel and cracker sizing and salting machine.	358,358	Feb. 22	2328	618	38	878
King, David F. (See Baxter, Daniel N., assignor.)						
King, Duncan, Jr., Detroit, Mich. Hinge.	369,113	Aug. 30	2558	680	40	973
King, Frank, Fulham, county of Middlesex, England. Electrical distribution and charge of secondary batteries.	371,893	Oct. 18	1661	429	41	344
King, Frederick W., Hamilton, and J. Maw, Dundas, Ontario, Canada. Sand-blast machine.	365,261	June 21	1538	401	39	1390
King, George H., New York, N. Y. Spring-bed.	371,591	Oct. 18	1206	315	41	253
King, George H., assignor of two-thirds to W. H. H. Tainter, Kansas City, and M. Jordan, Hermann, Mo. Window.	363,397	May 24	1864	490	39	847
King, George R., New Brighton, N. Y. Compound to restrain the setting of plaster.	368,594	Aug. 23	1813	.....	40	822
King, George W. (See Huber, Barnhart, and King.)						
King, George W., Cleveland, Ohio. Hand-press.	369,990	Sept. 13	967	256	40	1225
King, Gideon, Eminence, Ky. Road or farm gate.	372,474	Nov. 1	279	77	41	524
King, Homer A., Springfield, Mass., assignor to King Wheel Company, New York, N. Y. Velocipede.	358,204	Feb. 22	2125	561	38	840
King, Homer A., Springfield, Mass., assignor to King Wheel Company, New York, N. Y. Velocipede.	360,162	Mar. 29	2650	669	38	1426
King, Homer A., Springfield, Mass., assignor to King Wheel Company, New York, N. Y. Anti-friction bearing.	373,807	Nov. 22	2305	617	41	929
King, Jacob C., York, Pa. Automatic grain-meter.	361,878	Apr. 26	2144	556	39	422
King, James J., Jasper, and W. J. Worley, Dahlonega, Ga. Car-coupling.	355,401	Jan. 4	143	38	38	30
King, James L., Springfield, Ill. Suture-needle and case.	373,372	Nov. 15	1661	441	41	795
King, James M., assignor to himself and J. C. Helfrich, Hebron, Nebr. Pruning-hook.	370,704	Sept. 27	2032	541	40	1438

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King, Job, and T. J. Magner, Buffalo, N. Y. Vehicle-spring.....	365,009	June 14	1162	305	39	1311
King, John E., <i>et al.</i> (See Pungs, William A., assignor.)						
King, John H. (See Brooke, Homer, assignor.)						
King, John T., assignor to Walker & Co., Madison, Wis. Printing-machine	361,423	Apr. 19	1482	{ 382 383 }	{ 39	291
King, Leach, assignor of one-half to H. G. Lefort, Newark, N. J. Fastening for door-mats.	358,676	Mar. 1	383	92	38	975
King, Obed H., Houghton, Iowa. Device for stacking hay	365,262	June 21	1540	402	39	1390
King, Orson, and A. Morgan, Randolph, Kans. Listed-corn cultivator	367,530	Aug. 2	256	73	40	500
King, Oscar. (See Felt and King.)						
King, Phineas F., assignor of one-half to A. E. Campbell, Kansas City, Mo. Nail-extractor.	368,536	Aug. 16	1738	462	40	798
King, Ralph B., New York, N. Y. Light-refractor.....	371,330	Oct. 11	840	215	41	172
King, Robert E., Warrenton, N. C. Fruit-jar.....	359,449	Mar. 15	1477	378	38	1191
King, Theodore E., <i>et al.</i> (See Dalton, Dan F., assignor.)						
King, Theodore E., <i>et al.</i> (See Pullman, Herbert S., assignor.)						
King, Theodore E., Westport, assignor of one-half to J. C. Hammond, Rockville, Conn. Shoe-clasp	362,013	Apr. 26	2341	610	39	457
King, Theodore E., Westport, assignor of one-half to J. C. Hammond, Jr., Rockville, Conn. Shoe-clasp	362,014	Apr. 26	2343	610	39	457
King, Theophilus, Jr., <i>et al.</i> (See Thayer, James M., assignor.)						
King, W. Haskell, Guilford, Conn. Sash-fastener.....	368,595	Aug. 23	1814	483	40	822
King, Warden. (See Spence, Archibald, assignor.)						
King Wheel Company. (See King, Homer A., assignor.)						
King, William A. (See King, Daniel R. and W. A.)						
King, William H., Little Silver, N. J. Letter and bill file	355,614	Jan. 4	414	114	38	82
Kingman, Horace, Brockton, Mass. Reamer.....	375,361	Dec. 27	1706	448	41	1402
Kingman, Michael, East Saginaw, assignor of one-fourth to C. H. Masecar, Saginaw, Mich. Car-brake.....	370,018	Sept. 13	1019	269	40	1234
Kingsbury, Addison. (See Allen, Frank H., assignor.)						
Kingsford, Thomson. (See Tonkin, John J., assignor.)						
Kingsland, Abraham W. (See Hutchinson, John A., assignor.)						
Kingsland, Hugh A., Newark, N. J. Machine for inserting lacing-studs	366,115	July 5	493	{ 133 134 135 }	{ 40	93
Kingsland, Hugh A., Newark, N. J., assignor to Union Eyelet Company, Providence, R. I. Lacing hook or stud	365,822	July 5	86	24	40	18
Kingsland, Philip S., Chicago, Ill. Saw-mill set-works.....	365,478	June 28	1863	484	39	1464
Kingsley, George, assignor of one-half to E. Hook, Leavenworth, Kans. Steam-boiler.....	362,844	May 10	1100	{ 297 298 }	{ 39	685
Kingsley, George H. (See Fish, Oren, assignor.)						
Kingsley, John F., Athens, Pa. Die and connection for making eye-bars	357,833	Feb. 15	1597	414	38	737
Kingsley, John F., Athens, Pa. Die for making eye-bars	369,014	Aug. 30	2412	640	40	946
Kingston, Edward S., <i>et al.</i> (See Kingston, William, assignor.)						
Kingston, Frank, St. John's, county of Kent, England. Machine for cutting, bundling, and binding fire-wood	369,603	Sept. 6	399	{ 110 111 }	{ 40	1111
Kingston, William, Little Falls, assignor of two-thirds to G. A. Reynolds and E. S. Kingston, Utica, N. Y. Method of and device for making wooden lasts	355,615	Jan. 4	416	114	38	82
Kingzett, Charles T., Trevena, Amherst Park, county of Middlesex, England. Disinfectant.	371,074	Oct. 4	487	.....	41	96
Kingzett, Charles T., Trevena, Amherst Park, county of Middlesex, England. Antiseptic solution	374,125	Nov. 29	2758	.....	41	1025
Kinley, Daniel R. (See Rathbun and Kinley.)						
Kinnard, William M., Dayton, Ohio. Combined poll-book and tally-sheet.....	371,948	Oct. 25	1737	449	41	368
Kinne, Edwin A., Kansas City, Mo. Hitching-post	373,832	Nov. 29	2343	629	41	945
Kinnear, Benjamin F. (See Crawford and Kinnear.)						
Kinnear, Peter. (See Loftus, John, assignor.)						
Kinney, Francis S., Pequannac, N. J., assignor to Kinney Tobacco Company, New York, N. Y. Cigarette-case	357,997	Feb. 15	1819	478	38	778
Kinney, Francis S., Pequannac, N. J., assignor to Kinney Tobacco Company, New York, N. Y. Cigarette-case	362,845	May 10	1101	298	39	685
Kinney, Francis S., Pequannac, N. J., and W. H. Butler, Brooklyn, N. Y., assignors to Kinney Tobacco Company, of New York. Apparatus for delivering packages of cigarettes	364,261	June 7	82	24	39	1104
Kinney, Francis S., Pequannac, N. J., and W. H. Butler, Brooklyn, assignors to Kinney Tobacco Company, New York, N. Y. Cigarette-box	369,063	Aug. 30	2488	660	40	961
Kinney, Henry M., <i>et al.</i> (See Higgins, Henry C., assignor.)						
Kinney, Nathaniel, Amity, Democracy, Ohio. Pegging-jack	374,744	Dec. 13	819	215	41	1216
Kinney Tobacco Company. (See Butler, William H., assignor.)						
Kinney Tobacco Company. (See Kinney, Francis S., assignor.)						
Kinney Tobacco Company. (See Kinney and Butler, assignors.)						
Kinports, Martin, Ephrata, Pa. Tobacco scrapping and granulating machine.....	371,200	Oct. 11	664	169	41	139
Kinsey, Peter S., Newark, N. J. Presser-wheel for knitting-machines	356,843	Feb. 1	141	38	38	449
Kinsley, Nathaniel, and A. Heusser, Taylor, Nev. Snap-hook	359,929	Mar. 22	2249	566	38	1346
Kintner, Charles J., Philadelphia, Pa. Electrical safe-lock.....	372,026	Oct. 25	1846	{ 478 479 }	{ 41	389
Kintner, Charles J., Philadelphia, Pa. Electro-magnetic safe-lock.....	372,027	Oct. 25	1851	{ 479 480 }	{ 41	389
Kintner, Charles J., Philadelphia, Pa. Electrical safe-lock	372,028	Oct. 25	1857	480	41	390
Kintner, Charles J., Philadelphia, Pa. Electrical combination-lock	372,029	Oct. 25	1862	481	41	390
Kinyon, D. Randolph, assignor of one-half to J. C. Kinyon, Raritan, N. J. Friction-clutch.	357,608	Feb. 15	1263	332	38	676
Kinyon, Job C. (See Kinyon, D. Randolph, assignor.)						
Kipp, Louis W., Hoboken, N. J. Etching zinc and other metal plates	362,974	May 17	1294	.....	39	727
Kipper, Emil. (See McClelland, John A., assignor.)						
Kirby, Abner S., Fredericktown, Ohio. Cover for wells, cisterns, &c.....	362,095	May 3	60	18	39	484
Kirby, Frank E., Detroit, Mich. Marine boiler	357,010	Feb. 1	373	100	38	491
Kirby, James A., Chicago, assignor of one-half to E. S. Benson, Cook County, Ill. Seal-lock.	356,770	Feb. 1	38	11	38	430
Kirby, James A., assignor to E. S. Benson and G. T. Houston, Chicago, Ill. Seal-lock.....	360,100	Mar. 29	2540	647	38	1407
Kirby, James A., assignor to himself, E. S. Benson, Chicago, Ill., and J. A. Inslee, St. Louis, Mo. Seal-lock	359,450	Mar. 15	1478	378	38	1191
Kirby, James H., and G. Fraser, Coal Valley, W. Va. Miner's combination-box.....	371,592	Oct. 18	1208	315	41	253
Kirby, James J., assignor to Williams, White & Co., Moline, Ill. Saw-mill set-works	360,305	Mar. 29	2851	726	38	1465
Kirby, James J., deceased; N. E. Kirby, Moline, Ill., administratrix and assignor to Sheffield Velocipede Car Company, Three Rivers, Mich. Machine for making rims of car-wheels.....	373,777	Nov. 22	2259	606	41	920
Kirby, John, Jr., assignor to Dayton Manufacturing Company, Dayton, Ohio. Car-seat lock	362,891	May 10	1171	313	39	698

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Kirby, John, Jr., Dayton, Ohio, assignor to M. Hicks and T. Smith, New York, N. Y. Car-lamp.....	367,109	July 26	1859	502	40	375
Kirby, John L. (See Voltz, George M., assignor.)						
Kirby, Nettie E., administratrix. (See Kirby, James J.)						
Kirby, Thomas, and A. Singer, Petoskey, Mich. Car-coupling.....	373,987	Nov. 29	2561	688	41	987
Kirby, William A. (See Teed, Jesse S., assignor.)						
Kirchner, Frank I. (See Kirchner, Joseph A. and F. I.) (Reissue.)						
Kirchner, Frederick C., and W. H. Washburn, New York, N. Y. Door-securer.....	358,278	Feb. 22	2223	587	38	858
Kirchner, Joseph A. and F. I., Allegheny, Pa. Neckscarf. (Reissue).....	10,830	Apr. 26	2389	623	39	465
Kirchner, Nicholas, Philadelphia, Pa. Cable railway.....	355,826	Jan. 11	740	193	38	152
Kirchner, Nicholas, Philadelphia, Pa. Brick-machine.....	368,341	Aug. 16	1454	387	40	745
Kirk, Benjamin C., <i>et al.</i> (See Barnes, Wesley W., assignor.)						
Kirk, Henry. (See Hull and Kirk.)						
Kirk, Hyland C., Phelps, N. Y. Device for classifying clippings of printed matter.....	365,386	June 28	1735	{ 448 449 }	{ 39 }	1440
Kirk, John E. (See Alden and Kirk.)						
Kirk, John P., Austin, Tex. Plow.....	371,593	Oct. 18	1209	315	41	253
Kirk, John P., Austin, Tex. Plow.....	371,594	Oct. 18	1210	316	41	253
Kirk, Joseph, Worcester, Mass. Friction-clutch.....	362,636	May 10	814	223	39	632
Kirk, William B. (See Pearsall, Charles W., assignor.)						
Kirk, William S. (See McCutcheon, John H., assignor.)						
Kirkeby, Charles S. F., Long Island City, assignor of one-third to L. W. Unholtz, New York, N. Y. Cabinet-chair.....	358,616	Mar. 1	298	71	38	958
Kirker, Milton B., Pittsburg, Pa. Whiffletree-coupling.....	372,681	Nov. 8	587	159	41	591
Kirker, Thomas, Belfast, county of Antrim, Ireland. Fishing-rod joint.....	373,561	Nov. 22	1954	518	41	860
Kirkland, Austin L., Boston, Pa. Car-brake.....	356,589	Jan. 25	1847	485	38	375
Kirkland, Austin L., Boston, and T. A. Lynch, McKeesport, Pa. Steam-condensing appli- ance.....	368,402	Aug. 16	1532	409	40	760
Kirkpatrick, David H. (See Hazen and Kirkpatrick.)						
Kirkpatrick, Frank, Greenville, Mo. Clevis.....	360,023	Mar. 29	2410	611	38	1383
Kirkpatrick, George W. (See Corser, Edson J., assignor.)						
Kirkpatrick, George W., Macedon, N. Y. Seeding-machine.....	359,727	Mar. 22	1921	487	38	1288
Kirkpatrick, George W., and A. J. Martin; said Martin assignor to H. M. Kirkpatrick, Macedon, N. Y. Changeable-speed gearing.....	357,834	Feb. 15	1598	414	38	737
Kirkpatrick, Helen M. (See Kirkpatrick and Martin, assignors.)						
Kirkpatrick, Helen M. (See Rung, Henry, assignor.)						
Kirkpatrick, James L., Springfield, Mass. Chuck.....	357,394	Feb. 8	937	246	38	605
Kirkpatrick, Thomas W. B., Ottumwa, Iowa. Milk-cooler.....	373,462	Nov. 22	1791	476	41	832
Kirkwood, Horace B. (See Finley and Kirkwood.)						
Kirkwood, Thomas, Chicago, Ill. Grate for furnaces. (Reissue.).....	10,863	Aug. 30	2813	{ 750 751 }	{ 40 }	1026
Kirlin, Linden, Axtell, Kans. Listed-corn cultivator.....	355,652	Jan. 4	484	129	38	95
Kirlin, Otis, Webster, Dak. Ter. Automatic brake for wagons.....	372,682	Nov. 8	588	160	41	591
Kirn, U. Grant, <i>et al.</i> (See Snowberger, Jacob, assignor.) (Reissue.)						
Kirstein, H. E. (See Ga Nun and Parsons, assignors.)						
Kirven, Peter E., Wortham, Tex. Cultivator.....	360,304	Mar. 29	2850	726	38	1465
Kirwan, Martin, Syracuse, N. Y. Steam-boiler.....	367,983	Aug. 9	942	255	40	639
Kisinger, Frank P. (See Dunham and Kisinger.)						
Kisinger, George W. (See Dunham and Kisinger.)						
Kisinger, George W., assignor of two-thirds to F. P. Kisinger, Danville, and J. W. Dun- ham, Inglewood, Ill. Lamp-filling attachment.....	358,422	Feb. 22	2413	641	38	895
Kissel, Albert, Salem, assignor to Adamanta Manufacturing Company, Boston, Mass. In- sulated electrical conductor.....	375,295	Dec. 20	1612	423	41	1376
Kissell, Emanuel M., Springfield, Ohio. Cultivator.....	362,517	May 10	630	178	39	600
Kissingner, Frank P., <i>et al.</i> (See Kisinger, George W., assignor.)						
Kissner, Leonard, and J. J. Gromme, assignors to Hocking Valley Manufacturing Com- pany, Lancaster, Ohio. Horse hay-rake.....	369,604	Sept. 6	403	{ 111 112 }	{ 40 }	1112
Kistler, Casper, Sterling, Ill. Pendant winding and setting watch.....	371,595	Oct. 18	1211	316	41	254
Kistler, Willoughby F., assignor to Standard Lamp Company, Cleveland, Ohio. Wick- raising device.....	372,626	Nov. 1	508	138	41	567
Kistner, Harry U., Bordentown, N. J. Scissors-sharpener.....	371,689	Oct. 18	1351	349	41	282
Kistner, Harry U., Bordentown, N. J. Snap-hook.....	371,690	Oct. 18	1352	350	41	282
Kitchel, Lyman B., Rushville, N. Y. Wire wash-board.....	360,306	Mar. 29	2853	726	38	1466
Kitselman, Alva L., assignor of one-third to D. M. Kitselman, Ridgeville, Ind. Wire- fabric machine.....	356,322	Jan. 18	1465	{ 385 386 387 }	{ 38 }	295
Kitselman, Alva L. and D. M., Ridgeville, Ind. Windmill.....	356,137	Jan. 18	1214	{ 322 323 }	{ 38 }	248
Kitselman, Davis M. (See Kitselman, Alva L., assignor.)						
Kitselman, Davis M. (See Kitselman, Alva L. and D. M.)						
Kitson, Arthur, Philadelphia, Pa. Carbureting-lamp.....	370,340	Sept. 20	1473	395	40	1328
Kitson, Arthur, Philadelphia, Pa. Carbureting-lamp.....	370,341	Sept. 20	1474	395	40	1328
Kitson Electric Company. (See Kitson, George L., assignor.)						
Kitson, George L., Philadelphia, Pa., assignor to Kitson Electric Company, Camden, N. J. Machine for making seamless lead-covered electrical conductors.....	364,177	May 31	3000	779	39	1070
Kitson, George L., Philadelphia, Pa., assignor to Kitson Electric Company, Camden, N. J. Lead-covered electrical conductor or cable.....	364,178	May 31	3002	779	39	1070
Kitson Machine Company. (See Bourne, James N., assignor.)						
Kitson Machine Company. (See Kitson, Richard, assignor.)						
Kitson Machine Company. (See Perham, Haven C., assignor.)						
Kitson, Richard, assignor to Kitson Machine Company, Lowell, Mass. Machine for open- ing and cleaning cotton, &c.....	373,075	Nov. 15	1198	{ 319 320 }	{ 41 }	710
Kitson, Richard, assignor to Kitson Machine Company, Lowell, Mass. Machine for open- ing and preparing cotton.....	374,899	Dec. 13	1047	{ 273 274 }	{ 41 }	1260
Kitson, Richard, assignor to Kitson Machine Company, Lowell, Mass. Machine for open- ing and preparing cotton.....	375,362	Dec. 27	1707	448	41	1402
Kittell, Ernest A., assignor of five-eighths to B. G. Button, T. N. Kellogg, and W. H. Hart- man, Waterloo, Iowa. File. (Reissue).....	10,847	July 5	601	{ 162 163 }	{ 40 }	114
Kittinger, Levi, Akron, Ohio. Match-machine.....	356,719	Jan. 25	2023	532	38	409
Kittredge, Anson O., Slate Hill, N. Y., assignor to Vulcan Company, Philadelphia, Pa. Circle and gasket cutter.....	362,218	May 3	222	65	39	516
Kittredge, Anson O., Slate Hill, N. Y., assignor to Vulcan Company, Philadelphia, Pa. Sheet-metal-scroll cutter.....	362,975	May 17	1295	343	39	727
Kittredge, Anson O., Slate Hill, N. Y., assignor to Vulcan Company, Philadelphia, Pa. Sheet-metal-scroll cutter.....	362,976	May 17	1296	344	39	727

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Kittredge, Anson O., Slate Hill, N. Y., assignor to Vulcan Company, Philadelphia, Pa. Sheet-metal-scroll cutter.....	362,977	May 17	1298	344	39	728
Kittredge, Anson O., Slate Hill, N. Y., assignor to Vulcan Company, Philadelphia, Pa. Sheet-metal-scroll cutter.....	364,262	June 7	83	24	39	1104
Kittredge, Anson O., Slate Hill, and F. M. Leavitt, Brooklyn, N. Y. Sheet-metal-scroll cutter.....	364,763	June 14	796	{ 210 211 }	{ 39 }	1245
Kitzmiller, Edward A., Braddock, Pa. Cigar-bunching machine.....	367,916	Aug. 9	843	228	40	621
Kitzmiller, Edward A., Braddock, and G. H. Culley, Allegheny; said Culley assignor to J. K. Collins, Glenfield, Pa. Cigar-bunching machine.....	367,917	Aug. 9	845	228	40	621
Kitzmiller, Josiah, Keedysville, Md. Trace-fastener.....	366,589	July 12	1150	308	40	228
Kizer, Carey F., assignor to himself and H. D. Loudonback, Westville, Ohio. Mail-bag.....	373,666	Nov. 22	2104	563	41	891
Klán, Václav, and F. Spurny, Prague, Austria-Hungary. Arc lamp.....	357,774	Feb. 15	1524	397	38	722
Klaproth, Gustav, Brooklyn, assignor to Liebenroth, Van Arno & Co., New York, N. Y. Clasp for books.....	373,562	Nov. 22	1956	{ 518 519 }	{ 41 }	860
Klassert, Henry. (See Weitz and Klassert.)						
Klau, Richard, <i>et al.</i> (See Randall, Purdy M. and A., assignors.)						
Kleber, Emil, assignor to L. Wolff, Berlin, Germany. Umbrella.....	363,650	May 24	2245	581	39	921
Klein, Goodhart & Koch. (See Klein, Isaac N., assignor.)						
Klein, Henry P., Chicago, Ill. Heat-deflector for registers.....	365,078	June 21	1272	336	39	1341
Klein, Isaac N., assignor to Klein, Goodhart & Koch, Cleveland, Ohio. Trousers.....	362,015	Apr. 26	2344	611	39	457
Klein, Johann, Frankenthal, Bavaria, Germany. Filter.....	367,212	July 26	1995	540	40	402
Klein, John G. (See Whalen, William A., assignor.)						
Klein, John M., Chicago, Ill. Bedstead.....	371,767	Oct. 18	1467	379	41	307
Klein, John S., Oil City, Pa. Pipe-coupling.....	365,387	June 28	1736	449	39	1440
Klein, John S., Oil City, Pa. Pipe-coupling.....	365,388	June 28	1737	449	39	1440
Klein, John S., Oil City, Pa. Shut-off valve for gas-service pipes.....	371,075	Oct. 4	487	122	41	96
Klein, Joseph, Condersport, Pa. Rod-cutter.....	374,480	Dec. 6	444	115	41	1130
Klein, Louis, <i>et al.</i> (See Washburn, Francis M., assignor.)						
Klein, Peter L., Dusseldorf, Prussia, Germany. Preparing wool for spinning.....	357,486	Feb. 8	1066	.....	38	629
Kleinert, Isaac B. (See Basch, David, assignor.)						
Kleinert, Isaac B. (See Squires, Arthur C., assignor.)						
Kleinert, Isaac B., New York, N. Y. Hinge.....	355,827	Jan. 11	741	193	38	152
Kleinert, Isaac B., New York, N. Y. Ear-protector.....	359,612	Mar. 22	1764	448	38	1259
Klemme, William C., St. Louis, Mo. Switching grip-cars of cable roads.....	363,749	May 24	2387	620	39	948
Kletzker, Albert J., St. Louis, Mo. Book-cover.....	361,950	Apr. 26	2237	582	39	440
Kletzker, Albert J., St. Louis, Mo. Fountain-pen.....	370,342	Sept. 20	1475	395	40	1328
Klick, Frank A. (See Lachler, John, assignor.)						
Klif, Jabez, Fergus Falls, Minn. Attachment for squares.....	366,404	July 12	888	239	40	176
Kline, David C., Rochester, N. Y. Tubular lantern.....	364,825	June 14	895	236	39	1262
Kline, David C., Rochester, N. Y. Tubular lantern.....	365,605	June 28	2063	538	39	1504
Kline, David C., Rochester, N. Y. Tubular lantern.....	366,008	July 5	357	96	40	67
Kline, David C., assignor to Steam Gauge and Lantern Company, Rochester, N. Y. Tubular lantern.....	364,420	June 7	298	82	39	1145
Kline, David R., Ridgway, Pa. Gas-burner.....	365,606	June 28	2064	538	39	1504
Kline, William, and J. C. Jadicke, Wilmington, Del. Combined square, calipers, and dividers.....	357,487	Feb. 8	1068	282	38	630
Klinefelter, Charles L., Burgoon, Ohio. Roofing compound.....	368,476	Aug. 16	1652	.....	40	783
Klinefelter, William M., St. Paul, Minn. Steam-trap.....	373,833	Nov. 29	2344	629	41	945
Kling, Isaac, Louisville, Ky. Car-coupling.....	361,165	Apr. 12	1124	284	39	213
Kling, Isaac, Louisville, Ky. Car-coupling.....	370,343	Sept. 20	1476	396	40	1328
Klinger, Albert, Bradford, Ohio, assignor of one-half to J. M. Westcott, Richmond, Ind. Plow.....	359,613	Mar. 22	1765	448	38	1259
Klinger, Robert, Jersey City, N. J. Straight-knitting machine.....	369,343	Sept. 6	50	14, 15	40	1044
Klingler, J. William. (See Stetler and Klingler.)						
Klinker, Wesley, Union Mills, Iowa. Horse hay-rake.....	368,953	Aug. 30	2330	620	40	930
Klock, Monroe. (See Holbon, Robert, assignor.)						
Klopp, Rudolph F., Mason, Mich. Sad-iron.....	366,670	July 19	1270	339	40	257
Klopsch, Louis, New York, N. Y. Base for stereotype-plates.....	360,307	Mar. 29	2854	727	38	1466
Klotz, George A. and J. E., Canton, Ohio. Device for guiding traction-engines.....	363,246	May 17	1660	436	39	800
Klotz, John E. (See Klotz, George A. and J. E.)						
Klotz, Philip, assignor to B. C. Bibb, Baltimore, Md. Range.....	364,116	May 31	2906	754	39	1052
Knaak, Louis, Oakdale, Pa. Wire-rope clutch.....	360,891	Apr. 12	706	187	39	138
Knaggs, Christopher, Detroit, Mich. Locomotive-grate.....	374,839	Dec. 13	959	250	41	1242
Knaggs, Henry V., 189 Camden Road, county of Middlesex, England. Ointment.....	372,852	Nov. 8	864	.....	41	639
Knaggs, John W., Bay City, assignor to A. C. Haven, West Bay City, Mich. Blotting-pad holder and protector.....	371,507	Oct. 11	1093	284	41	222
Knapp, Charles, assignor of one-half to L. L. Frierson, Mount Pleasant, Tenn. Invalid-bedstead.....	359,728	Mar. 22	1923	488	38	1288
Knapp, Charles L. (See Knapp, William H., assignor.)						
Knapp, Edmond B. (See Ryan and Knapp.)						
Knapp, Edmond B., San Jacinto, Cal. Whip.....	364,023	May 31	2785	721	39	1029
Knapp, Edmond B., San Jacinto, Cal. Whip.....	369,015	Aug. 30	2414	641	40	946
Knapp, Edward, assignor to G. D. Barnard, St. Louis, Mo. Ruling-machine.....	362,892	May 10	1172	313	39	698
Knapp, George W. (See Marble and Knapp.)						
Knapp, George W., assignor to Matthai, Ingram & Co., Baltimore, Md. Making wire handles.....	371,463	Oct. 11	1027	268	41	209
Knapp, Jacob, Cincinnati, Ohio, assignor to W. W. Grier, Hulton, Pa., and Sechter & Co., Cincinnati, Ohio. Fifth-wheel.....	358,399	Feb. 22	2384	633	38	889
Knapp, James R., New Orleans, La., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Blow-pipe connection for gas-tanks.....	370,067	Sept. 20	1090	{ 288 289 }	{ 40 }	1255
Knapp, John F., Omaha, Nebr. Car-step.....	365,924	July 5	241	63	40	47
Knapp, John I., J. C. McKenzie, and W. Humphrey, Adrian, Mich. Brick or tile machine.....	364,826	June 14	897	{ 236 237 }	{ 39 }	1263
Knapp, Milton H., Jackson, Mich. Dental apparatus.....	369,114	Aug. 30	2558	680	40	973
Knapp, Oscar F., Osceola Mills, Wis. Steam-generator.....	366,223	July 12	647	175	40	130
Knapp, William H., Galesburg, Mich. Grain gatherer and packer for binders.....	368,892	Aug. 23	2235	595	40	903
Knapp, William H., Brooklyn, N. Y. Dress-form.....	373,989	Nov. 29	2564	{ 689 690 }	{ 41 }	987
Knapp, William H., Brooklyn, assignor of one-half to C. L. Knapp, New Haven, Conn. Garment-stand.....	373,988	Nov. 29	2562	{ 688 689 }	{ 41 }	987
Knapp, Wright, Eveland Grove, Iowa. Machine for winding and tightening fence-wires.....	357,209	Feb. 8	691	179	38	558
Knaus, Joseph H., assignor of two-thirds to W. C. Knaus and L. L. Lynn, Fayette, Mo. Drawer.....	363,647	May 24	2242	580	39	920
Knaus, Joseph H., Fayette, Mo., assignor of four-fifths to W. C. Knaus, L. L. Lynn, A. J. Furr, and M. T. Settle. Drawer-equalizer.....	367,344	July 26	2203	592	40	440

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Knauss, George L., Allentown, assignor to Hyatt School Slate Company, (limited,) Bethlehem, Pa. Sandpapering-machine	366,009	July 5	358	96, 97	40	68
Knauss, Thomas E., assignor to P. Hayden Saddlery Hardware Company, Columbus, Ohio. Fan or blower	368,093	Aug. 9	1096	291	40	667
Knebel, Herman, Birmingham, Ala. Rotary engine	371,949	Oct. 25	1738	{ 449 450 }	{ 41 41 }	368
Knecht, Gustav, Chicago, Ill. Barber's chair	370,877	Oct. 4	186	49	41	37
Knecht, Victor E. (See Barrath, Edward, assignor.)						
Kneip, William F., Chicago, Ill. Combination under-garment	374,307	Dec. 6	195	51	41	1083
Kneip, William F., Chicago, Ill., assignor to Hay & Todd Manufacturing Company, Ypsilanti, Mich. Lady's drawers	357,127	Feb. 1	572	147	38	527
Kneuper, Frederick J., New York, assignor to C. Lembke, Brooklyn, and E. Huber, New York, N. Y. Electro-therapeutic apparatus	372,808	Nov. 8	804	215	41	628
Kneuper, George, New York, N. Y. Atomizer	363,247	May 17	1661	436	39	800
Kneutson, Kneut, River Forest, Ill. Memorandum-file	365,607	June 28	2065	538	39	1504
Knickerbocker Company. (See Finch, John M., assignor.)						
Knickerbocker Company. (See Morse, Orville M., assignor.)						
Knickman, Henry, East New York, N. Y. Ear-ring	364,179	May 31	3004	780	39	1070
Knickman, Henry, East New York, N. Y. Jewel-support for the balance-staffs of watches	372,269	Oct. 25	2223	570	41	458
Knifton, Frank O. (See Knifton, George H. and F. O.)						
Knifton, George H. and F. O., Denver, Colo. Guard-head for barrels	365,079	June 21	1273	336	39	1342
Knight, Clarence H., Boston, Mass. Pocket memorandum-book	370,793	Oct. 4	60	15	41	14
Knight, Edgar, Saybrook, Conn. Hasp-lock	359,681	Mar. 22	1852	470	38	1276
Knight, Erastus G., <i>et al.</i> (See Smith, A. Buttles, assignor.)						
Knight, Frank D., Hudson, Mass. Safety-car	365,309	June 21	1604	418	39	1402
Knight, George W. (See Hopkins and Knight.)						
Knight, Hartley. (See Read and Knight.)						
Knight, Henry M., Lancaster, Pa. Boring-tool	356,138	Jan. 18	1217	323	38	249
Knight, Herbert, New York, N. Y. Flexible tube	367,301	July 26	2144	577	40	428
Knight, Samuel N., Sutter Creek, Cal. Hydraulic engine	371,076	Oct. 4	489	{ 122 123 }	{ 41 41 }	97
Knight, Thomas, <i>et al.</i> (See Wise, Morris, assignor.)						
Knight, Walter H., New York, N. Y. Transmitting-gear for electric motors	358,043	Feb. 22	1880	{ 497 498 499 }	{ 38 38 38 }	795
Knight, Walter H., New York, N. Y. Electrical resistance	368,596	Aug. 23	1815	483	40	823
Knight, William B., Colfax, Ill. Belt-replacer	368,094	Aug. 9	1096	291	40	667
Knight, William H. H., Washington, D. C., assignor to Economy Kindling Wood Stove Company, Philadelphia, Pa. Portable furnace	355,696	Jan. 11	548	144	38	117
Kniiss, Samuel F., Warsaw, Ind. Gate	369,644	Sept. 6	462	129	40	1123
Knoll, John G. (See Gumaer and Knoll.)						
Knollin, Edward M., Lacona, N. Y. Milking-instrument	371,768	Oct. 18	1468	379	41	307
Knoop, Josiah, Casstown, Ohio. Harvesting-machine	374,601	Dec. 13	626	163	41	1177
Knopp, Charles and J., Winona, Minn. Curry-comb	360,702	Apr. 5	440	112	39	82
Knopp, Jacob, Beaver, Ohio. Forcing attachment for lift-pumps	364,655	June 14	626	169	39	1214
Knopp, Joseph. (See Knopp, Charles and J.)						
Knott, Kennard, Chicago, Ill. Dredger	366,010	July 5	360	{ 97 98 99 }	{ 40 40 40 }	68
Knott, Kennard, Chicago, Ill. Steam-valve	369,797	Sept. 13	660	{ 179 180 181 }	{ 40 40 40 }	1169
Knott, Samuel W., assignor of one-half to L. A. Brown, St. Louis, Mo. Folding seat	359,790	Mar. 22	2027	{ 513 514 }	{ 38 38 }	1306
Knott, Samuel W., assignor of one-half to L. A. Brown, St. Louis, Mo. Combined seat and bed	362,016	Apr. 26	2344	611	39	457
Knous, Franklin F., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	358,279	Feb. 22	2223	587	38	859
Knous, Franklin F., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	372,153	Oct. 25	2052	525	41	424
Knous, John, Hartford, Conn., assignor, by mesne assignments, to Pope Manufacturing Company, Portland, Me. Crank for velocipedes	363,522	May 24	2058	535	39	885
Knous, John, Hartford, Conn., assignor to Pope Manufacturing Company, Portland, Me. Steering-head for velocipedes	371,266	Oct. 11	756	194	41	156
Knous, John, Hartford, Conn., assignor to Pope Manufacturing Company, Portland, Me. Velocipede-fork	374,542	Dec. 6	543	141	41	1151
Knowles, Ezra S., <i>et al.</i> (See Travis, Jerome, assignor.)						
Knowles, J. Henry. (See Proctor and Knowles.)						
Knowles Loom Works. (See Hutchins, George F., assignor.)						
Knowles Loom Works. (See Wattie, William, assignor.)						
Knowles, William A., Alameda, Cal. Dental engine	372,317	Nov. 1	49	15	41	481
Knowles, William A., Alameda, Cal. Dental engine	373,141	Nov. 15	1296	344	41	728
Knowles, William A., Alameda, assignor to E. Thompson, San Francisco, Cal. Dental-engine bracket	368,154	Aug. 9	1177	314	40	683
Knowlton, Charles H., assignor of part to J. P. Cilley, Rockland, Me., G. E. Bolton and W. M. Lowney, Boston, Mass. Car-coupling	368,155	Aug. 9	1178	315	40	683
Knowlton, Charles H., assignor of thirty-three one-hundredths to J. P. Cilley, Rockland, Me., G. E. Bolton and W. M. Lowney, Boston, Mass. Car-coupling	369,291	Aug. 30	2783	742	40	1019
Knowlton, Charles H., and B. F. Meyer, Camden, N. J. Shuttle-box mechanism for looms	371,769	Oct. 18	1469	380	41	307
Knowlton, Dallas, Brantford, Ontario, Canada. Bed-bottom	371,464	Oct. 11	1028	268	41	209
Knowlton, Edgar F., Bangor, Me. Swinging stove-pipe shelf	371,201	Oct. 11	666	170	41	139
Knowlton, George K., Hamilton, Mass. Dough-kneader	355,767	Jan. 11	649	170	38	136
Knowlton, George K., Hamilton, Mass. Pie-plate attachment	372,318	Nov. 1	50	15	41	481
Knowlton Manufacturing Company. (See Brown, Charles M., assignor.)						
Knowlton, William A., Rockford, Ill. Cultivator	358,557	Mar. 1	221	51	38	944
Knowlton, William F., assignor of one-half to J. S. Hull, St. Cloud, Minn. Lifting-jack	369,645	Sept. 6	463	129	40	1123
Knowlton, William H., Toronto, Ontario, Canada. Dumping-wagon	367,412	Aug. 2	78	21	40	466
Knox, Frank, Boston, Mass. Mechanism for uniting scraps of leather or other material	370,068	Sept. 20	1093	{ 289 290 }	{ 40 40 }	1255
Knox, George A., Lynn, Mass. Leather-finishing machine	362,286	May 3	301	83, 84	39	532
Knox, George A., Lynn, Mass. Molding heel-stiffeners for boots or shoes	365,608	June 28	2066	{ 538 539 }	{ 39 39 }	1505
Knox, George A., Lynn, Mass. Heel-stiffener machine	374,414	Dec. 6	343	89	41	1111

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Knox, George A., Lynn, Mass. Machine for molding counters or stiffeners for boots and shoes	375,494	Dec. 27	1881	492	41	1436
Knox, George F., San Antonio, Tex. Ice making and blocking machine	363,248	May 17	1663	436	39	800
Knox, John L. L. (See Murdock and Knox.)						
Knox, Josiah N., San José, Cal. Windmill	359,930	Mar. 22	2249	566	38	1347
Knox, Orville M., Madison, N. Y. Wire-holder for hop-vine supports	356,139	Jan. 18	1218	323	38	249
Knox Rock Blasting Company. (See Murdock, Thomas, assignor.)						
Knox Rock Blasting Company. (See Murdock and Knox, assignors.)						
Knox, Thomas A., Carrollton, Ky. Shaft-support	365,310	June 21	1605	418	39	1402
Knudsen, Cornelius, Copenhagen, Denmark, assignor to C. J. Wilson, San Francisco, Cal. Cigar-tip cutter	366,172	July 5	572	154	40	108
Knudson, Adolphus A., Brooklyn, N. Y. Electro-acoustic apparatus	360,308	Mar. 29	2856	727	38	1466
Knudson, Hans, assignor to himself and H. S. Grinde, De Forrest, Wis. Bridge	356,407	Jan. 18	1589	418	38	318
Knupp, Henry and J., Warren, Pa. Thill-coupling	373,590	Nov. 22	1998	530	41	868
Knupp, John. (See Knupp, Henry and J.)						
Koblentz, Fredrick W., Springfield, Ohio. Wire-lapping tool	374,191	Dec. 6	38	10	41	1053
Koch, Carl, Wismar, Mecklenburg-Schwerin, Germany. Machine for washing barley or other grain	364,354	June 7	202	56	39	1127
Koch, Eberhard, assignor of one-half to C. J. Allen, New Orleans, La. Wood-distilling apparatus	367,413	Aug. 2	79	21, 22	40	466
Koch, John F., Steelton, Pa. Vehicle-toboggan	371,770	Oct. 18	1471	380	41	307
Koch, William, New York, N. Y. Machine for printing and adding checks	367,345	July 26	2204	{ 592 593 }	{ 40 40 }	440
Koch, William, New York, N. Y. Governor for adding, counting, and registering machines	367,346	July 26	2209	593	40	441
Koch, William, New York, N. Y. Stop device for intermittent feed mechanism	370,705	Sept. 27	2033	541	40	1438
Koch, William, New York, N. Y. Quilting-machine	371,950	Oct. 25	1741	{ 450 451 }	{ 41 41 }	369
Koch, William, New York, N. Y. Quilting-machine	375,552	Dec. 27	1967	512	41	1453
Koch, William, assignor to Kruse Check and Adding Machine Company, New York, N. Y. Stop device for adding, counting, or registering machines	362,219	May 3	223	65	39	516
Koch, William, assignor to Kruse Check and Adding Machine Company, New York, N. Y. Check-printing and adding machine	367,213	July 26	1996	{ 540 541 }	{ 40 40 }	402
Kochka, Thomas, Jersey City, N. J. Toy bowling-alley	358,359	Feb. 22	2330	618	38	879
Kochs, Theodore A., Chicago, Ill. Buckle for razor-strops	358,861	Mar. 8	665	166	38	1031
Kochs, Theodore A., Chicago, Ill. Barber's chair	374,840	Dec. 13	960	250	41	1242
Kochsmeier, Henry P., et al. (See Devore, Levi M., assignor.)						
Kochsmeier, Henry P., Freeport, Ill. Bracket	365,690	June 28	2185	570	39	1526
Kock, Christian H., A. B. Macklin, M. McDermott, and W. D. O'Brien, Chicago, Ill. Car-axle lubricator	357,835	Feb. 15	1600	415	38	737
Kock, Henry, et al., executors. (See Armbruster, Frederick.)						
Koeb, Gebhard, assignor of one-half to J. B. Korn, Springfield, Ohio. Stove-pipe collar	374,974	Dec. 20	1183	308	41	1293
Koeberle, John M., assignor to T. Devlin & Co., Philadelphia, Pa. Meat-hook	367,302	July 26	2145	577	40	428
Koefoed, Charles J. (See Buckley and Koefoed.)						
Koegel, Alois, Milwaukee, Wis. Portable parcel-holder	365,389	June 28	1738	450	39	1440
Koehler, William H., assignor of two-thirds to L. C. Guenther and J. Farrow, Cleveland, Ohio. Cash-carrier	374,683	Dec. 13	731	192	41	1199
Koelkebeck, Charles W. A., Camden, N. J., assignor to D. H. Burrell, Little Falls, N. Y., and J. Evans, Philadelphia, Pa. Centrifugal liquid-separator	362,449	May 3	530	148	39	577
Koeller, August, and A. Mueller, Milwaukee, Wis. Hub-attaching device	371,077	Oct. 4	491	123	41	97
Koenig & Bauer. (See König, Edgar, assignor.)						
Koenig, Maximilian J., Jersey Shore, Pa. Head-rest	373,142	Nov. 15	1297	345	41	728
Koenig, Michael, assignor to S. Zinn, New York, N. Y. Lock for frames of pocket-books, &c.	371,508	Oct. 11	1094	284	41	222
Koenig, Nicolas, Tarrytown, assignor to J. Brombacher's Sons, New York, N. Y. Machine for folding sheet metal	367,214	July 26	2004	542	40	403
Koepke, William, Walhalla, Tex. Corn-planter	371,596	Oct. 18	1213	{ 316 317 }	{ 41 41 }	254
Koerner, Alfred C., Paris, France, assignor, by mesne assignments, to Hotchkiss Ordnance Company, (limited,) London, England. Recon-brake for gun-carriages	373,667	Nov. 22	2105	563	41	891
Koerner, Alfred C., Paris, France, assignor to Hotchkiss Ordnance Company, (limited,) London, England. Explosive projectile	374,874	Dec. 13	1008	263	41	1251
Koewing, Frank, New York, N. Y. Fastening together paper dress-patterns	371,144	Oct. 4	584	149	41	115
Kohler, Charles, Oakland, Cal., assignor to Commercial Overseaming Sewing Machine and Manufacturing Company. Sewing-machine	356,590	Jan. 25	1848	{ 485 486 }	{ 38 38 }	375
Kohler, Frank, assignor to W. A. Chambers, St. Louis, Mo. Gang punching-machine	369,344	Sept. 6	52	15, 16	40	1044
Kohler, Frank, and W. A. Chambers, St. Louis, Mo. Malt-drier	362,893	May 10	1173	{ 313 314 }	{ 39 39 }	698
Kohler, Frederick E., Canton, Ohio. Extensible step-ladder	357,676	Feb. 15	1366	360	38	693
Kohler, Frederick E., Canton, Ohio. Crank for hay-tedders	366,671	July 19	1271	339	40	257
Kohler, Frederick E., Canton, Ohio. Hay-rake	368,215	Aug. 16	1267	338	40	707
Kohler, John C., Philadelphia, assignor to W. L. McDowell, Lower Merion, Pa. Stove-grate	374,413	Dec. 6	343	89	41	1111
Kohler, Joseph, Boston, Mass. Heating apparatus	368,153	Aug. 9	1176	314	40	682
Kohler, Nathan, Brooklyn, N. Y. Cigar-stand	358,935	Mar. 8	773	193	38	1051
Kohn, Adolf D., and L. Beckhardt, New York, N. Y., assignors to said Beckhardt. Reducing fibrous plants	367,215	July 26	2005	.....	40	403
Kohn, Jacob W., Newark, N. J. Shutter-fastening	360,964	Apr. 12	819	210	39	157
Kohn, Roswell, assignor of one-half to H. B. Harford, Davenport, Iowa. Buggy-top	375,075	Dec. 20	1321	345	41	1318
Kohnz, Peter, assignor to himself and J. Urig, Avon, Ohio. Windmill	358,205	Feb. 22	2127	561	38	840
Kolb, Charles A. (See Ourdan and Kolb.)						
Kolb, George F., Philadelphia, Pa. Carpet-stretcher and tack driver and extractor	365,823	July 5	87	25	40	19
Kollenberg, George A., Owensborough, Ky. Rim-turner	359,263	Mar. 15	1202	314	38	1140
Kommerell, Theodor, and E. Edwards, Munich, Bavaria, Germany. Automatic flushing apparatus for canals, water-closets, &c.	358,677	Mar. 1	384	92	38	975
Komp, Albert, New York, N. Y. Ornamenting wood	358,678	Mar. 1	386	92	38	975
König, Edgar, assignor to Koenig & Bauer, Kloster-Oberzell, near Würzburg, Bavaria, Germany. Type-bed of printing-machines	361,224	Apr. 12	1215	309	39	230
Konold, John, Chicago, Ill. Attachment for screen barrel-covers	360,892	Apr. 12	707	187	39	138
Kookogey, William P., New York, N. Y. Galvanic-battery solution	360,024	Mar. 29	2411	.....	38	1383
Kookogey, William P., New York, N. Y. Connection for carbon elements in galvanic batteries	360,532	Apr. 5	203	50	39	40
Kookogey, William P., Brooklyn, N. Y. Battery solution	364,656	June 14	627	.....	39	1214
Koon, Joseph. (See Ready, James R., assignor.)						
Koontz, John L., Helena, Mont. Ter. Combination-tool	374,602	Dec. 13	627	164	41	1177
Koontz, Louis K., Cross Lanes, W. Va. Lid-clamp for churns	372,853	Nov. 8	864	231	41	639

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Koplin, Amos, and W. Crowe, Eddystone, Pa. Straining apparatus	373,778	Nov. 22	2261	606	41	921
Koplin, James L., Rockford, Ill. Rail-punching machine	371,597	Oct. 18	1214	317	41	254
Kopp, Frederick, Rochester, N. Y. Ornamenting garments	366,405	July 12	889	239	40	176
Koppe & Moh. (See Koppe and Moh, assignors.)						
Koppe, Richard, and O. Moh, assignors to Koppe & Moh, Goerlitz, Prussia, Germany. Pho- tographer's bag-case and plate-holder	369,646	Sept. 6	464	{ 129 130 }	{ 40 }	1123
Korn, George W. (See Weck, August, assignor.)						
Korn, Jacob B. (See Koeb, Gebhard, assignor.)						
Kornmüller, Gustav, Ghent, Belgium. Apparatus for the transmission of electrical energy	371,331	Oct. 11	841	216	41	172
Kortick, Frank, San Francisco, Cal. Butcher's cleaver	369,406	Sept. 6	134	39	40	1058
Körting, Ernst, Hanover, Prussia, Germany. Gas-motor	366,116	July 5	501	135	40	95
Kosakoff, Jacob. (See List and Kosakoff.)						
Koster, Charles H., Brooklyn, assignor to Unexcelled Fire Works Company, Kings County, N. Y. Bracket for fire-works	364,263	June 7	86	25	39	1105
Kothe, William, Thompsonville, Conn. Shuttle-binder for looms	373,896	Nov. 29	2437	654	41	962
Kouschutzky, Charles, Cincinnati, Ohio. Motor	366,406	July 12	890	239	40	176
Kowalewsky, August. (See Nitsche and Kowalewsky.)						
Koyl, C. Herschel. (See Prindle and Koyl.)						
Kozmann, Johann, Brooklyn, N. Y. Surgical knife	370,706	Sept. 27	2035	541	40	1439
Kraemer, David. (See Baer and Kraemer.)						
Kraetzer, Edwin J., Boston, Mass. Glove-fastener	359,614	Mar. 22	1766	448	38	1259
Kraetzer, Edwin J., Boston, Mass. Glove-fastener	359,615	Mar. 22	1767	449	38	1259
Kraft, Charles J. F. (See Fish and Kraft.)						
Krag, William A., Indianapolis, Ind. Coffee-pot	374,603	Dec. 13	628	164	41	1177
Kramer, August. (See Zilles, Michael, assignor.)						
Kramer, Camillo, Albany, N. Y. Velocipede	355,324	Jan. 4	45	12, 13	38	10
Kramer, Camillo, Albany, N. Y. Velocipede	361,530	Apr. 19	1617	419	39	318
Kramer, Francis D. (See Thompson and Kramer.)						
Kramer, George, assignor of one-fifth to G. C. Wieland, Chicago, Ill. Car-coupling	358,280	Feb. 22	2226	587	38	859
Kramer, John, West Perry, assignor of one-half to J. Long, McAlisterville, Pa. Car-coup- ling	366,779	July 19	1419	380	40	284
Kramer, Joseph P., West Branch, Mich. Bob-sled	367,716	Aug. 2	556	152	40	556
Krapf, Charles. (See Heck, Nathaniel J. M., assignor.)						
Kratz, Charles P. (See Kratz, William and C. P.)						
Kratz, William and C. P., Evansville, Ind. Self-heating sad-iron	368,954	Aug. 30	2331	620	40	930
Kraus, Jacob W., Sterling, Ohio. Cultivator	372,627	Nov. 1	509	139	41	567
Krausch, Theodore, North Evanston, Ill. Machine for pitching casks	357,323	Feb. 8	840	219	38	586
Krause, Albert, Buffalo, N. Y. Drilling rock	372,154	Oct. 25	2054	526	41	424
Krause, George E., Indianapolis, Ind. Sofa-bed	357,530	Feb. 8	1135	297	38	642
Krause, Horatio S. (See Gleich and Krause.)						
Krause, Otto H., assignor to F. O. Matthiessen & Wiechers Sugar Refining Company, Jer- sey City, N. J. Manufacturing double-crystallized sugar	372,030	Oct. 25	1867	.....	41	391
Krause, Roswell F., Chicago, Ill. Canopy-top for carriages	357,324	Feb. 8	841	219	38	586
Krauser, Cyrus, Leeper, Pa. Head-rest for coffins	368,721	Aug. 23	2005	530	40	857
Krausse, Anna L., administratrix. (See Page and Krausse.)						
Krausse, Emil B. (See Page and Krausse.)						
Kreemer, Henry M., Trenton, N. J. Artificial leg	360,446	Apr. 5	73	19	39	15
Krein, Franz. (See Snellbaker, William H. H., assignor.)						
Krein, Franz, St. Louis, Mo. Machine for attaching bands to whiffletrees	365,390	June 28	1739	{ 450 451 }	{ 39 }	1440
Krements, Joseph, New Albany, assignor of one-half to W. N. Escott, Jeffersonville, Ind. Photographic camera	362,978	May 17	1300	{ 344 345 }	{ 39 }	728
Krementz, George, Newark, N. J. Machine for making collar-buttons	372,683	Nov. 8	589	{ 160 161 }	{ 41 }	591
Krementz, Thomas H., Newark, N. J. Bracelet	369,452	Sept. 6	196	56	40	1069
Kremer, Carl A. M., Leipsic, Saxony, Germany. Umbrella, &c.	356,479	Jan. 25	1698	443	38	347
Kremer, Franklin W., assignor to Garfield Injector Company, Wadsworth, Ohio. Auto- matic locomotive-injector	374,975	Dec. 20	1184	308	41	1293
Krepps, Virgil A., New York, N. Y. Check-register and coin-counter	357,557	Feb. 8	1184	312	38	651
Krepps, Virgil A., New York, N. Y. Electrical mail-indicator	358,360	Feb. 22	2330	618	38	879
Kreps, Auguste, Antwerp, Belgium. Mechanical kiln-drying apparatus	366,672	July 19	1272	339	40	258
Kress, George R., Pittsburg, Pa. Interlocking coupling for lightning-rods	373,407	Nov. 15	1710	453	41	803
Kress, John, assignor of one-half to H. M. Haar, New York, N. Y. Horseshoe	361,635	Apr. 19	1780	461	39	350
Kretschmar, Carl, Gohlis, near Leipsic, Germany. Mechanical musical instrument	360,163	Mar. 29	2652	669	38	1426
Kretz, Edward, assignor to T. Kretz, Buffalo, N. Y. Cutting and canceling device	355,325	Jan. 4	47	13	38	10
Kretz, Theresa. (See Kretz, Edward, assignor.)						
Kreutzer, Ferdinand, New York, N. Y. Waterproofing compound	370,545	Sept. 27	1789	.....	40	1393
Krichbaum, George A., Youngstown, Ohio. Painter's striping-instrument	355,402	Jan. 4	145	38	38	30
Krickl, Philip, assignor to D. O. B. Ladd, Chicago, Ill. Slide-valve	363,750	May 24	2388	620	39	948
Kriebel, Hosea K., West Point, Pa. Regulator for steam-heaters	363,470	May 24	1979	516	39	869
Krieger, George F., Springfield, Ill. Fire-arm	368,924	Aug. 23	2286	608	40	913
Kriesel, William. (See Blodget, Henry G., assignor.)						
Krieser, J. Moritz, Brooklyn, assignor to Mystic Oil Company, New York, N. Y. Process of and apparatus for distilling petroleum	366,487	July 12	987	268	40	196
Krisher, John C. (See Payne and Krisher.)						
Kritch, Karl E., assignor of one-half to T. Maher, Cleveland, Ohio. Safety attachment for elevators	360,776	Apr. 5	538	139	39	101
Kroc, Joseph. (See Pelletier and Kroc.)						
Krom, Andréas L., Utrecht, Holland. Key-board for musical instruments	367,148	July 26	1916	517	40	385
Kromer, Otto. (See Keller, Jeremiah, assignor.)						
Kron, Rudolf, Unterstrass, near Zurich, Switzerland. Engine for cutting or beating, &c., paper-stuff	357,998	Feb. 15	1820	{ 478 479 }	{ 38 }	778
Kron, Rudolf, Gölzern, Saxony, Germany. Separating apparatus for paper-pulp, &c., suspended in liquids	365,343	June 21	1655	{ 432 433 }	{ 39 }	1413
Kroner, Barnard H., assignor of one-half to H. Grunder, Mount Sterling, Ill. Stove-polish	367,110	July 26	1860	.....	40	376
Kroness, John, and W. Wuest, Cincinnati, Ohio. Washing-machine	359,161	Mar. 8	1062	277	38	1107
Kroog, Johann, Halle-on-the-Saale, Prussia, Germany. Means for suspending plates and frames in filter-presses	364,827	June 14	899	237	39	1263
Kroog, Johann, Halle-on-the-Saale, Prussia, Germany. Compound filtering-plate	365,134	June 21	1360	360	39	1356
Kroog, Johann, Halle-on-the-Saale, Prussia, Germany. Means for packing the conduits in filter-presses	370,741	Sept. 27	2089	554	40	1448
Kroog, Johann, Halle-on-the-Saale, Prussia, Germany. Filter-press for use in producing homogeneous cakes	370,742	Sept. 27	2090	{ 554 555 }	{ 40 }	1448
Krueger, Charles, Wausau, Wis. Stump-puller	368,216	Aug. 16	1268	338	40	708

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Krueger, Julius, Columbus, Wis. Eaves-trough	358,936	Mar. 8	774	193	38	1051
Kruegermann, Friedrich, assignor of one-half to T. P. Hoban, Scranton, Pa. Cleat or rope-fastener	359,538	Mar. 15	1616	414	38	1216
Kruesi, John, Brooklyn, assignor to Edison Machine Works, Schenectady, N. Y. Junction-box for electric conductors	366,173	July 5	573	154	40	108
Kruesi, John, Brooklyn, assignor to Edison Machine Works, Schenectady, N. Y. Electrical conductor	366,174	July 5	574	154	40	108
Kruger, Edward H., Grayson, Ky. Rotary engine	374,543	Dec. 6	544	{ 141 142 }	{ 41 }	1151
Krum, Charles L., Chicago, Ill. Egg-case	375,363	Dec. 27	1708	449	41	1402
Krumm, Martin, Columbus, Ohio. Machine for straightening rods, &c	362,287	May 3	303	84	39	532
Kruse Check and Adding Machine Company. (See Koch, William, assignor.)						
Krutzsch, William, assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Meal-cake-molding box	361,879	Apr. 26	2146	{ 556 557 }	{ 39 }	423
Krutzsch, William, assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Water-ball breaker for oil-mills	375,165	Dec. 20	1453	380	41	1344
Kubach, Charles D., assignor of three-fourths to H. C. Chipman, Baltimore, Md. Hose-reel	362,450	May 3	532	148	39	577
Kuehn, George J., Delhi, Ohio. Fruit-picker	371,951	Oct. 25	1742	451	41	369
Kuehn, George W., assignor to Rapid Service Store Railway Company, Detroit, Mich. Store-service apparatus	371,952	Oct. 25	1743	451	41	369
Kuehnle, Matthew, St. Louis, Mo. Sliding shelf for cook-stoves	358,361	Feb. 22	2332	{ 618 619 }	{ 38 }	879
Kuhlman, Joseph F., Anamosa, Iowa. Washing-machine	358,400	Feb. 22	2385	634	38	889
Kuhn, Edmond, Brooklyn, N. Y. Stem-winding watch	357,210	Feb. 8	692	179	38	558
Kuhn, Edmond, Brooklyn, N. Y. Photographic time-shutter	362,518	May 10	631	{ 178 179 }	{ 39 }	600
Kuhn, Edmond, Brooklyn, N. Y. Clock	372,074	Oct. 25	1937	499	41	403
Kuhn, Henry, <i>et al.</i> (See Tonndorff, Charles H., assignor.)						
Kuhn, Henry, St. Louis, Mo. Vignetter	363,961	May 31	2704	{ 700 701 }	{ 39 }	1012
Kuhn, Henry, St. Louis, Mo. Vignetter	369,453	Sept. 6	197	56	40	1069
Kuhn, Henry, St. Louis, assignor to H. A. Hyatt, Kirkwood, Mo. Photographic-stamp-portrait sheet	366,224	July 12	648	176	40	130
Kuhn, Henry, St. Louis, assignor to H. A. Hyatt, Kirkwood, Mo. Photographic apparatus	366,225	July 12	649	{ 176 177 }	{ 40 }	131
Kubns, Benjamin, Dayton, Ohio. Corn-planter attachment	358,401	Feb. 22	2386	634	38	890
Kulp, Charles L. (See Kulp, Marion F., assignor.)						
Kulp, Marion F., assignor of one-half to C. L. Kulp, Chicago, Ill. Sheet-metal roofing	374,126	Nov. 29	2759	741	41	1025
Kunderd, Amos E., Corunna, Ind. Cultivator attachment	375,638	Dec. 27	2093	545	41	1475
Kundert, Edward T., Monroe, assignor of one-half to D. Steussy, Monticello, Wis. Eaves-trough hanger	356,046	Jan. 11	1071	282	38	216
Kundtz, Theodor, Cleveland, Ohio. Skeleton frame for drawers	362,288	May 3	304	84	39	533
Kundtz, Theodor, Cleveland, Ohio. Manufacturing inlaid rules	369,723	Sept. 13	566	154	40	1151
Kunhardt, David, Aachen, Prussia, Germany. Telegraph-key	368,342	Aug. 16	1455	388	40	745
Kunkel, Adam, assignor of one-half to E. Kaye, Phillipsburg, Pa. Gas-pressure regulator and cut-off	362,894	May 10	1174	314	39	698
Kunkel, Fred, and M. Van Sas; said Van Sas assignor to R. Preuss, Milwaukee, Wis. Folding woven-wire mattress	357,558	Feb. 8	1186	312	38	652
Kunkle, John C., Hoboken, N. J. Electric annunciator	360,447	Apr. 5	74	19	39	15
Kunkle, John C., Hoboken, N. J. Electric annunciator	360,448	Apr. 5	75	20	39	16
Kunkle, John C. F., Jersey Shore, Pa. Machine for laying gold-leaf	361,225	Apr. 12	1216	310	39	231
Kunze, Charles, Newark, N. J. Clasp for boxes	361,424	Apr. 19	1483	383	39	291
Kupfer, Charles A., Burlington, Iowa. Stove-drum	365,391	June 28	1741	451	39	1441
Kupferle, John C., St. Louis, Mo. Hydrant	364,180	May 31	3005	780	39	1070
Kupferle, Marcellus O., St. Louis, Mo. Faucet	371,509	Oct. 11	1095	285	41	223
Kuqua, Samuel J., <i>et al.</i> (See Adelsperger, Charles C., assignor.)						
Kurtis, John C. (See Kurtis, Joseph F. and J. C.)						
Kurtis, Joseph F., Springfield, Ohio, and J. C. Kurtis, Erie, Pa. Pillow-sham holder	358,459	Mar. 1	52	14	38	913
Kurtz, Jacob, Delano, Minn. Whiffletree attachment	355,326	Jan. 4	50	13	38	11
Kurtz, John G., Milton, Pa. Calculator	356,140	Jan. 18	1219	323	38	249
Kuster, Charles A., Brooklyn, N. Y., assignor, by mesne assignments, to Pianophone Company. Mechanical musical instrument	361,299	Apr. 19	1314	{ 337 338 }	{ 39 }	261
Kuster, Charles A., Brooklyn, N. Y., assignor, by mesne assignments, to Pianophone Company. Mechanical musical instrument	361,300	Apr. 19	1316	338	39	261
Kuster, Charles A., Brooklyn, N. Y., assignor, by mesne assignments, to Pianophone Company. Mechanical musical instrument	363,400	May 24	1868	491	39	848
Kutzkan, Emil, and E. A. Otto, San Francisco, Cal. Compound for wall decorations and signs	362,162	May 3	154		39	503
Kyle, Oscar N., Florence, Mass. Game apparatus	363,146	May 17	1532	{ 404 405 }	{ 39 }	774
Kyle, Robert J., New York, N. Y. Button and button-fastener	363,523	May 24	2060	535	39	886
Kyle, Robert J., New York, N. Y. Riveting device	375,677	Dec. 27	2150	559	41	1485
Kyle, Robert J., New York, N. Y., assignor of two-thirds to C. E. Van Vleck, Montclair, N. J., and J. L. Porter, New York, N. Y. Garment-supporter	359,616	Mar. 22	1769	449	38	1259
Kyte, John P. (See Paynter, Jacob L., assignor.)						
La Casse, Henry, Auburn, N. Y. Tricycle	372,031	Oct. 25	1868	{ 481 482 }	{ 41 }	391
La Clede Car Company. (See Sutton, William, assignor.)						
La Compagnie Française du Celluloid. (See Le Roy, Albert, assignor.)						
La Dow, Charles, Albany, N. Y. Horse hay-rake	355,539	Jan. 4	317	84, 85	38	64
La Dow, Charles, Albany, N. Y. Implement for agricultural purposes	360,310	Mar. 29	2858	728	38	1467
La Dow, Charles, Albany, N. Y. Disk-harrow	360,352	Mar. 29	2914	742	38	1476
La Dow, Charles, Albany, N. Y. Pulverizer	375,364	Dec. 27	1710	449	41	1403
La Dow, Charles, Albany, N. Y. Pulverizer	375,365	Dec. 27	1712	449	41	1403
La Dow, John, Denver, Colo. Baling-press	365,524	June 28	1941	505	39	1481
La Dow, John, assignor to Gregg & Co., Trumansburg, N. Y. Perpetual cotton and hay press	365,824	July 5	88	25, 26	40	19
La Dow, John, assignor to Gregg & Co., Trumansburg, N. Y. Baling-press	367,717	Aug. 2	556	{ 152 153 }	{ 40 }	556
La Dow, John, Denver, Colo., assignor to Gregg & Co., Trumansburg, N. Y. Baling-press	369,454	Sept. 6	198	56, 57	40	1070
La Dow, John, assignor to Gregg & Co., Trumansburg, N. Y. Baling-press	373,076	Nov. 15	1200	320	41	710
La Fayette, Peter D., Sr., Collinsville, assignor of one-half to P. D. La Fayette, Jr., Middletown, Conn. Window	373,238	Nov. 15	1459	384	41	756

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La Flèche, Zotique R., and J. A. Ledoux, Concordia, Kans. Mop-wringer and scrubbing-brush holder	375,166	Dec. 20	1454	380	41	1344
La Follette, Elery B., Flemington, W. Va. Boot-crimper	357,836	Feb. 15	1601	415	38	737
La Lone, Donald E., assignor to himself, J. Miles, and H. Dunn, Miles, Iowa. Car-coupling	367,216	July 26	2006	542	40	403
La Mothe, Bernard J., assignor to United States Rolling Stock Company, New York, N. Y. Metallic frame for railway-cars	368,343	Aug. 16	1456	388	40	745
La Roy, Lester H., assignor of two-thirds to G. Watkins and L. B. Laroy, Randolph, N. Y. Fire-escape	369,647	Sept. 6	466	130	40	1123
La Shells, Alfred F., Biggs, Cal. Revolving plow	356,284	Jan. 18	1413	{ 372 373 }	{ 38 }	286
Laass, Emil. (See Hey and Laass.)						
Laass, Emil, and G. W. Hey, Syracuse, N. Y., assignors to International Postal Supply Company of New York. Mail-stamping apparatus	356,228	Jan. 18	1334	{ 352 353 }	{ 38 }	270
Labar, Fred. (See Morris, Tisdell, and Labar.)						
Labre, Armand, Paris, France, assignor to Société A. Hutchinson & Cie. Holder or casing for billiard-chalk	363,898	May 31	2594	674	39	992
Lacey, Francis H., Atchison, Kans. Grain meter and register	355,828	Jan. 11	742	194	38	152
Lacey, Francis H., Atchison, Kans. Mast-arm for hanging electric street-lamps	368,955	Aug. 30	2333	620	40	930
Lacey, John A., Rural, Ind. Cockle-separator	359,162	Mar. 8	1063	277	38	1107
Lachler, John, assignor of one-half to F. A. Klick, Erie, Pa. Printer's quoin	363,471	May 24	1981	516	39	869
Lachner, Conrad, New York, N. Y. Feather trimming and making the same	356,141	Jan. 18	1220	324	38	249
Lacklin, Thomas, Truxton, Mo. Straddle-row plow or cultivator	365,609	June 28	2069	539	39	1505
Lackner, Frederick, assignor to T. Neely and E. and J. Bindley, Pittsburg, Pa. Nut-machine	355,456	Jan. 4	209	56	38	42
Laclaverie, Bertrand, assignor of one-fourth to H. Tremoulet, New Orleans, La. Disinfectant	361,636	Apr. 19	1781	.....	39	350
Lacy, William. (See Kent, Joseph, assignor.)						
Ladd, Dennis O. B. (See Krickl, Philip, assignor.)						
Ladd, Dennis O. B., Chicago, Ill. Governor for engines	363,651	May 24	2247	{ 581 582 }	{ 39 }	921
Ladd, Hermon W., Boston, Mass. Locomotive-engine	359,080	Mar. 8	959	246	38	1086
Ladd, Leonard E. (See Wharton, William H., assignor.)						
Ladd, Loren G., Pawtucket, R. I. Hoisting-bucket	369,798	Sept. 13	662	180	40	1169
Ladd, William A., Colfax, Wash. Ter. Car-coupling	364,421	June 7	299	82	39	1145
Lafever, Minard, Battle Creek, Mich. Straw-burning furnace	360,227	Mar. 29	2739	693	38	1443
Lafferty, Robert B., Gloucester, N. J. Centrifugal machine	364,941	June 14	1066	278	39	1294
Lafferty, Robert M., Davenport, Iowa. Valve	374,544	Dec. 6	545	142	41	1152
Laforge, George M., assignor of two-thirds to C. A. Wustum and R. R. Crowe, Billings, Mont. Ter. Ratchet-brace	364,422	June 7	300	83	39	1145
Laganke, Charles F. (See Garner and Laganke.)						
Lagerlef, Frank, Cambridge, Ill. Hame and hame-tug attachment	374,841	Dec. 13	961	251	41	1243
Lagerman, Alexander, Jönköping, Sweden, assignor to Lagerman Typotheter Company, New York, N. Y. Machine for setting type	362,751	May 10	975	{ 264 265 266 267 268 }	{ 39 }	662
Lagerman Typotheter Company. (See Lagerman, Alexander, assignor.)						
Lahey, Timothy, et al. (See McHale, John, assignor.)						
Lahmeyer, Wilhelm, Aachen, Prussia, Germany. Dynamo-electric machine	370,794	Oct. 4	61	16	41	14
Laidlaw, Alexander, Orillia, Ontario, Canada. Grain-cleaning machine	365,080	June 21	1274	336	39	1342
Laidlaw, William A., Cherokee, Kans. Hay-press	359,081	Mar. 8	960	246	38	1087
Laidlaw, William A., Cherokee, Kans. Baling-press	365,187	June 21	1428	{ 376 377 }	{ 39 }	1370
Laird, Bush F., Ocean Springs, Miss. Car-coupling	357,011	Feb. 1	374	100	38	492
Lake, Ezra B., Camden, N. J. Vehicle-spring	356,649	Jan. 25	1938	508	38	392
Lake, Ezra B., Camden, N. J. Ball-bearing	366,117	July 5	502	135	40	95
Lake Huron Stone Company. (See Lewis, Spencer, assignor.)						
Lake, Jesse S., Pleasantville, N. J. Cable tramway	368,291	Aug. 16	1393	368	40	732
Lake, John. (See Warner, Simon P., assignor.)						
Lake, Laban B., and E. Sawyer; said Sawyer assignor to L. M. Cory, Toledo, Ohio. Adjustable holder for books, &c	360,965	Apr. 12	821	210	39	158
Lake, Simon, Ocean City, N. J. Mechanical movement	363,472	May 24	1982	517	39	870
Lakin, James A., Westfield, Mass. Compensating mechanism for regulating electric-light carbons	362,289	May 3	306	84	39	533
Lalime, Eusebe. (See Short and Lalime.)						
Lalime, Eusebe, Malone, N. Y. Car-coupling	362,221	May 3	227	66	39	517
Lamb, Elijah, Camden, N. J. Suspender-end	362,290	May 3	307	85	39	533
Lamb, George L. (See Chamberlain and Lamb.)						
Lamb, Isaac W., Jackson, Mich. Knitting-machine	355,938	Jan. 11	919	{ 240 241 }	{ 38 }	187
Lamb, Noyes D., Norwich, Conn. Device for decapitating poultry	368,403	Aug. 16	1533	409	40	761
Lamb, Restore B., et al. (See Taylor, Charles R., assignor.)						
Lamb, Salem T. (See Harrod and Lamb.)						
Lamb, Salem T., assignor of three-fourths to A. T. Harrell and H. C. Parker, New Albany, Ind. Burglar-alarm	368,095	Aug. 9	1098	291	40	668
Lambdin, Carvosso, Wilmington, N. C. Electric signal system	360,025	Mar. 29	2412	611	38	1383
Lambert, Emil L., New York, N. Y. Button	374,258	Dec. 6	124	32	41	1071
Lambert, Frank. (See Thomson and Lambert.)						
Lambert, Frank, assignor to J. Thomson, Brooklyn, N. Y. Register	374,976	Dec. 20	1185	309	41	1294
Lambert, Henry E., Logansport, Ind. Tool for clinching fence-wires. (Reissue)	10,799	Jan. 18	1632	427	38	327
Lambert, Henry E., Mount Gilead, Ohio. Fence-post	374,684	Dec. 13	732	192	41	1199
Lambert, Horace B., Chelsea, Mass. Letter-box	357,012	Feb. 1	376	100	38	492
Lambert, Horace B., Chelsea, Mass. Clothes-horse	370,951	Oct. 4	315	77	41	62
Lambert, Thomson W. (See Murray, Charles E., assignor.)						
Lambert, William F., San Francisco, Cal. Evaporator	357,775	Feb. 15	1526	397	38	723
Lambertson, Spafford W., assignor of two-thirds to W. P. and J. W. Cleaver, Newark, N. J. Lamp-burner	371,894	Oct. 18	1665	429	41	345
Lamberty, Charles, Brooklyn, N. Y. Burglar-alarm	357,837	Feb. 15	1602	415	38	738
Lambing, Isaac P., Ione, Cal. Centrifugal-pump system	367,918	Aug. 9	846	229	40	621
Lambing, Isaac P., Ione, Cal. Centrifugal pump	367,919	Aug. 9	848	229	40	621
Lambkin, Charles H., New York, N. Y. Folding chair	370,265	Sept. 20	1371	368	40	1308
Lamotte, Alfred, Brussels, Belgium. Recovering tin from tin-plate and other materials	366,118	July 5	503	136	40	95
Lamont, John, Brooklyn, assignor to J. Bulova, New York, N. Y. Jewelry	367,414	Aug. 2	81	22	40	466

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Lamoreux, Fred W., Liberty, N. Y. Buckboard-wagon.....	359,791	Mar. 22	2029	514	38	1306
Lamoreux, Isaac H., assignor of one-half to R. E. Werkman, Holland, Mich. Fanning-mill	358,281	Feb. 22	2228	587	38	859
Lampert & Co. (See White, Samuel K., assignor.)						
Lamport, Albert G. (See Lewis and Lamport.)						
Lampson, Forest M., A. M. Laning, and G. W. Hogben, Ripon, Wis. Plaster-fastener...	356,945	Feb. 1	277	77	38	472
Lampson, Forest M., and G. W. Hogben, assignors to Ripon Wire Door and Window Screen Company, Ripon, Wis. Adjustable window-screen	361,825	Apr. 26	2056	535	39	406
Lamson Store Service Company. (See Geering, E. Fred., assignor)						
Lamson Store Service Company. (See Westerlund, Aaron F., assignor.)						
Lanahan, Thomas, assignor to himself, G. W. Roberts, and C. H. Rice, Louisville, Ky. Automatic valve for air-brakes	371,078	Oct. 4	491	123	41	97
Lanahan, Thomas, and G. W. Roberts, assignors to themselves and C. H. Rice, Louisville, Ky. Heating railway-cars	367,347	July 26	2211	593	40	441
Lancaster, Charles B. (See Kelley, Charles H., assignor.)						
Lancaster, Charles F., Petoskey, Mich. Appliance for holding sheet-music.....	369,534	Sept. 6	302	84	40	1092
Lance, William L., Sr., et al. (See Scoville, Thaddeus S., assignor.)						
Land, Charles H., Detroit, Mich. Filling teeth	375,167	Dec. 20	1455	380	41	1344
Landas, Clarence L. (See Landas, Edward P., assignor.)						
Landas, Edward P., assignor to C. L. Landas, Titusville, Pa. Plunger for oil-well pumps ..	356,946	Feb. 1	278	77	38	472
Landenberger, Frederick, assignor to H. Maul & Co., New York, N. Y. Chenille	368,722	Aug. 23	2006	531	40	858
Landenberger, Frederick, assignor to H. Maul & Co., New York, N. Y. Machine for making chenille	370,148	Sept. 20	1212	322	40	1278
Landenberger, George W., assignor to C. M. McCloud, Philadelphia, Pa. Christmas-tree ornament	362,017	Apr. 26	2346	611	39	458
Lander, George, assignor of one-half to H. Schad, Brooklyn, N. Y. Spool-holder	372,917	Nov. 8	957	259	41	656
Landers, Frary & Clark. (See Gérard, John, assignor.)						
Landers, Harry G., Protom, Mo. Hide-stretcher	357,609	Feb. 15	1264	332	38	676
Landgraf, Casper, Chicago, Ill. Music-leaf turner	358,679	Mar. 1	387	93	38	975
Landgraf, Frederick, Washington, D. C. Fire-escape	356,650	Jan. 25	1939	508	38	393
Landin, John. (See Aborn and Landin.)						
Landis, Abraham B., Waynesborough, Pa. Feed mechanism for saw-mills	357,087	Feb. 1	485	129	38	512
Landis, Abraham B., Waynesborough, Pa. Set-works for saw-mills	359,264	Mar. 15	1203	314	38	1140
Landis, Abraham B., Waynesborough, Pa. Saw-mill dog	363,831	May 31	2507	651	39	976
Landis, Abraham B., Waynesborough, Pa. Valve-gear	368,771	Aug. 23	2068	548	40	870
Landis, David N., Jr. (See Kendig and Landis.)						
Landis, Ezra F., Lancaster, Pa. Steam-radiator	371,598	Oct. 18	1215	317	41	254
Landis, Frank F., Waynesborough, Pa. Traction-engine	355,939	Jan. 11	924	241	38	187
Landis, Frank F., Waynesborough, Pa. Traction-engine	366,226	July 12	651	177	40	131
Landis, Frank F., Waynesborough, Pa. Traction-wheel	367,303	July 26	2146	577	40	429
Landis, Frank F., Waynesborough, Pa. Traction-engine	368,772	Aug. 23	2069	548	40	870
Landis, Frank F., Waynesborough, Pa. Gang-plow	372,854	Nov. 8	866	231	41	639
Landis, Frank F., Waynesborough, Pa. Steam-boiler	372,855	Nov. 8	868	232		
Landis, Israel L. (See Iske, Anthony, assignor.)						
Landis, Israel L., Lancaster, Pa. Fence	360,703	Apr. 5	441	112	39	82
Landis, Israel L., Lancaster, Pa. Fence-post	361,880	Apr. 26	2148	557	39	423
Landis, Israel L., Lancaster, Pa. Fence-post	367,641	Aug. 2	420	117	40	531
Landis, Israel L., Lancaster, Pa. Fastening device for gutters and pavements	374,685	Dec. 13	734	192	41	1200
Landis, Israel L., A. and A. Iske, Lancaster, Pa.; said A. and A. Iske assignors to said Landis. Combined hay rake and tedder	374,795	Dec. 13	893	234	41	1230
Landmann, Julius C., Eureka, Nev. Watch-case	357,395	Feb. 8	938	247	38	605
Landvoigt, Edward, and B. C. Fenwick; said Fenwick assignor, by mesne assignments, to W. A. Kimmel, Washington, D. C. Machine for mixing mortar	370,629	Sept. 27	1922	510	40	1418
Lane, A. J., et al. (See Eastman, William H., assignor.)						
Lane, Adoniram J., et al. (See Eastman, William H., assignor.)						
Lane, Almeron M., Meriden, Conn. Staking-tool	374,365	Dec. 6	281	75	41	1099
Lane, America, Taunton, Mass. Holdback	363,473	May 24	1983	517	39	870
Lane & Bodley Company. (See Stanwood, James B., assignor.)						
Lane, Cyrus D., Batavia, N. Y. Earth-closet	362,637	May 10	816	223	39	632
Lane, Edward M., Middletown, N. Y. Car-coupling	371,953	Oct. 25	1743	452	41	369
Lane, Fernando G., and C. S. Acheson; said Acheson assignor to said Lane and L. L. Abbott, San Antonio, Tex. Kitchen-cabinet	362,388	May 3	442	122	39	561
Lane, Fred H., Cleveland, Ohio. Clamp for stretching or tenting cloth, &c	361,014	Apr. 12	897	226	39	170
Lane, George M., Asbury Park, N. J. Telegraph key and sounder	372,155	Oct. 25	2055	526	41	425
Lane, Henry M., Cincinnati, Ohio. Cable-railway construction	371,600	Oct. 18	1220	318	41	256
Lane, Henry M., Cincinnati, Ohio. Horizontal-curve construction for cable railways	371,601	Oct. 18	1222	318	41	256
Lane, Henry M., assignor to Lane National Cable Railway Construction Company, Cincinnati, Ohio. Grip mechanism for cable railways	371,599	Oct. 18	1216	317	41	255
Lane, John C., Sprague, Wash. Ter. Bridle-rod for railways	358,981	Mar. 8	834	210		
Lane National Cable Railway Construction Company. (See Lane, Henry M., assignor.)						
Lane, Samuel G., Boston, Mass. Furnace	362,979	May 17	1301	345	39	728
Lane, Sidney W., Wesley, Md. Safety attachment for druggists' bottles and jars	367,642	Aug. 2	421	118	40	531
Lane, William, and A. Doney, Pen Argyl, Pa. Baby-walker	363,899	May 31	2595	675	39	992
Lane, William, and A. Doney, Pen Argyl, Pa. Baby-walker	368,477	Aug. 16	1653	441	40	783
Lane, William J., Poughkeepsie, N. Y. Door-hanger	368,478	Aug. 16	1654	441	40	783
Lane, William J., Poughkeepsie, assignor of one-half to W. H. Field, Port Chester, N. Y. Shaft-hanger	367,304	July 26	2147	578	40	429
Lane, William M., et al. (See Lane, William P., assignor.)						
Lane, William P., Philadelphia, Pa., assignor of two-thirds to A. M. Sutherland, Elizabeth, N. J., and W. M. Lane, Lancaster, Pa. Manufacturing gas	356,720	Jan. 25	2026	533	38	409
Lang, John C., Washington, D. C., assignor to L. Field, Rochester, N. Y. Document-case or record-cabinet, &c	359,451	Mar. 15	1479	378	38	1191
Lang, John W. (See Coleman, Ambrose B., assignor.)						
Lang, Philip J. (See Snoddy and Lang.)						
Lang, Samuel G., assignor of one-half to O. H. Wilt, Sandersville, Ga. Roller-gage for saw-mills	372,809	Nov. 8	806	216	41	629
Lang, William, Brooklyn, N. Y. Watch-case bezel	365,825	July 5	91	26	40	20
Lang, William, Brooklyn, N. Y. Manufacturing watch-cases	365,826	July 5	93	26	40	20
Langan, James. (See Dubey, Edward A., assignor.)						
Langdon, Alfred, assignor of one-third to H. C. Inman, Jefferson City, Mo. Apparatus for making gas	360,533	Apr. 5	204	50	39	40
Langdon, Arthur F., Hartford, Conn. Garment-protector	373,897	Nov. 29	2438	654	41	962
Langdon, Levi, Stockton, Cal. Adjustment for spring-scales	360,309	Mar. 29	2857	727	38	1466

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Langdon, Robert B. (See Garben, Adolph F. C., assignor.)						
Langdon, Robert B. (See Garben, Adolph F. C., assignor.) (Reissue.)						
Lange, Philip. (See Byllesby and Lange.)						
Lange, Philip. (See Pope, Byllesby, and Lange.)						
Lange, Philip, New York, N. Y., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Electric-current indicator	362,451	May 3	533	148	39	577
Lange, Philip, assignor to G. Westinghouse, Jr., Pittsburg, Pa. Electric switch	366,407	July 12	890	240	40	176
Lange, Philip, assignor to G. Westinghouse, Jr., Pittsburg, Pa. Core for electro-magnets and method of forming the same.	366,408	July 12	891	240	40	176
Lange, Philip, assignor to G. Westinghouse, Jr., Pittsburg, Pa. Electric galvanometer	366,409	July 12	892	240	40	177
Lange, Philip, assignor to Westinghouse Electric Company, Pittsburg, Pa. Electric coupling device.	374,843	Dec. 13	962	251	41	1243
Lange, Philip, Pittsburg, and O. B. Shallenberger, Rochester, assignors to G. Westinghouse, Jr., Pittsburg, Pa. Electric galvanometer	366,410	July 12	893	{ 240 241 }	{ 40 40 }	177
Lange, Philip, Pittsburg, and O. B. Shallenberger, Rochester, assignors to Westinghouse Electric Company, Pittsburg, Pa. Safety-strip for electric circuits	374,842	Dec. 13	961	251	41	1243
Langenberg, Julius F., New York, N. Y. Casing for spittoons	356,252	Jan. 18	1365	360	38	277
Langford, George W., Eylar, Ill. Clothes-rack	375,639	Dec. 27	2094	545	41	1476
Langill, Alexander D., assignor of two-thirds to M. Van Buren, Denver, Colo. Shovel	368,597	Aug. 23	1816	483	40	823
Langlais, Archie, Chicago, Ill., and P. English, Woodstock, Ontario, Canada. Gas-meter	360,026	Mar. 29	2413	{ 611 612 }	{ 38 38 }	1384
Langles, Justin J., New Orleans, La. Continuous dough-press	375,168	Dec. 20	1457	381	41	1345
Langley Cotton Harvester Company of New York City. (See Langley, William L., assignor.)						
Langley, William L., Newark, N. J., assignor to Langley Cotton Harvester Company of New York City. Cotton-harvester	372,918	Nov. 8	957	{ 259 260 }	{ 41 41 }	656
Langley, William L., Newark, N. J., assignor to Langley Cotton Harvester Company of New York City. Picker-stem for cotton-harvesters	372,919	Nov. 8	960	261	41	656
Langlois, Louis P., Rochester, N. Y. Governor for engines	361,067	Apr. 12	967	245	39	184
Langstaff, James, and S. Watson, Paterson, N. J. Bung	375,076	Dec. 20	1322	345	41	1318
Langston, Thomas, Meriden, Conn. Lamp	360,704	Apr. 5	441	113	39	82
Langworthy, Oliver B. (See Maxson, Cassius M., assignor.)						
Laning, Alpheus M. (See Lampson, Laning, and Hogben.)						
Laning, Jay F., assignor to Laning Printing Company, Norwalk, Ohio. Ticket	372,156	Oct. 25	2056	526	41	425
Laning Printing Company. (See Laning, Jay F., assignor.)						
Lansing, Andrew J., Ionia, Mich. Stall-floor	360,452	Apr. 5	81	21	39	16
Lanston, Tolbert, assignor to Lanston Type Machine Company, Washington, D. C. Producing justified lines of type	364,521	June 7	439	118	39	1171
Lanston, Tolbert, assignor to Lanston Type Machine Company, Washington, D. C. Producing justified lines of type	364,522	June 7	441	119	39	1171
Lanston, Tolbert, assignor to Lanston Type Machine Company, Washington, D. C. Producing justified lines of type	364,523	June 7	442	119	39	1171
Lanston, Tolbert, assignor to Lanston Type Machine Company, Washington, D. C. Form of type	364,524	June 7	443	119 119 120 121 122 123 124 125	39	1172
Lanston, Tolbert, assignor to Lanston Type Machine Company, Washington, D. C. Type-forming and composing machine	364,525	June 7	444	{ 122 123 124 125 }	{ 39 39 }	1172
Lanston Type Machine Company. (See Lanston, Tolbert, assignor.)						
Lant, William E., Lancaster, Pa. Shears	356,253	Jan. 18	1365	361	38	277
Lantern Globe Company. (See Barnes, George B., assignor.)						
Lantt, Tilton, assignor to S. S. Phillips, Ilion, N. Y. Wrench	361,704	Apr. 26	1886	488	39	376
Lapage, Richard H., Bank Chambers, New Oxford Street, county of Middlesex, England. Brake apparatus	360,228	Mar. 29	2740	{ 694 695 }	{ 38 38 }	1443
Lapage, Richard H., Bank Chambers, New Oxford Street, county of Middlesex, England. Pipe-coupling	360,229	Mar. 29	2745	695	38	1444
Lapage, Richard H., Bank Chambers, New Oxford Street, county of Middlesex, England. Effecting locomotion on steep inclines	360,230	Mar. 29	2745	696	38	1444
Lapham, Joseph H. and O. T., Cleveland, Ohio. Wash-board plate	357,211	Feb. 8	694	179	38	559
Lapham, Owen T. (See Lapham, Joseph H. and O. T.)						
Lapoint, Martin. (See Bradshaw and Lapoint.)						
Lapointe, Alfred, Montreal, Quebec, Canada. Portable scaffold	374,481	Dec. 6	445	115	41	1131
Lapointe, Joseph N., Waterbury, Conn. Machine for polishing pinion-leaves	371,847	Oct. 18	1585	{ 409 410 }	{ 41 41 }	330
Lapsley, J. W., et al. (See Wright, William A., assignor.)						
Lapworth, William, East Hampton, assignor to Hopedale Elastic Fabric Company, Hopedale, Mass. Elastic or corded fabric	360,449	Apr. 5	77	20	39	16
Lapworth, William, East Hampton, assignor to Hopedale Elastic Fabric Company, Hopedale, Mass. Elastic or corded fabric	360,450	Apr. 5	78	20	39	16
Laraway, Elbert D., Hartford, and E. Bridge, Hazardville, Conn., assignors, by mesne assignments, to themselves and G. W. Laraway, Boston, Mass. Manufacture of printing blocks or types	355,327	Jan. 4	51	14	38	11
Laraway, Elbert D., Hartford, and E. Bridge, Hazardville, Conn., assignors, by mesne assignments, to themselves and G. W. Laraway, Boston, Mass. Manufacture of type	355,768	Jan. 11	650	170	38	137
Laraway, George W. (See Laraway and Bridge, assignors.)						
Lard, Selden B., Waterville, Kans. Rowing attachment for boats	365,610	June 28	2069	539	39	1505
Larder, William. (See Perkins, Frank P., assignor.)						
Larger, Felix C., Chicago, Ill. Chuck	371,954	Oct. 25	1744	452	41	370
Larimer, William H., Terre Haute, Ind. Drill for mining purposes	365,925	July 5	242	64	40	47
Larish, Joseph W., Buffalo, N. Y., assignor to Baltimore and Ohio Telegraph Company, Baltimore, Md. Calling apparatus for telegraph-circuits	361,365	Apr. 19	1406	362	39	277
Larish, Joseph W., Buffalo, N. Y., and W. Maver, Jr., Jersey City, N. J., assignors to Baltimore and Ohio Telegraph Company, Baltimore, Md. Duplex telegraph	361,364	Apr. 19	1404	362	39	277
Larkin, George, Seymour, Wis. Fire-escape	356,591	Jan. 25	1850	486	38	376
Larkin, John C., assignor to A. L. and W. G. Brown, E. Ray, Whitefield, and O. Ray, Lancaster, N. H. Car-brake	368,838	Aug. 23	2160	572	40	888
Larkin, Patrick, Waseca, Minn. Track-jack	373,744	Nov. 22	2210	591	41	913
Laroy, Levi B., et al. (See La Roy, Lester H., assignor.)						
Larrabee, Charles C., Bath, Me. Chafe-iron for vehicles	366,227	July 12	654	178	40	131
Larrabee, Charles S., et al. (See Andres, Albert, assignor.)						
Larrabee, Thomas W., Carrollton, Ind. Drain-pipe	373,077	Nov. 15	1203	320	41	711

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Larsen, Lars, Omaha, Nebr. Axle-box.....	371,848	Oct. 18	1589	410	41	331
Larsh, Mireus F., Des Moines, Iowa. Guide for band-saws.....	365,441	June 28	1813	472	39	1454
Larson, August, Chicago, Ill. Necktie-fastener.....	371,079	Oct. 4	493	124	41	97
Larwill, John S. (See Lomont, Francois T., assignor.)						
Lasack, Adolf, Oxford Junction, Iowa. Hay-loader.....	356,541	Jan. 25	1779	463	38	362
Lasch, Carl L., Rendsitz-Leipsic, Saxony, Germany. Apparatus for binding books with metallic staples.....	364,526	June 7	464	125	39	1175
Lash, Horace W. (See Park, Aikin, and Lash.)						
Lash, John F., Toronto, Ontario, Canada. Metallic pigeon-hole case.....	360,597	Apr. 5	300	73	39	57
Lash, John S., Summit Station, Pa. Automatic coupling device for connecting heat or power conveying pipes of railway-cars.....	364,527	June 7	466	126	39	1175
Lasher, Lemuel A., Napa, Cal. Trace and whiffletree guard.....	369,064	Aug. 30	2489	661	40	961
Lasher, Morgan E., Champaign, Ill. Loop for harness.....	361,531	Apr. 19	1619	419	39	319
Lasher, Morgan E., and J. V. Forrester, Champaign, Ill. Hame-tug.....	359,871	Mar. 22	2160	545	38	1330
Lasor, Elizabeth S., administratrix. (See Lasor, Sanford W.)						
Lasor, Sanford W., deceased; E. S. Lasor administratrix and assignor to C. Chambers, Jr., Philadelphia, Pa. Cut-off-wire cleaner for brick-machines.....	371,267	Oct. 11	757	194	41	156
Lasswell, Grace H., Normal, Ill. Skirt and stocking protector.....	369,535	Sept. 6	304	84	40	1092
Latcher, John W., Edinburg, N. Y. Machine for cutting irregular-shaped openings.....	368,723	Aug. 23	2007	531	40	858
Latham, Albert, Waltham, Mass. Counterbore, reamer, or countersink.....	370,484	Sept. 27	1699	451	40	1376
Latham, Hiram P., Denver, assignor of one-half to D. Leedy, Hygiene, Colo. Cider-press.....	364,264	June 7	87	25	39	1105
Lathrop, Austin. (See Bragg, Frederick S., assignor.)						
Lathrop, Elias L. (See Poulson and Lathrop.)						
Lathrop, James E., Kewaunee, Wis. Label-holder.....	359,265	Mar. 15	1205	314	38	1140
Lathrop, Joseph, Chicago, Ill., and A. Tyrrell, Kendal, Mich. Pulley.....	367,984	Aug. 9	944	255	40	639
Lathrop, Kirke E., Afton, Iowa. Loading and unloading apparatus.....	358,558	Mar. 1	223	51	38	945
Lathrop, S. Park, Montclair, N. J. Lubricator.....	374,977	Dec. 20	1187	309	41	1294
Lathrop, S. Park, Montclair, N. J. Gage-cock.....	374,978	Dec. 20	1188	309	41	1294
Lathrop, S. Park, Montclair, N. J. Lubricating oil-cup.....	374,979	Dec. 20	1190	309	41	1294
Latimer, Harry L., Cranford, N. J., assignor of one-half to E. G. Soltmann, New York, N. Y. Draftsman's triangle.....	365,479	June 28	1865	484	39	1464
Latschaw, Jacob B., Durand, Wis. Track-raiser.....	362,163	May 3	154	45	39	503
Latshaw, John and J. H.; said John Latshaw assignor to W. C. Whitehead, Indianapolis, Ind. Sand-molding machine.....	364,355	June 7	203	56	39	1127
Latshaw, John H. (See Latshaw, John and J. H.)						
Latshaw, John H. (See Whitehead and Teetor, assignors.)						
Latta, Adrian C., et al. (See Latta, Emmitt G., assignor.)						
Latta, Emmitt G., Friendship, N. Y., assignor, by mesne assignments, to Pope Manufacturing Company, Portland, Me. Velocipede.....	360,101	Mar. 29	2542	{ 647 648 }	{ 38 }	1408
Latta, Emmitt G., assignor of two-thirds to A. C. Latta, Friendship, and H. D. Blakeslee, Buffalo, N. Y. Hame.....	372,377	Nov. 1	139	41	41	496
Latulip, Frederick, Syracuse, assignor of one-half to T. W. Meacham, Onondaga, N. Y. Spring for rockers.....	355,769	Jan. 11	651	170	38	137
Laubach, Henry H. (See Schmidt, Theodore, assignor.)						
Laubach & Iddings. (See Schmidt, Theodore F. W., assignor.)						
Lauback, Isaac S. (See Seavey and Lauback.)						
Laube, Godfried, Huron, Dak. Ter. Hay-burner.....	371,332	Oct. 11	842	216	41	173
Laube, Godfried, and O. R. Smith, Huron, Dak. Ter. Washing-machine.....	356,000	Jan. 11	1008	265	38	204
Laube, Joseph M., Brodhead, Wis. Stove.....	371,465	Oct. 11	1029	268	41	209
Laude, Julius, La Crosse, Wis. Hoisting-machine.....	366,488	July 12	988	{ 268 269 270 }	{ 40 }	196
Lauder, George, Pittsburg, Pa. Coal and ore jigger.....	364,265	June 7	88	25	39	1106
Lauder, George, Pittsburg, Pa. Elevator-chain.....	375,366	Dec. 27	1714	449	41	1404
Laufenburg, Michael N., San Francisco, assignor of one-half to W. D. Nelson, Traver, Cal. Plow-standard.....	374,686	Dec. 13	736	193	41	1200
Laufman, Philip H., et al. (See Ryan, Luke, assignor.)						
Laugenheim, Frederick D. (See Sommer, Adolf, assignor.)						
Laughery, John A., Denison, Mo. Churn.....	357,013	Feb. 1	378	101	38	492
Laughlin, David F., and C. F. Leslie, Clyde, Kans. Hay-stack binder.....	369,251	Aug. 30	2723	724	40	1008
Laughlin, Frank. (See Laughlin and Thomas, assignors.)						
Laughlin, George A., et al. (See Mather, Joseph S., assignor.)						
Laughlin, John J. (See Sands, Augustine, assignor.)						
Laughlin, Owen, and W. H. Thomas, assignors of one-third to F. Laughlin, Mount Sterling, Ky. Riding-saddle.....	370,266	Sept. 20	1372	368	40	1308
Laughlin, Samuel J., Guelph, Ontario, Canada. Organ-pedal.....	363,652	May 24	2248	582	39	921
Lauhoff, Joseph, Detroit, Mich. Mechanical telephone.....	363,249	May 17	1665	436	39	801
Lauhoff, Joseph, Detroit, Mich. Mechanical telephone.....	365,525	June 28	1943	506	39	1481
Launer, Charles, assignor of one-half to J. A. Carr, Minneapolis, Minn. Combination-lock.....	370,878	Oct. 4	187	49	41	37
Laurean, Louis G., assignor to Gordon, Strobel & Laurean, Philadelphia, Pa. Converter.....	358,559	Mar. 1	224	52	38	945
Laurean, Louis G., assignor to Gordon, Strobel & Laurean, Philadelphia, Pa. Regenerative furnace.....	362,018	Apr. 26	2346	612	39	458
Laurencot, Joseph B. (See Dreux, Alfred A., assignor.)						
Lauster, David, Denver, Colo. Combination-tool.....	358,862	Mar. 8	666	166	38	1031
Lauth, B. C., et al. (See McCarty, William F. M., assignor.)						
Lauver, M. W., et al. (See Coats and Jay, assignors.)						
Laval, Constant, Kansas City, Mo. Silvering glass for manufacture of mirrors.....	368,839	Aug. 23	2161	573	40	888
Laval, Constant, Kansas City, Mo. Apparatus for silvering glass in the manufacture of mirrors.....	375,640	Dec. 27	2095	545	41	1476
Lavercombe, Frederick A., Covington, Ky. Lamp.....	356,480	Jan. 25	1699	444	38	347
Lavery, Richard, Boston, Mass. Hawse and deck-pipe stopper.....	360,164	Mar. 29	2653	670	38	1426
Lavigne, Joseph P., assignor to J. Halliwell, New Haven, Conn. Combined presser-foot and attachment-holder.....	359,452	Mar. 15	1481	379	38	1191
Lavouche, Isaac, Jr. (See Buckley, Thomas, assignor.)						
Law, Jesse L., Jr., New York, N. Y. Packing.....	374,796	Dec. 13	896	235	41	1231
Law, John, Madelia, Minn. Hay-sling.....	374,192	Dec. 6	39	10	41	1054
Law, William H. (See Hannigan and Miller, assignors.)						
Lawler, Albert B. (See Scott, Alexander, assignor.)						
Lawler, Isaac F. (See Boland, John, assignor.)						
Lawler, James, Prairie du Chien, Wis. Railway-track.....	357,396	Feb. 8	939	247	38	605
Lawler, James J., Scranton, Pa. Gas-burner-tip cleaner.....	374,075	Nov. 29	2688	722	41	1012
Lawless, John H., Jersey City, N. J. Plumber's force-pump.....	357,717	Feb. 15	1425	375	38	705
Lawlor, Michael J., Poughkeepsie, N. Y. Dumb-waiter.....	360,027	Mar. 29	2414	612	38	1384

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Lawrence, Arthur B., and J. S. Batchelder, South Ashburnham, assignors of one-third to H. Matthews, Ashburnham Depot, Mass. Convertible chair	365,344	June 21	1656	433	39	1413
Lawrence, Benjamin, assignor to L. Lawrence, New York, N. Y. Pen-holder	365,827	July 5	95	26	40	20
Lawrence, Benjamin, assignor to L. Lawrence, New York, N. Y. Letter-file	369,065	Aug. 30	2490	661	40	961
Lawrence, Cook C., Monroe, Wis. Carriage top	363,147	May 17	1533	405	39	775
Lawrence, Hiram, Salem, Oreg. Washing-machine	366,411	July 12	894	241	40	177
Lawrence, John H., Sterling, Ill. Door-hanger	363,148	May 17	1533	405	39	775
Lawrence, Joseph S., <i>et al.</i> (See Gray and Chastain, assignors.)						
Lawrence, Louis P., Passaic, N. J., assignor to Lawrence Railway Brake Company, New York, N. Y. Locomotive-brake	371,602	Oct. 18	1224	319	41	257
Lawrence, Louis P., Passaic, N. J., assignor to Lawrence Railway Brake Company, New York, N. Y. Vacuum-brake for railway-cars	371,603	Oct. 18	1226	319	41	257
Lawrence, Louis P., Passaic, N. J., assignor to Lawrence Railway Brake Company, New York, N. Y. Car-brake	371,604	Oct. 18	1227	320	41	258
Lawrence, Louis P., Passaic, N. J., assignor to Lawrence Railway Brake Company, New York, N. Y. Brake saddle and shoe	372,810	Nov. 8	808	216	41	629
Lawrence, Louisa. (See Lawrence, Benjamin, assignor.)						
Lawrence Railway Brake Company. (See Lawrence, Louis P., assignor.)						
Lawrence, Samuel M., <i>et al.</i> (See Stewart, Homer, assignor.)						
Lawrence, Walter M., <i>et al.</i> (See Stewart, Homer, assignor.)						
Lawrence, William, Brooklyn, N. Y. Necktie	363,653	May 24	2249	583	39	922
Lawrence, William A., assignor to W. B. Brokaw, Newburg, N. Y. Shirt	356,947	Feb. 1	279	77	38	473
Lawrence, William S., Kalamazoo, Mich. Spring-tooth harrow	359,539	Mar. 15	1616	414	38	1216
Lawrence, Willis H. (See McEwen and Lawrence.)						
Lawshe, Spencer R. (See Patee and Lawshe.)						
Lawson, David T., Jersey City, N. J., assignor to Seaboard and Interior Company, New York, N. Y. Process of and apparatus for disinfecting	360,893	Apr. 12	708	{ 187 188 }	{ 39 }	138
Lawson, William H. (See Shirk, Peter E., assignor.)						
Lawton, David, Racine, Wis. Straw-cutter	372,157	Oct. 25	2057	526	41	425
Lawton, Joseph H., Middle Falls, N. Y. Invalid attachment for beds	373,668	Nov. 22	2106	563	41	892
Lawton, Lyman T., Meriden, Conn. Furniture-caster	358,206	Feb. 22	2128	561	38	840
Lawton, Philip J., Jefferson, Iowa. Adjustable driving-gear for corn-planters and other machines	365,188	June 21	1430	377	39	1370
Lawton, Walter, Winthrop, Mass. Coal-conveyer	364,024	May 31	2786	722	39	1029
Lawyer, David C., Mineral Springs, N. Y. Car-coupling	364,657	June 14	628	169	39	1215
Lay, Gilbert S., Bassett, Nebr. Baling-press	356,481	Jan. 25	1701	444	38	347
Laycock, Joseph E., Stephenson, Mich. Machine for trimming fence-posts	362,638	May 10	817	224	39	632
Layer, William C., Milwaukee, assignor of one-half to F. J. Hollis, Beloit, Wis. Trier	368,344	Aug. 16	1458	389	40	745
Layman, George W., J. A. Dempsey, and T. Coppinger, Bolivar, N. Y. Explosive safety-plug for boilers	371,333	Oct. 11	845	216	41	173
Layton, Lewis W., Chester, Ill. Automatic car-coupling	363,832	May 31	2508	651	39	976
Lazenby, Edward. (See James and Lazenby.)						
Le Blanc, Alfio, New Orleans, La. Draining-machine	355,329	Jan. 4	52	14	38	12
Le Blond, Frank, Joliet, Ill. Apparatus for loading and unloading ingots	360,028	Mar. 29	2415	{ 612 613 }	{ 38 }	1384
Le Clair, George, assignor of one-half to C. C. Brown, Mexico, N. Y. Tobacco-cutting machine	370,953	Oct. 4	320	78, 79	41	63
Le Compte, Lewis P. R., Portland, Oreg. Fruit-jar cover	360,165	Mar. 29	2654	670	38	1427
Le Coultre, Benjamin, Sentier, Switzerland. Click-spring for watches	358,207	Feb. 22	2129	562	38	840
Le Coultre, Benjamin, Sentier, Switzerland. Safety-pinion for watches	358,208	Feb. 22	2130	562	38	841
Le Count, Charles W., South Norwalk, Conn. Game-counter	359,792	Mar. 22	2029	514	38	1306
Le Count, Charles W., South Norwalk, Conn. Paper-weight	365,611	June 28	2070	540	39	1505
Le Fever Arms Company. (See Lewis and Lamport, assignors.)						
Le Gros, Alfred P., assignor to Le Gros Building and Car Roof Company, Louisville, Ky. Car-roof	374,545	Dec. 6	546	142	41	1152
Le Gros Building and Car Roof Company. (See Le Gros, Alfred P., assignor.)						
Le Roy, Albert, assignor to La Compagnie Française du Celluloid, Paris, France. Producing designs upon celluloid	370,546	Sept. 27	1789	.....	40	1393
Le Roy, Charles J., St. Louis, Mo. Horseshoe	365,010	June 14	1163	305	39	1311
Le Seur, James A. (See Le Seur, William W. and J. A.)						
Le Seur, William W., Boston, and J. A. Le Suer, Somerville, Mass. Combined game and advertising board	373,745	Nov. 22	2211	592	41	913
Le Van, W. Barnet, Philadelphia, Pa. Steam-boiler	367,818	Aug. 9	704	190	40	592
Le Vin, George W., assignor to H. N. May, Chicago, Ill. Subterranean electric-line system	370,955	Oct. 4	323	{ 79 80 81 }	{ 41 }	64
Lea, John H., Charlie, Tex. Wire splicer and stretcher	358,044	Feb. 22	1885	499	38	796
Lea, Richard H. (See Singer and Lea.)						
Leach, Joseph D. (See Creamer and Leach.)						
Leadbeater, Fred, assignor of one-half to T. C. Rogers, Detroit, Mich. Smoke-consuming furnace	375,169	Dec. 20	1457	381	41	1345
Leak, Henry B., Chatham, Ontario, Canada. Neck-yoke	364,266	June 7	90	25	39	1106
Leake, Douglas, Philadelphia, Pa. Nut-lock	365,828	July 5	96	27	40	20
Leake, Frank, Philadelphia, Pa. Terry-loom	372,920	Nov. 8	962	261	41	657
Leaman, May, San José, Cal. Bustle	369,455	Sept. 6	200	57	40	1070
Learnard, Heber F., assignor of one-third to P. B. Learnard, Fort Collins, Colo. Ore-concentrator	366,631	July 12	1208	323	40	239
Learnard, Perry B. (See Learnard, Heber F., assignor.)						
Learned, William B., assignor of one-half to E. Howard Watch and Clock Company, Boston, Mass. Facing watch and clock pinions	358,402	Feb. 22	2388	634	38	890
Leary, Thomas J., Chicago, Ill. Steam culinary vessel	355,328	Jan. 4	51	14	38	11
Leas, John W., West Manchester, Ohio. Dry-goods exhibitor	365,526	June 28	1944	506	39	1482
Lease, Edward. (See Bayer, Frank J., assignor.)						
Leavell, Leonidas W., Jr., and R. E. L., Kearney, Mo. Machine for gathering grain and seed	363,073	May 17	1428	378	39	754
Leavell, Robert E. L. (See Leavell, Leonidas W., Jr., and R. E. L.)						
Leavitt, Charles, Cleveland, Ohio. Cable road for street-cars	366,119	July 5	504	{ 136 137 }	{ 40 }	95
Leavitt, Frank M. (See Kittredge and Leavitt.)						
Leavitt, Frank M., Brooklyn, assignor to Automatic Selling Machine Company, New York, N. Y. Automatic apparatus for delivering prepaid articles	359,213	Mar. 8	1134	295	38	1119
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Clutch for power-presses	370,198	Sept. 20	1284	342	40	1291
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Drop-hammer	370,952	Oct. 4	316	78	41	63

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Leavitt, Frank M., Brooklyn, assignor to J. Stettheimer, New York, N. Y. Machine for coiling wire	375,678	Dec. 27	2151	{ 559 560 }	{ 41 }	1485
Leavy, Mathew, New York, N. Y. Refrigerating cellars and vaults	356,254	Jan. 18	1366	361	38	277
Lebeau, Theophile, New Haven, Conn. Lamp-burner	362,752	May 10	989	268	39	664
Leber, Luther H., and E. H. Neiman, York, Pa. Wire-fastener for hedge fences	356,721	Jan. 25	2027	533	38	409
Leber, Luther H., and M. C. Currens, York, Pa. Coin-counter	356,771	Feb. 1	40	11	38	431
Leblanc, Dolsey, Abbeville, La. Seed-planter	369,345	Sept. 6	54	16	40	1044
Lechner Manufacturing Company. (See Legg, Benjamin A., assignor.)						
Lechner Manufacturing Company. (See Legg, Benjamin A., assignor.) (Reissue.)						
Lechner Manufacturing Company. (See Miller, Charles W., assignor.)						
Leckler, Henry B. (See Levison, Chancellor G., assignor.)						
Lecky, Theodore B., Holmesville, Ohio. Fence-making machine	358,460	Mar. 1	54	14	38	913
Leclanché Battery Company. (See Francken and Bender, assignors.)						
Leclère, Francis, Philadelphia, Pa. Damper-regulator	370,267	Sept. 20	1373	369	40	1308
Leclère, Francis, Philadelphia, Pa. Damper-regulator	373,834	Nov. 29	2345	630	41	945
Lecoultré, Ami, Brassus Vaud, Switzerland. Stop-watch	355,403	Jan. 4	146	38, 39	38	30
Lecraft, Frederick, Jersey City, N. J. Folding umbrella	360,966	Apr. 12	822	211	39	158
Lecrone, Emanuel K., assignor of one-half to A. C. Fulton, York, Pa. Washing-machine						
Leddell, Charles S., Mendham, N. J. Steering device for bicycles	362,019	Apr. 26	2350	612	39	458
Ledoux, Joseph A. (See La Flèche and Ledoux.)	367,049	July 26	1766	477	40	358
Leder, George, Demopolis, Ala. Bale-tie	372,420	Nov. 1	202	57	41	508
Leder, George, Demopolis, Ala., and W. T. Forbes, Atlanta, Ga. Bale-tie buckle	372,421	Nov. 1	203	57	41	508
Lederle, Edward E., assignor of one-fourth to W. K. Cummings, Waco, Tex. Stove-pipe damper	361,301	Apr. 19	1318	338	39	261
Ledoux, Augustus D., New York, N. Y., assignor to D. Prince, Elizabeth, N. J. Making red oxide of iron from pyrites	360,967	Apr. 12	823		39	158
Ledoux, Joseph A. (See La Flèche and Ledoux.)						
Leduc, Constant, New York, N. Y. Life-preserver	356,592	Jan. 25	1851	487	38	376
Ledyard, John W., New York, N. Y. Device for converting motion	364,828	June 14	899	237	39	1263
Lee, Benjamin F., et al. (See Allan, John M., assignor.)						
Lee, Byron B., and J. Downs, Nashville, Mich. Grain weighing and registering apparatus	367,985	Aug. 9	945	{ 255 256 }	{ 40 }	640
Lee, C. Tennant, Boston, Mass. Head-covering and making the same	372,543	Nov. 1	383	103	41	543
Lee, Charles E., Rochester, N. Y. Electric temperature-regulator	357,838	Feb. 15	1604	415	38	738
Lee, Charles O., assignor of one-half to G. O. Weed, Woodland, Mich. Fence	358,461	Mar. 1	55	14	38	913
Lee, David C. (See Magee and Lee.)						
Lee, De Witt C. (See Hinsch, William L., assignor.)						
Lee, Frederick J. (See Tindall, John W., assignor.)						
Lee, George G., Paw Paw, Mich. Farm-gate	367,415	Aug. 2	82	22	40	466
Lee, Henry A., Worcester, Mass. Wood-planing machine	356,482	Jan. 25	1702	{ 444 445 }	{ 38 }	348
Lee, Henry T., and C. Protsman, Tullahoma, Tenn. Fence	370,954	Oct. 4	322	79	41	64
Lee, Horace G., Whiting, Kans. Blanching celery	357,610	Feb. 15	1264	332	38	676
Lee, J. Ellwood, Conshohocken, Pa. Surgical splint	364,942	June 14	1068	278	39	1294
Lee, J. Ellwood, Conshohocken, Pa. Surgical splint	365,612	June 28	2071	540	39	1505
Lee, J. Ellwood, Conshohocken, Pa. Manufacture of splints	366,120	July 5	506	137	40	97
Lee, James E. (See Kelly and Lee.)						
Lee, John C., Rochester, N. Y. Combined hat and clothes hook	364,658	June 14	630	170	39	1215
Lee, John O., assignor of two-thirds to C. Hoff and J. W. Shannahan, St. Paul, Minn. Boot or shoe burnishing machine	362,020	Apr. 26	2351	613	39	459
Lee, Lewis S., Philadelphia, Pa. Hair-clipping machine	357,718	Feb. 15	1426	375	38	705
Lee, Orange S., assignor to Clinton Wire Cloth Company, Clinton, Mass. Reed-supporting device for looms	362,980	May 17	1302	345	39	728
Lee, Peyton A., Coushatta, La. Shell capper and extractor	374,482	Dec. 6	446	116	41	1131
Lee, Robert E., Almont, assignor of one-half to W. M. Gray, Bruce, Mich. Sleigh	365,392	June 28	1741	451	39	1441
Lee, Samuel D., Mechanicsville, Iowa, assignor of one-half to J. C. Batdorf, Jackson, Mich. Sheaf-carrier for binders	366,327	July 12	791	214	40	157
Lee, Samuel W., Athens, Pa. Gate	358,462	Mar. 1	56	14	38	914
Lee, T. A. (See Wade, Edwin T., assignor.)						
Lee, Thomas L., Memphis, Tenn. Wooden basket	359,082	Mar. 8	961	246	38	1087
Lee, William. (See Wiggins, David, assignor.)						
Lee, William W. (See Jordan, Horatio, assignor.)						
Lee, William W., Northampton, Mass. Making hollow-handled implements	363,401	May 24	1869	491	39	848
Lee, William W., Northampton, Mass. Making hollow handles	365,829	July 5	97	27	40	20
Lee, William W., Northampton, Mass. Making hollow-handle implements	370,795	Oct. 4	62	16	41	14
Leech, Samuel S., Colliertown, Va. Animal-stock	367,305	July 26	2148	578	40	429
Leede, Julius, Washington, D. C. Carburetor	370,149	Sept. 20	1214	322	40	1278
Leedy, Daniel. (See Latham, Hiram P., assignor.)						
Leek, John W., Cincinnati, Ohio. Carriage-top	375,553	Dec. 27	1968	512	41	1453
Lees, Thomas, Toronto, Ontario, Canada. Shovel or scoop	360,029	Mar. 29	2417	613	38	1385
Lefever, Daniel M., Syracuse, N. Y. Breech-loading fire-arm	372,684	Nov. 8	594	162	41	593
Lefevre, Henry D., Bay City, Mich. Combined letter-sheet and envelope	372,685	Nov. 8	596	162	41	593
Lefèvre, Léon, and H. Pallut, Paris, France. Clock-winding device	355,404	Jan. 4	149	39	38	30
Lefort, Henry, Newark, N. J. Forming pendants for watches	372,158	Oct. 25	2058	527	41	425
Lefort, Henry G. (See King, Leach, assignor.)						
Legg, Benjamin A., assignor to Lechner Manufacturing Company, Columbus, Ohio. Mining-machine. (Reissue)	10,818	Mar. 15	1725	{ 438 439 }	{ 38 }	1235
Legg, Benjamin A., assignor to Lechner Manufacturing Company, Columbus, Ohio. Drive-chain	364,117	May 31	2907	754	39	1053
Legg, Benjamin A., assignor to Lechner Manufacturing Company, Columbus, Ohio. Mining-machine	374,900	Dec. 13	1048	{ 274 275 }	{ 41 }	1260
Legg, Benjamin A., assignor to Lechner Manufacturing Company, Columbus, Ohio. Drive-chain	375,296	Dec. 20	1613	423	41	1376
Legg, Isaac W., Jersey City, N. J. Ironing and bosom board	374,980	Dec. 20	1192	310	41	1294
Leggo, William A., assignor to J. Rae and J. C. Simpson, Montreal, Quebec, Canada. Telegraphic alphabet	364,356	June 7	205	57	39	1127
Leggo, William A., assignor to J. Rae and J. C. Simpson, Montreal, Quebec, Canada. Automatic telegraphy	372,475	Nov. 1	280	77, 78	41	524
Leggott, William, Bradford, county of York, England. Method of and apparatus for dampening gummed labels	367,643	Aug. 2	422	118	40	532
Lehman, Charles A., Sterling, Ill. Three-throw split switch	356,365	Jan. 18	1531	{ 402 403 }	{ 38 }	308
Lehman, Christian, Elgin, Iowa. Stove-pipe	372,075	Oct. 25	1938	500	41	403
Lehman, Otto A., Brooklyn, N. Y. Frame for hand-bags or pocket-books	364,357	June 7	206	57	39	1127

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Lehman, William B. (See Cline, George J., assignor.)						
Lehman, William H., <i>et al.</i> (See Rheem, John H., assignor.)						
Lehmann, Anthony A. (See Sternberg and Lehmann.)						
Lehmann, Carl G., and F. W. Rabenstein, Weissenfels-on-Saale, Saxony, Germany. Pantaloon-protector.....	362,519	May 10	633	179	39	601
Lehmann, Emil A., New York, N. Y. Shirt.....	357,325	Feb. 8	842	220	38	586
Lehmann, Gustav W., <i>et al.</i> (See Staubitz, Adam, assignor.)						
Lehmann, Hermann, Offenbach-on-the-Main, Prussia, Germany. Adjustable clasp for albums.....	361,766	Apr. 26	1966	513	39	390
Lehmann, Heinrich A. C. (See Netter, Lehmann, and Mattig.)						
Lehmann, John G. H., <i>et al.</i> (See Beck, Traugott, assignor.)						
Lehmer, James D. (See Harris, Bradner L., assignor.)						
Lehndorff, Oscar R., Detroit, Mich. Reversible back for car-seats.....	360,231	Mar. 29	2747	696	38	1444
Lehr, Henry, and C. Verch, Albany, N. Y. Car-coupling.....	358,617	Mar. 1	299	71	38	959
Lehr, John, Darmstadt, Ill. Safety-guard for watches.....	364,528	June 7	468	126	39	1175
Lehr, Joseph W. (See Lehr, Nicholas P. and J. W.)						
Lehr, Nicholas P. and J. W., Fremont, Ohio. Cultivator.....	364,943	June 14	1069	278	39	1294
Lehy, Geoffrey B., Boston, Mass. Electric burglar-alarm.....	364,764	June 14	798	211	39	1245
Leib, John, Sandy Run, Pa. Rod-coupling.....	365,263	June 21	1541	402	39	1391
Leibe, Hugo, Baltimore, Md. Harness-saddle.....	368,773	Aug. 23	2071	549	40	871
Leiby, Charles L., and C. L. Baittinger, Jr., Philadelphia, Pa. Crossing for cables.....	359,083	Mar. 8	961	247	38	1087
Leidigh, Samuel. (See Heinig and Leidigh.)						
Leigh, Lewis E., assignor of two-thirds to J. N. Leonard and L. J. Warner, Northampton, Mass. Flier for spinning-machines.....	356,229	Jan. 18	1340	353	38	271
Leightham, Joseph, assignor of one-half to J. H. Grove, Lebanon, Pa. Boiler.....	362,021	Apr. 26	2353	613	39	459
Leighton, Carleton F., assignor to C. S. Hill, Beverly, and F. D. Greene, Boston, Mass. Machine for finishing the sole-edges and cleaning the uppers of boots or shoes.....	368,537	Aug. 16	1739	463	40	798
Leiman, George W. (See Seessle and Leiman.)						
Leinbach, Felix W., <i>et al.</i> (See Claussen, Edward E., assignor.)						
Leinbach, Felix W., <i>et al.</i> (See Honiss, William H., assignor.)						
Leinbach, Felix W., <i>et al.</i> (See Lorenz and Honiss, assignors.)						
Leininger, William H., Salem, Oreg. Animal-exterminator.....	360,232	Mar. 29	2748	696	38	1445
Leinkauff, Joseph H., <i>et al.</i> (See Elliott, George S., assignor.)						
Leinkauff, William H., <i>et al.</i> (See Elliott, George S., assignor.)						
Leinkaup, Joseph H., <i>et al.</i> (See Elliott, George S., assignor.)						
Leinkaup, William H., <i>et al.</i> (See Elliott, George S., assignor.)						
Leinwather, Aloÿs M., assignor of one-half to H. Glaser, Vienna, Austria-Hungary. Portable railway system.....	375,422	Dec. 27	1786	{ 467 468 }	{ 41 41 }	1418
Leipner, William A., Lynn, Mass., assignor of one-half to W. R. Johnston, Sherbrooke, Canada. Armature for dynamo-electric machines.....	360,030	Mar. 29	2418	614	38	1385
Leist, Gustav, New York, N. Y. Cigar-bundling machine.....	365,926	July 5	243	64	40	48
Leith, Alexander, Humboldt Park, near Chicago, Ill. Indicator for boats.....	359,511	Mar. 15	1571	403	38	1207
Leith, David, Trenton, Tenn. Rein-protector.....	357,776	Feb. 15	1528	398	38	723
Leith, Harvey I., Providence, R. I. Bottle.....	360,102	Mar. 29	2545	648	38	1408
Leith, Harvey I., Providence, R. I. Bottle.....	368,345	Aug. 16	1458	389	40	746
Leland, Edward J., assignor of one-half to C. H. Colvin, Worcester, Mass. Photographic-plate holder.....	356,072	Jan. 11	1111	294	38	223
Leland, Joseph, Worcester, Mass. Machine for cutting openings in window-jambs.....	358,463	Mar. 1	57	15	38	914
Leland, William L., Oroville, Cal. Traction-engine.....	355,940	Jan. 11	925	{ 241 242 }	{ 38 38 }	188
Lelm, Otto, Paris, France. Means for obtaining copies of writings, drawings, &c.....	369,536	Sept. 6	304	84	40	1092
Lemassena, Andrew. (See Chichester, Lewis S., assignor.)						
Lembke, Charles, <i>et al.</i> (See Kneuper, Frederick J., assignor.)						
Lemm, Eli T., Eau Claire, assignor, by mesne assignments, of one-half to E. P. Arpin, Grand Rapids, Wis. Feed mechanism for saw-mill carriages.....	361,068	Apr. 12	969	245	39	184
Lemman, John, Wakefield, Mass. Reversible car-seat.....	365,311	June 21	1605	418	39	1402
Lemmon, Alexis, Sr. (See Jameson, John S., assignor.)						
Lemmon, Theodore G., Kansas City, Mo. Liquid-elevator.....	361,069	Apr. 12	970	246	39	185
Lemp, Hermann. (See Wightman and Lemp.)						
Lemp, Hermann, Hartford, Conn., assignor to Schuyler Electric Manufacturing Company, of Connecticut. Electric-arc lamp.....	369,456	Sept. 6	201	57	40	1071
Lemp, Hermann, and M. J. Wightman, Hartford, Conn. Incandescent-lamp socket and cut-out.....	365,189	June 21	1432	378	39	1371
Lemp, Hermann, and M. J. Wightman, Hartford, Conn., assignors to Schuyler Electric Manufacturing Company, of Connecticut. Device for holding incandescent-lamp filaments while the same are being flashed.....	366,673	July 19	1274	340	40	258
Lempert, Leon H., Rochester, N. Y. Hinge.....	369,346	Sept. 6	56	17	40	1045
Lendry, Ludwig, assignor, by mesne assignments, to J. Lester and N. Lendry, New York, N. Y. Producing designs on glass plates.....	365,527	June 28	1945	506	39	1482
Lendry, Nina, <i>et al.</i> (See Lendry, Ludwig, assignor.)						
Lenfant, Henri, Nogent-sur-Marne, Seine, France. Manufacture of blanks for eyeglasses..	374,546	Dec. 6	547	142	41	1152
Lenhart, William H., Defiance, Ohio. Tubular cutter-lathe.....	355,540	Jan. 4	319	85	38	64
Lenix, John M., and G. B. Swann, Norton, Tex. Brace for bedsteads, gates, &c.....	364,027	May 31	2790	723	39	1030
Lennon, Watson S., Hardinsburg, Ky. Car-coupling.....	363,474	May 24	1984	{ 517 518 }	{ 39 39 }	870
Lenox, Edwin S., Worcester, Mass. Rolling wire rods.....	361,591	Apr. 19	1710	442	39	334
Lenox, Edwin S., Worcester, Mass. Mill-plant for wire-making.....	361,592	Apr. 19	1713	443	39	335
Lenox, Edwin S., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Machine for coiling wire rods.....	373,463	Nov. 22	1792	477	41	832
Lenox, Edwin S., and L. Cook; said Lenox assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Machine for making wire bale-ties.....	374,308	Dec. 6	196	52, 53	41	1083
Leonard, Brunswick W., Old Saybrook, Conn. Hasp-lock.....	365,613	June 28	2072	540	39	1506
Leonard, Charles H. (See Ford, James H., assignor.)						
Leonard, Charles N., Indianapolis, Ind. Pillow-holder.....	359,617	Mar. 22	1770	{ 449 450 }	{ 38 38 }	1259
Leonard, David M. (See Leonard, Mathew W. and D. M.)						
Leonard, Franklin, Bridgewater, assignor of one-half to J. P. Batchelder, Schenectady, N. Y. Machine for picking and separating hops.....	356,323	Jan. 18	1472	{ 387 388 }	{ 38 38 }	296
Leonard, George, Newton, Mass. Article of table-ware.....	364,025	May 31	2789	722	39	1030
Leonard, George D., assignor of one-half to J. N. Leonard, Northampton, Mass. Spool....	368,675	Aug. 23	1928	512	40	845
Leonard, John N., <i>et al.</i> (See Leigh, Lewis E., assignor.)						
Leonard, John N. (See Leonard, George D., assignor.)						
Leonard, Mathew W. and D. M., Utica, Nebr. Check-rower.....	364,118	May 31	2908	754	39	1053
Leonard, William S. (See Kelsey, Oliver A., assignor.)						
Leonard, William S., Battle Creek, Mich. Sheathing-lath machine.....	367,644	Aug. 2	423	118	40	532

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Leonhardt & Co., A. (See Bender, Fritz, assignor.)						
Leonhardt & Co., A., <i>et al.</i> (See Bender and Schultz, assignors.)						
Leonhardt, Louis, St. Louis, Mo. Automatic pressure-regulator for soda-fountains of bottling-machines.....	367,645	Aug. 2	425	119	40	532
Leonox, Edwin S., and L. Cook; said Cook assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Machine for making wire bale-ties.....	362,452	May 3	534	{ 148 149 150 }	{ 39 }	578
Leopold, Charles F., assignor to American Manufacturing Company, Philadelphia, Pa. Saw-set.....	371,268	Oct. 11	758	195	41	157
Lepinte, Firmin S., Vincennes, France. Horseshoe.....	357,014	Feb. 1	379	101	38	492
Lepsky, William, Bureau Junction, Ill. Fish-plate joint for railway-rails and bearing for such joints.....	374,604	Dec. 13	629	164	41	1177
Lerch, Tyburtus F., assignor to H. Fisher, Canton, Ohio. Crate.....	365,442	June 28	1813	472	39	1454
Lesage, Louis. (See Kearney, Daniel, assignor.)						
Leslie, Arthur M., Chicago, Ill. Sewing-machine drawer.....	362,520	May 10	634	179	39	601
Leslie, Benjamin J., Butler, Ky. Fence.....	367,005	July 19	1705	459	40	338
Leslie, Charles F. (See Laughlin and Leslie.)						
Leslie, Frank E., Felicity, Ohio. Tobacco-plug extractor.....	362,981	May 17	1303	345	39	729
Leslie, J. William, Everett, assignor of one-half to I. Watts, Waverly, and J. C. Willis, Boston, Mass. Curtain ring or hanger.....	365,691	June 28	2185	571	39	1526
Leslie, J. William, Everett, assignor of one-half to I. Watts, Waverly, and J. C. Willis, Boston, Mass. Curtain ring or hanger.....	365,692	June 28	2186	571	39	1526
Leslie, J. William, Everett, assignor of one-half to I. Watts, Waverly, and J. C. Willis, Boston, Mass. Curtain ring or hanger.....	372,628	Nov. 1	510	139	41	567
Leslie, William F., Nashville, Ark. Plow.....	361,366	Apr. 19	1407	363	39	277
Lesneur, John E., Nashville, Tenn. Brick-machine.....	355,876	Jan. 11	820	{ 214 215 }	{ 38 }	166
Lester, Josephine, <i>et al.</i> (See Lendry, Ludwig, assignor.)						
Lester, Milton, Inavale, Nebr. Fish-hook attachment.....	372,686	Nov. 8	597	162	41	593
Lesueur, John E., Nashville, Tenn. Metallic car-seal.....	364,026	May 31	2789	723	39	1030
Letchworth, Josiah, Buffalo, N. Y. Snap-hook.....	375,554	Dec. 27	1969	512	41	1453
Letson, Augustus F., assignor, by mesne assignments, to F. A. Fox, Buffalo, N. Y. Automatic fire-extinguisher.....	357,719	Feb. 15	1428	375	38	705
Letton, Raphael E. (See Wells, Clarence L., assignor.)						
Letts, Charles E., assignor of one-half to J. J. Alley, Detroit, Mich. Pinch-bar.....	359,793	Mar. 22	2030	514	38	1307
Levalley, Nelly P., Milwaukee, Wis. Drive-chain.....	357,611	Feb. 15	1265	333	38	676
Levan, John P., Altoona, Pa. Draft-rigging for railway-cars.....	360,705	Apr. 5	442	113	39	82
Levarn, Daniel, New Haven, Vt. Potato-digger.....	374,797	Dec. 13	897	235	41	1231
Leve, Gustave, New York, N. Y., assignor to A. B. Harris, Springfield, Mass. Sleeping-car.....	357,531	Feb. 8	1137	{ 297 298 }	{ 38 }	642
Leve, Gustave, New York, N. Y., assignor to A. B. Harris, Springfield, Mass. Ventilating apparatus for railway-cars.....	373,898	Nov. 29	2439	655	41	962
Levering, Franklin W., Baltimore, Md. Mirror.....	365,264	June 21	1542	402	39	1391
Levett, Louis. (See Levett, Morris H., assignor.)						
Levett, Morris H., assignor of one-third to L. Levett, New York, N. Y. Sediment-trap and solution-clarifier.....	369,457	Sept. 6	204	57	40	1071
Levis, O. D. (See McAllister, Samuel, assignor.)						
Levison, Chancellor G., assignor of one-half to H. B. Leckler, Brooklyn, N. Y. Buckboard-wagon.....	373,990	Nov. 29	2566	690	41	988
Levy, Abraham, Boston, Mass., assignor to J. Colby & Co. Expanding waistband.....	375,367	Dec. 27	1715	450	41	1404
Levy, Abram B., and G. W. Decker, Canandaigua, N. Y. Dust-pan.....	360,453	Apr. 5	82	22	39	17
Levy, Isaac M., assignor to Combination Folding Bed Company, Chicago, Ill. Table and bed combined.....	362,164	May 3	155	45	39	503
Levy, Julius, San Francisco, Cal. Reflector for lamps.....	359,794	Mar. 22	2031	515	38	1307
Levy, Max H., Pittsborough, Miss. Lifting-jack.....	368,096	Aug. 9	1099	292	40	668
Levy, Samuel L., New York, N. Y. Combined tippet, muff, and chest-protector.....	359,872	Mar. 22	2161	545	38	1330
Lewandowski, Theodore, Chicago, Ill. Malt-kiln floor.....	364,269	June 7	93	27	39	1107
Lewenberg, Clara, New York, N. Y., assignor of one-half to F. Rawitser, Washington, D. C. Armpit dress-shield.....	367,646	Aug. 2	426	119	40	532
Lewis, Albert C., Kings County, N. Y. Method of and apparatus for mingling gases.....	372,687	Nov. 8	598	163	41	593
Lewis, Albert D., assignor of one-third to J. S. Oehmen, Chicago, Ill. Railway-crossing.....	364,267	June 7	91	26	39	1106
Lewis, Arthur G. (See Gurley, Benjamin B., assignor.)						
Lewis, Arthur W., Bradford, Pa. Socket for removing tools from oil-wells.....	360,311	Mar. 29	2860	728	38	1467
Lewis, Arthur W., Bradford, Pa. Box-coupling for drilling-tools.....	360,312	Mar. 29	2861	728	38	1467
Lewis, Asa K. (See Lewis, Johnson, and John, assignors.)						
Lewis, Charles E., and F. G. Briegel, Manchester, Mich. Fastener for shoes.....	361,166	Apr. 12	1126	284	39	214
Lewis, Charles E. F., Brooklyn, N. Y. Vinaigrette.....	366,847	July 19	1512	404	40	301
Lewis, Charles H. (See Pratt, John J., assignor.)						
Lewis, Charles P., <i>et al.</i> (See Bowman, William M., assignor.)						
Lewis, Daniel W., Albert Lea, Minn. Clasp for harness.....	362,165	May 3	156	45	39	503
Lewis, Dio, Prescott, Ark. Plow.....	370,069	Sept. 20	1095	290	40	1256
Lewis, Douglas P., A. M. Johnson, and J. W. John; said Johnson assignor to A. K. Lewis, Cincinnati, Ohio. Fire-place.....	359,868	Mar. 22	2156	544	38	1329
Lewis, Edward A., St. Louis, Mo. Time-piece dial.....	374,605	Dec. 13	630	165	41	1178
Lewis, Edward F., Waterbury, Conn. Machine for making wire nails.....	364,119	May 31	2910	{ 755 756 }	{ 39 }	1053
Lewis, Edward M. (See Wheeler, Frank L., assignor.)						
Lewis, Edward R., Springfield, Mass. Spring-gun.....	362,096	May 3	61	18	39	485
Lewis, Franklin F. (See Lewis, Stephen B. and F. F.)						
Lewis, George R., and H. L. Bowman, Lamoille, Ill. Pencil-sharpener.....	360,313	Mar. 29	2862	728	38	1467
Lewis, George S., and A. G. Lamport, Lamoille, Ill. Le Fever Arms Company, Syracuse, N. Y. Breech-loading fire-arm.....	371,605	Oct. 18	1228	320	41	258
Lewis, George T., Philadelphia, Pa. Manufacturing sublimed lead pigments from lead ores.....	364,268	June 7	92	26	39	1106
Lewis, Isaac W., Portland, Oreg. Car-axle.....	357,612	Feb. 15	1267	333	38	676
Lewis, James, assignor of one-fourth to F. M. Ashmead, Oil City, Pa. Heating apparatus.....	372,032	Oct. 25	1870	483	41	391
Lewis, John D., <i>et al.</i> (See Gray, John L., assignor.)						
Lewis, John W., and N. J., McKay Station, Ohio. Wire-manipulating tool.....	357,613	Feb. 15	1268	333	38	676
Lewis, Joseph, South Evanston, Ill. Balanced valve.....	365,135	June 21	1361	360	39	1356
Lewis, Joseph, South Evanston, Ill. Elastic balance-valve.....	365,136	June 21	1362	361	39	1357
Lewis, Joseph M., Trenton, N. J. Strainer for culinary vessels.....	362,097	May 3	62	18	39	485
Lewis, Justus P., assignor of one-half to Pratt & Cady Company, Hartford, Conn. Tool for cutting and burnishing.....	369,252	Aug. 30	2724	725	40	1008
Lewis, Leroy S., Hartford, Conn., assignor, by mesne assignments, to Eddison Supply Company. Fire-extinguisher.....	373,563	Nov. 22	1956	519	41	860

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Lewis, Lorenzo D., West Winfield, N. Y. Wash-boiler	362,521	May 10	635	180	39	601
Lewis, Luman H., San José, Cal. Miter-bevel	361,532	Apr. 19	1620	419	39	319
Lewis, Newton J. (See Lewis, John W. and N. J.)						
Lewis, Patrick, Quebec, Quebec, Canada. Adjustable tent-pole	359,795	Mar. 22	2032	515	38	1307
Lewis, Patrick, Quebec, Quebec, Canada. Tent-ventilator	359,796	Mar. 22	2033	515	38	1307
Lewis, Pearl C., Catskill, N. Y. Convertible chair and cot	369,347	Sept. 6	57	17	40	1045
Lewis, Richard, Kilburn, county of Middlesex, England. Suspenders	370,630	Sept. 27	1923	510	40	1418
Lewis, Richard E. (See Crouse and Lewis.)						
Lewis, Robert A., Cherokee, Iowa. Tire-heating furnace	370,398	Sept. 27	1567	420	40	1353
Lewis, Russell H., assignor to R. S. Cutting, Providence, R. I. Button	365,693	June 28	2187	571	39	1526
Lewis, Russell H., assignor to F. Richardson, Providence, R. I. Heel or sole protector	367,718	Aug. 2	559	153	40	556
Lewis, Russell H., assignor to F. Richardson, Providence, R. I. Heel-plate	371,510	Oct. 11	1096	285	41	223
Lewis, Russell H., assignor to B. L. Hall & Co., Providence, R. I. Hinged shoe-button	375,297	Dec. 20	1615	423	41	1376
Lewis, Spencer, Boundary, Ind. Grindstone-frame	368,156	Aug. 9	1180	315	40	683
Lewis, Spencer, Boundary, Ind., assignor to Lake Huron Stone Company, Detroit, Mich. Grindstone-frame	375,170	Dec. 20	1458	381	41	1345
Lewis, Stephen B. and F. F., Portage, Wis. Knit garment	356,142	Jan. 18	1221	324	38	249
Lewis, T. D., et al. (See Emley, James E., assignor.)						
Lewis, Theodore G., Buffalo, N. Y. Dental illuminating apparatus	370,547	Sept. 27	1791	477	40	1393
Lewis, Thomas. (See Renard, Hippolyte, assignor.)						
Lewis, Wallace J., Tyler, Tex. Locomotive valve-gear	355,770	Jan. 11	652	{ 170 171 }	{ 38 }	137
Lewis, Wilfred. (See Bancroft and Lewis.)						
Lewis, William D. (See Powell and Lewis.)						
Lewis, William F. (See Atwood and Lewis.)						
Lewis, William F. (See Tobey, Fred W., assignor.)						
Lewis, William H. (See Cooper and Lewis.)						
Lewis, William H., Brooklyn, assignor to E. & H. T. Anthony & Co., New York, N. Y. Shutter for photographic cameras	359,797	Mar. 22	2034	515	38	1308
Lewis, William H., Brooklyn, assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic camera	360,314	Mar. 29	2863	729	38	1467
Lewis, William H., Brooklyn, assignor to E. & H. T. Anthony & Co., New York, N. Y. Folding top for camera-stands	361,826	Apr. 26	2057	535	39	406
Lewis, William H., Brooklyn, assignor to E. & H. T. Anthony & Company, New York, N. Y. Photograph-camera shutter	367,986	Aug. 9	947	256	40	640
Lewis, William H., assignor to E. & H. T. Anthony & Company, New York, N. Y. Photographic camera	372,856	Nov. 8	870	233	41	640
Lewis, William H., Brooklyn, assignor to E. & H. T. Anthony & Company, New York, N. Y. Shutter for photographic cameras	372,857	Nov. 8	873	233	41	640
Lewis, William J., Pittsburg, Pa. Regenerating-furnace	371,334	Oct. 11	846	217	41	173
Lewis, William W., Cincinnati, Ohio. Balanced valve	365,927	July 5	244	64	40	48
Lewman, John T., Leatherwood, Ind. Horse-rake	358,680	Mar. 1	388	93	38	976
Lewman, John T., Leatherwood, Ind. Mole-trap	366,963	July 19	1656	444	40	330
Lewton, George W., Centre Point, Iowa. Car-coupling	369,066	Aug. 30	2492	661	40	961
Lewy, Henry, Montgomery, Ala. Door-spring	356,001	Jan. 11	1009	265	38	204
Libbe, John H., Toledo, Ohio. Stone-laying jack	362,982	May 17	1304	346	39	729
Libbey, Edward D. (See Locke, Joseph, assignor.)						
Libbey, Elias D., St. Paul, Minn., assignor to Scribner-Libbey Company. Corrugated-sheet-metal cutter	363,524	May 24	2061	535	39	886
Libbey, Hosea W., Boston, Mass. Rubber-covered elastic compound	365,137	June 21	1364	361	39	1357
Libbey, Hosea W., Boston, Mass. Cotton-gin rib	374,193	Dec. 6	40	11	41	1054
Libbey, Leon D., Wyandotte, Kans. Cable-grip	373,188	Nov. 15	1376	365	41	742
Lichtenberg, Wilhelm, said Lichtenberg assignor of one-half his right to A. Bilda, Milwaukee, Wis. Machine for treating hides	363,295	May 17	1728	452	39	813
Lichtenstein, Joseph, and R. Flocke, assignors to R. Neumann & Co., Newark, N. J. Traveling-bag	363,654	May 24	2249	583	39	922
Lichtentag, Isaac, New Orleans, La. Cement	363,402	May 24	1870		39	848
Lickly, Albert W. (See Barber and Lickly.)						
Lidback, John A., Deering, Me. Gate for railway-crossings	359,163	Mar. 8	1065	{ 277 278 }	{ 38 }	1107
Lidback, John A., Portland, Me. Engine	360,353	Mar. 29	2915	742	38	1476
Lidback, John A., Portland, Me., assignor to H. Loud, Everett, Mass. Machine for mill-ing rolls	358,158	Feb. 22	2057	541	38	826
Liddell, William, assignor of one-half to R. Gair, New York, N. Y. Machine for making satchel-bottom or square-bottom bags	370,548	Sept. 27	1792	{ 477 478 }	{ 40 }	1393
Liddicoat, Edward J., and A. W. Utzinger, Astoria, Oreg. Beer-cooler	366,011	July 5	365	99	40	69
Liddle, Gilbert. (See Godfrey, Luman M., assignor.)						
Lieb, Charles, Wilmington, Del. Check-valve	362,166	May 3	157	46	39	504
Lieb, Charles A., assignor to Zinn & Kayser, New York, N. Y. Grain-weighing scale	368,840	Aug. 23	2162	573	40	888
Lieb, John A., Newark, N. J. Cuff or collar button	372,033	Oct. 25	1872	483	41	392
Liebau, August W. R., New York, N. Y. Device for adjusting clothes-lines	370,199	Sept. 20	1287	342	40	1292
Liebenroth, Van Arno & Co. (See Klaproth, Gustav, assignor.)						
Lieberman, Morris J., et al. (See Auredenn, John, assignor.)						
Liebmann, Adolph, Manchester, England. Monosulpho-acid of alpha-naphthol	374,259	Dec. 6	125		41	1071
Liedke, Edward L., Sandusky, Ohio. Whiffletree	359,873	Mar. 22	2162	545	38	1331
Lieker, Frederick H., Toronto, Ontario, Canada. Purse	364,529	June 7	469	126	39	1175
Liepmann, Henry, London, county of Middlesex, England, assignor to Cassel Gold Extracting Company, (limited,) Glasgow, Scotland. Apparatus for separating metals from ores or alloys by electrolysis	362,022	Apr. 26	2354	614	39	459
Light, Henry B., Simpson's, Va. Tobacco-conveyer	360,598	Apr. 5	301	73	39	57
Lightbown, William L., Washington, D. C. Police-nippers	365,614	June 28	2072	540	39	1506
Lightburne, Stafford, Jr., St. Louis, Mo. Reminder for reservoirs of vapor-stoves	367,306	July 26	2150	578	40	429
Lightburne, Stafford, Jr., St. Louis, Mo. Gasoline-stove attachment	372,544	Nov. 1	384	104	41	543
Lightcap, William J. (See Pratt, Thomas, assignor.)						
Lightfoot, Francis, Lansdowne, Pa. Railway-rail	373,591	Nov. 22	1999	530	41	869
Lighthall, Joseph N., assignor of one-half to W. A. Lighthall, Chicago, Ill. Lubricator	371,080	Oct. 4	494	124	41	98
Lighthall, William A. (See Lighthall, Joseph N., assignor.)						
Lighthill, August P., Boston, Mass. Atomizer	365,265	June 21	1543	403	39	1391
Lighthiser, George, Napoleon, Ohio. Fastening device	369,348	Sept. 6	61	18	40	1045
Lightner, Henry, Neff's Mills, Pa. Machine for dressing shingles	358,045	Feb. 22	1887	{ 499 500 }	{ 38 }	796
Lightner, Henry L., assignor of one-half to F. A. Huntington, San Francisco, Cal. Apparatus for atomizing sulphur	359,164	Mar. 8	1066	278	38	1108
Lighthouse, John C., Rochester, N. Y. Mail-bag	374,844	Dec. 13	963	{ 251 252 }	{ 41 }	1243

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Lightwardt, Henry, Jr., Philadelphia, Pa. Bottle-jacket	370,268	Sept. 20	1375	369	40	1309
Ligibel, Adolph. (See Butler and Ligibel.)						
Ligowsky, George, Cincinnati, Ohio. Irrigating apparatus	368,841	Aug. 23	2165	{ 573 574 575 }	{ 40 }	888
Like, Martin S., Princeton, Iowa. Trestle	356,844	Feb. 1	142	39	38	449
Lilley, John W., Columbus, Ohio. Combination memorandum-holder and perpetual calendar	367,217	July 26	2007	542	40	404
Lillie, Robert B., Hanover, N. H. Soil-pulverizer	355,405	Jan. 4	150	39	38	30
Lillendahl, William A., Jersey City, N. J. Support for steam-pipes	361,767	Apr. 26	1967	513	39	390
Lilly, Isaac N., Chicago, Ill. Bridle-bit attachment	367,416	Aug. 2	82	22	40	467
Lilly, Marcine C., assignor of one-half to W. H. and F. Elwood, Decatur, Ill. Can-opener	375,451	Dec. 27	1829	478	41	1426
Lilly, William H., assignor to F. Baumgarten, Philadelphia, Pa. Cigar-cutter	375,298	Dec. 20	1616	424	41	1377
Linck, Joseph, assignor of one-half to M. Armstrong, Snoddy's Mills, Ind. Coal-drilling machine	361,167	Apr. 12	1127	285	39	214
Lincoff, Bernard, I. Seff, and H. Günther, New York, N. Y. Lighting device for cigarette-boxes	364,595	June 7	551	148	39	1192
Lincoln, Charles E., assignor of one-half to J. Sanduskey, Erie, Pa. Harness-martingale	365,694	June 28	2188	571	39	1527
Lindauer, Benjamin, Chicago, Ill. Trousers	367,719	Aug. 2	560	153	40	557
Lindberg, Theodore, Brooklyn, N. Y., assignor to R. S. Gould, East Orange, N. J. Device for ornamenting tubes	359,729	Mar. 22	1925	488	38	1289
Lindberg, Theodore J. P. F., Brooklyn, assignor to R. S. Gould, New York, N. Y. Ornamenting curtain-poles	361,827	Apr. 26	2058	535	39	407
Lindemann, August, Allentown, Pa. Valve-operating mechanism	355,457	Jan. 4	211	56, 57	38	42
Lindemann, Ernest C., Baltimore, Md. Roofing-tile	361,425	Apr. 19	1484	383	39	292
Lindemuth, Harry H., Mount Joy, Pa. Combined steam, hot-water, and hot-air heater	373,835	Nov. 29	2346	630	41	945
Lindemuth, Harry H., Mount Joy, Pa. Steam-boiler	373,836	Nov. 29	2348	{ 630 631 }	{ 41 }	946
Linden, Peter, assignor of one-half to D. Peters, Troy, N. Y. Heel for boots or shoes	372,688	Nov. 8	600	163	41	594
Linder, Charles. (See Drake and Linder.)						
Linder, Charles, Kansas City, Mo. Post-hole auger	374,260	Dec. 6	125	32	41	1071
Linder, Pleasant P., and R. P. Bryant, Jacksonville, Ala. Cattle-guard	360,599	Apr. 5	301	74	39	58
Linder, S. Jud, Lacelle, Iowa. Elevating device	370,796	Oct. 4	63	16	41	14
Lindesmith, Harvey W. (See Lindesmith, Lewis S. and H. W.)						
Lindesmith, Lewis S. and H. W., Bryan, Ohio. Carriage-iron	367,111	July 26	1861	503	40	376
Lindgren, August, Moline, Ill. Wheel-cultivator	358,210	Feb. 22	2132	{ 562 563 }	{ 38 }	841
Lindgren, August, assignor to Moline Plow Company, Moline, Ill. Break-pin appliance for plows	358,209	Feb. 22	2131	562	38	841
Lindgren, August, assignor to Moline Plow Company, Moline, Ill. Lister-plow	364,829	June 14	900	238	39	1263
Lindgren, August, assignor to Moline Plow Company, Moline, Ill. Combined plow and planter	374,415	Dec. 6	345	90	41	1111
Lindgren, Laurence P., Doniphan, Nebr. Glass-tube cutter	365,190	June 21	1433	378	39	1371
Lindley, Lafayette W., Louisville, Ky. Wire-stretcher	370,631	Sept. 27	1924	510	40	1418
Lindley, Thomas H., assignor to B. G. McCullough, Lyons, Iowa. Stove-hood	356,722	Jan. 25	2029	533	38	409
Lindner, George. (See Hart, John M., assignor.)						
Lindquist, John S., Swedeburg, Nebr. Windmill	360,706	Apr. 5	443	113	39	82
Lindsay, Amelia H., Pittsburg, Pa. Rotary engine	369,253	Aug. 30	2725	725	40	1008
Lindsay, Marcellus J., and D. M. Ross, Bellevue, Iowa. Measuring oil-tank	361,828	Apr. 26	2058	{ 535 536 }	{ 39 }	407
Lindsay, Thomas J., Lafayette, Ind. Planter	358,046	Feb. 22	1889	500	38	797
Lindsay, Thomas J., Lafayette, Ind. Planter	366,964	July 19	1657	445	40	330
Lindsay, William I. (See Cochran and Lindsay.)						
Lindsey, Charles H., et al. (See Buxton, Levi W., assignor.)						
Lindsey, Charles M., Pittsburg, Pa. Grinding and polishing material	373,239	Nov. 15	1460	.....	41	757
Lindsey, Henry K. (See Card, George F., assignor.)						
Lindsey, John, Farmersville, Tex. Horseshoeing apparatus	369,724	Sept. 13	567	155	40	1152
Lindsley, Augustus N. (See Stanley, Lucius T., assignor.)						
Lindsley, Edward, Cleveland, Ohio. Anti-sealing dip-pipe and sealing-cup	358,047	Feb. 22	1892	{ 500 501 }	{ 38 }	797
Lindsley, James H., Newark, N. J. System of ventilation	370,632	Sept. 27	1925	510	40	1418
Lindström, Charles, and W. T. Miller, Altoona, Pa. Machine for truing car-wheels	355,829	Jan. 11	744	{ 194 195 }	{ 38 }	153
Lindy, Joel, and H. H. Hood, Charlotte, N. C. Cotton chopper and cultivator	371,955	Oct. 25	1746	452	41	370
Line, William F., Andrews, Ind. Fumigator	363,403	May 24	1870	491	39	848
Lines, John. (See Clark and Lines.)						
Linham, Robert E., Mansfield, Ohio, and R. M. Agnew, Lancaster, Pa., assignors to Rote Automatic Brake Company, Mansfield, Ohio. Automatic car-brake	359,874	Mar. 22	2163	546	38	1331
Lingle, Benjamin I., and L. Crull, Harrisburg, Pa.; said Lingle assignor to said Crull. Apparatus for applying surfacing-plates to walls	373,669	Nov. 22	2107	563	41	892
Lingle, Benjamin I., and L. Crull, Harrisburg, Pa.; said Lingle assignor to said Crull. Machine for backing facing-plates for wall-surfaces	373,670	Nov. 22	2108	564	41	892
Lingle, George W., assignor of one-half to F. Yunk, Bryan, Ohio. Oar-blade	370,070	Sept. 20	1096	290	40	1256
Lingley, John W., assignor to D. Whittemore, Quincy, Mass. Sewing-machine	368,538	Aug. 16	1740	463	40	798
Link, Friedrich, New Orleans, La. Lever-catch for double doors	369,458	Sept. 6	205	58	40	1071
Linn, Allen D. (See Durant, Linn, and Shupe.)						
Linn, Allen D., assignor to Racine Hardware Manufacturing Company, Racine, Wis., and T. Kane, Chicago, Ill. Wood-working machine	359,453	Mar. 15	1481	379	38	1191
Linn, Allen D., assignor to Racine Hardware Manufacturing Company, Racine, Wis., and T. Kane, Chicago, Ill. Multi-cylinder engine	365,081	June 21	1276	{ 337 338 339 }	{ 39 }	1342
Linn, Allen D., assignor to Racine Hardware Manufacturing Company, Racine, Wis., and T. Kane, Chicago, Ill. Compound engine	375,077	Dec. 20	1324	{ 345 346 }	{ 41 }	1318
Linnell, Philetus E., Charlotte, N. C. Speed-gearing for bicycles	362,220	May 3	226	66	39	517
Linnenbrügge, Adolf W. F. G. (See Nagel, Kaemp, and Linnenbrügge.)						
Linney, Albert J., Cambridgeport, assignor of one-half to D. H. Bishop, Boston, Mass. Adjustable miter-clamp	370,485	Sept. 27	1701	451	40	1377
Linscott, John M., Worcester, Mass. Car-starter	367,531	Aug. 2	257	73	40	500
Linscott, John M., Worcester, Mass. Repeating toy pistol	372,476	Nov. 1	283	78	41	524
Linsley, Newton, Freeport, Ill. Stove-pipe shelf	359,574	Mar. 15	1682	430	38	1228
Linton, August W., assignor of one-half to E. P. Lundberg, Fargo, Dak. Ter. Ratchet-drill	370,956	Oct. 4	328	81	41	64
Linton, Charles B., Brooklyn, assignor to Unexcelled Fire Works Company, Kings County, N. Y. Pyrotechnic package	356,651	Jan. 25	1940	508	38	393

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Linville, Jacob H., Philadelphia, Pa. Printing-telegraph	368,217	Aug. 16	1269	{ 338 339 340	{ 40	708
Linville, Jacob H., Philadelphia, Pa., assignor to International Printing Telegraph Com- pany, Camden, N. J. Electric motor	355,771	Jan. 11	653	{ 171 172	{ 38	137
Lipp, Albert E., Philadelphia, Pa. Artist's mail picture-holder	363,525	May 24	2062	535	39	886
Lippincott & Co., Charles. (See Lippincott, F. Hazard, assignor.)						
Lippincott, F. Hazard, assignor to C. Lippincott & Co., Philadelphia, Pa. Soda-water ap- paratus	375,452	Dec. 27	1829	478	41	1426
Lippincott, Thomas W., Rockford, Ill., assignor of one-half to W. T. Randall, Beloit, Wis. Advertising device	356,408	Jan. 18	1590	418	38	319
Lippy, David, Mansfield, Ohio. Cash-carrier apparatus	359,875	Mar. 22	2165	{ 546 547	{ 38	1331
Lippy, David, Mansfield, Ohio. Carrier for store-service apparatus	365,394	June 28	1744	452	39	1441
Lipsey, Andrew B., West Hoboken, N. J. Gas-burner	358,560	Mar. 1	225	52	38	945
Lipsey, Andrew B., West Hoboken, N. J. Apparatus for manufacturing gas	370,957	Oct. 4	329	82	41	65
Lisk, George W., Clifton Springs, N. Y. Pail-bottom	374,687	Dec. 13	736	193	41	1200
Lissberger, Abraham K. (See Wandrey and Schimper, assignors.)						
List, George A. (See List and Kosakoff, assignors.)						
List, Victor, and J. Kosakoff, assignors of one-half to G. A. List, Moscow, Russia. Petro- leum-motor	371,849	Oct. 18	1590	411	41	331
List, William A., Wheeling, W. Va. Eaves-trough	357,839	Feb. 15	1605	416	38	738
Listeman, Phillip, Collinsville, Ill. Car-starter	356,593	Jan. 25	1852	487	38	376
Lister, Barker, Savanna, Ill. Tuyere-iron	372,689	Nov. 8	601	163	41	594
Lister, John T., Cleveland, Ohio. Apparatus for manufacturing carbons	356,879	Feb. 1	198	55	38	458
Lister, John T., assignor to Champion Safety Lock and Novelty Company, Cleveland, Ohio. Sash-fastener	373,143	Nov. 15	1298	345	41	729
Lister, John T., assignor to J. R. Post, Cleveland, Ohio. Garment-supporter	360,809	Apr. 5	582	152	39	110
Lister, John T., assignor of one-fourth to E. L. Sturtevant, Cleveland, Ohio. Apparatus for making carbons. (Reissue)	10,866	Sept. 13	1037	{ 273 274	{ 40	1237
Lister, Samuel C., and J. Reixach, Bradford, county of York, England. Double pile fabric	355,772	Jan. 11	662	{ 172 173	{ 38	139
Litchfield, Isaac W., Warwick, assignor of one-half to P. K. Dumaresq, New York, N. Y. Binding device for electric apparatus	361,705	Apr. 26	1887	488	39	376
Littell, H. H., et al. (See Hatfield, Patrick J., assignor.)						
Littell, Hardin H., Louisville, Ky. Girder-rail	369,186	Aug. 30	2644	702	40	992
Littell, Hardin H., Louisville, Ky. Girder-rail	369,187	Aug. 30	2645	703	40	992
Littell, Hardin H., Louisville, Ky. Girder-rail	369,188	Aug. 30	2645	703	40	992
Littell, Hardin H., Louisville, Ky. Girder-rail	369,189	Aug. 30	2646	703	40	992
Littell, Hardin H., Louisville, Ky. Rail for street-railways	369,190	Aug. 30	2646	703	40	993
Littell, Norris. (See Moss and Littell.)						
Littell, William H., and J. R. Scofield; said Scofield assignor to B. T. Bailey, Charles City, Iowa. Planter and roller	367,006	July 19	1706	459	40	339
Little, Daniel P. N., San Francisco, Cal. Metallic lathing	366,328	July 12	793	214	40	157
Little, Freeland, Adeline, Ill. Reed-organ	369,725	Sept. 13	568	155	40	1152
Little, Isaiah C., Williamstown, Vt. Veterinary lancet	361,533	Apr. 19	1621	420	39	319
Little, James R., assignor to Quincy Metal Wheel Company, Quincy, Ill. Metal wheel	361,637	Apr. 19	1781	461	39	350
Little, James R., assignor to Quincy Metal Wheel Company, Quincy, Ill. Manufacture of metal wheels	361,952	Apr. 26	2249	586	39	442
Little, James R., assignor to Quincy Metal Wheel Company, Quincy, Ill. Wheel. (Reis- sue)	10,842	June 7	587	157	39	1198
Little, James R., assignor to Quincy Metal Wheel Company, Quincy, Ill. Manufacture of metal wheels. (Reissue)	10,843	June 7	588	158	39	1198
Little, John. (See Dodson, Wilson P., assignor.)						
Little, John R., and C. T. Stoddard, West Stewartstown, assignors of one-third to J. I. Parsons, Colebrook, N. H. Wood plug for nail or other holes	370,200	Sept. 20	1287	343	40	1292
Little, Joseph B., Winnipeg, Manitoba, Canada. Safety water-gage	363,071	May 17	1426	377	39	753
Little, Robert R., South Shields, county of Durham, assignor of one-half to J. Hall, New- castle-on-Tyne, England. Construction of timber roofs	367,759	Aug. 2	614	166	40	566
Little, Robert R., South Shields, county of Durham, assignor of one-half to J. Hall, New- castle-on-Tyne, England. Apparatus for heating feed-water	367,760	Aug. 2	615	166	40	567
Little, Tempeth J. (See Snyder, Frederick, assignor.)						
Little, Tempette J. (See Snyder, Frederick, assignor.)						
Littlefield, Charles A., assignor of one-half to E. A. Tuttle and J. T. Milne, Fall River, Mass. Heddle for cross-weaving	363,072	May 17	1427	378	39	754
Littlefield, Charles A., assignor to E. A. Tuttle and J. T. Milne, Fall River, Mass. Loom for cross-weaving	371,081	Oct. 4	496	{ 124 125	{ 41	98
Littlefield, Dennis G., assignor to Littlefield Stove Company, Albany, N. Y. Oven for cooking stoves and ranges. (Reissue)	10,837	May 24	2440	633	39	958
Littlefield, Hazen S. (See Hastings and Littlefield.)						
Littlefield, John A., Boston, Mass. Theater-chair	364,944	June 14	1070	279	39	1295
Littlefield Stove Company. (See Littlefield, Dennis G., assignor.) (Reissue.)						
Littlejohn, Charles F., Bridgeport, Conn., assignor of one-half to E. B. Welch, Cambridge, Mass. Work-plate for sewing-machines	363,655	May 24	2250	583	39	922
Littlejohn, Charles F., Bridgeport, Conn., assignor of one-half to E. B. Welch, Cambridge, Mass. Take-up device for sewing-machines	363,656	May 24	2251	583	39	922
Littleton, Charles M., Shirley, Ill. Boot-jack	374,076	Nov. 29	2689	722	41	1012
Litzenberger, Calvin I., Catasauqua, Pa. Punching-machine	371,772	Oct. 18	1473	381	41	308
Lively, James M. (See Reese, George A., assignor.)						
Livengood, Winfield S., assignor of two-thirds to C. L. Ballintine and H. W. Severance, Kan- sas City, Mo. Baling-press	375,078	Dec. 20	1325	346	41	1319
Livermore, Charles F., trustee. (See Waite, Henry E., assignor.)						
Livermore, Charles W., Providence, R. I. Fountain-pen	363,526	May 24	2063	536	39	886
Livermore, Frederick W., New York, N. Y. Corkscrew	375,368	Dec. 27	1716	450	41	1404
Livingston, Charles L., Battle Creek, Mich. Door-bell	370,269	Sept. 20	1376	369	40	1309
Livingston, Francis M., Newark, N. J. Pressure-regulator	357,720	Feb. 15	1429	375	38	706
Livingston, George D. (See Smith and Livingston.)						
Livingston, George W., New Corner, Ind. Washing-machine	358,681	Mar. 1	390	93	38	976
Livingston, James W., New York, N. Y. Sanding apparatus for street-cars	360,600	Apr. 5	303	74	39	58
Livingston, Taliaferro B., and J. L. Smith, Fernandina, Fla. Car-platform	369,292	Aug. 30	2784	742	40	1020
Livingstone, Frederick D., Springfield, Mass. Sash-fastener	356,143	Jan. 18	1222	324	38	249
Livingstone, William, Jersey City, N. J. Caster	369,191	Aug. 30	2647	704	40	993
Livingstone, William, Jersey City, N. J. Furniture-caster	370,270	Sept. 20	1377	369	40	1309
Livor, Henry M. (See Wheeler and Cokely, assignors.) (Reissue.)						
Ljung, John, Nelson, Minn. Gearing	367,532	Aug. 2	257	73	40	500

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Lloyd, E. B., <i>et al.</i> (See Bartlett, Henry F., assignor.)						
Lloyd, E. Starr. (See Sagendorph, Frank E., assignor.)						
Lloyd, Evan, assignor of two-thirds to J. A. McCormick and W. Johnston, Pittsburg, Pa. Jar for well-boring.....	369,726	Sept. 13	569	155	40	1152
Lloyd, George E., Chicago, Ill. Blackleading-machine.....	362,983	May 17	1305	346	39	729
Lloyd, George E., Chicago, Ill. Routing-machine.....	366,329	July 12	794	214	40	158
Lloyd, George E., Chicago, Ill. Wood-planing machine.....	367,417	Aug. 2	83	23	40	467
Lloyd, George E., Chicago, Ill. Shaving-machine for curved plates.....	367,987	Aug. 9	949	256	40	640
Lloyd, George E., Chicago, Ill. Stereotyper's saw.....	375,369	Dec. 27	1717	450	41	1404
Lloyd, George E., and C. S. Partridge, assignors to A. N. Kellogg Newspaper Company, Chicago, Ill. Stereotype-plate-finishing machine.....	369,192	Aug. 30	2648	704	40	993
Lloyd, Gordon W., Detroit, Mich. Steam-radiator.....	369,863	Sept. 13	766	205	40	1188
Lloyd, Harlan P. (See Sagendorph, Longley L., assignor.)						
Lloyd, Harlan P., <i>et al.</i> (See Keene, George C., assignor.)						
Lloyd, Thomas, Paterson, N. J. Safe for fire-works.....	372,811	Nov. 8	809	216	41	629
Loane, J. Whitford, Jr., Baltimore, Md. Window-awning.....	359,931	Mar. 22	2250	566	38	1347
Loch, Joseph, New York, N. Y. Line-fastener.....	356,691	Jan. 25	1989	522	38	402
Lochbihler, Don A., and G. L. Edloff, assignors of one-third to H. E. Dennis, Detroit, Mich. Rocking-chair.....	375,325	Dec. 20	1658	435	41	1385
Lochmann, Oscar P., Gohlis, near Leipsic, Saxony, Germany. Musical box.....	374,127	Nov. 29	2760	{ 741 742 }	{ 41 41 }	{ 1025 1025 }
Lochner, John W., and N. Oester, Aurora, Ind. Device for aging and purifying liquors.....	370,549	Sept. 27	1801	479	40	1394
Locke, John F., Rye, N. H. Bracket for stages or scaffolds.....	365,830	July 5	98	27	40	20
Locke, Joseph, Medford, assignor to E. D. Libbey, Winchester, Mass. Ornamenting glass-ware.....	356,409	Jan. 18	1591	418	38	319
Locke, Joseph, Glenwood, and S. O. Richardson, Jr., Wakefield, Mass. Apparatus for making and burning gaseous fuel.....	371,956	Oct. 25	1748	453	41	370
Locke, Joseph S., Spartanburg, Ind. Machine for making wire-and-slat fences.....	364,120	May 31	2917	756	39	1054
Locke, Nathaniel C., Salem, Mass. Safety-track for railways.....	364,121	May 31	2919	757	39	1054
Locke, Sylvanus D. (See Parkinson and Locke.)						
Locke, Sylvanus D., Hoosick Falls, N. Y. Underground wire and steam street-conduit.....	355,330	Jan. 4	53	14	38	12
Locke, Sylvanus D., Hoosick Falls, N. Y. Railway cross-tie and fastening.....	356,002	Jan. 11	1010	266	38	205
Locke, Sylvanus D., Hoosick Falls, N. Y. Self-closing gas-burner.....	357,840	Feb. 15	1606	416	38	738
Locke, Sylvanus D., Hoosick Falls, N. Y. Car-coupling.....	358,465	Mar. 1	60	15, 16	38	914
Locke, Sylvanus D., Hoosick Falls, N. Y. Method of and mechanism for testing fabrics and other sheet materials.....	360,103	Mar. 29	2547	{ 648 649 }	{ 38 38 }	{ 1409 1409 }
Locke, William J., San Antonio, Tex. Plow.....	365,615	June 28	2074	541	39	1506
Locke, Willie F., assignor of one-half to J. E. Robertson, Concord, N. H. Insulator.....	360,354	Mar. 29	2917	743	38	1477
Locker, Alfred, assignor to E. P. Gleason Manufacturing Company, New York, N. Y. Atmospheric gas-burner for heating purposes.....	364,270	June 7	94	27	39	1107
Lockfaw, John A., Wilmington, N. C. Rice-mill.....	365,191	June 21	1434	378	39	1371
Lockhardt, Fred T. (See Armstrong, John B., assignor.)						
Lockhart, Albert E., East Cambridge, Mass. Fastening device for casket-covers, &c.....	360,315	Mar. 29	2864	729	38	1468
Lockhart, Andrew J., Marshfield, Oreg. Can-labeling machine.....	359,932	Mar. 22	2251	567	38	1347
Lockhart, George, New York, N. Y. Curtain-pole attachment.....	366,330	July 12	795	215	40	158
Lockhead, Charles D., Middletown, N. Y. Fishing-hook.....	373,991	Nov. 29	2567	690	41	988
Lockrow, Calvin, Detroit, Mich. Combined folding bed and wardrobe.....	370,879	Oct. 4	189	49, 50	41	37
Lockwood, Elias R. (See Walker and Lockwood.)						
Lockwood, Henry H., Rochester, assignor of one-half to J. Smith, Gates, N. Y. Bolt.....	363,074	May 17	1430	379	39	755
Lockwood, John P., Charleston, S. C. Cotton-stalk cutter.....	372,858	Nov. 8	874	{ 233 234 }	{ 41 41 }	{ 640 640 }
Lockwood, Rhodes, Boston, Mass. Fountain-pen.....	369,016	Aug. 30	2414	641	40	946
Lockwood, Rhodes, assignor to Davidson Rubber Company, Boston, Mass. Inkstand.....	359,214	Mar. 8	1139	296	38	1120
Lockwood, Samuel T. (See White and Lockwood.)						
Lockwood, Samuel T., Chicago, Ill. Packer for bran and other articles. (Reissue).....	10,827	Apr. 19	1826	473	39	357
Lockwood, Thomas D., Melrose, Mass. Automatic telephone-exchange.....	372,378	Nov. 1	140	42	41	496
Loder, Frederick M., New York, N. Y. Shoe or glove fastener.....	371,082	Oct. 4	497	125	41	98
Lodge, Davis & Co. (See Winchell, James F., assignor.)						
Loeber, John, Brooklyn, N. Y. Combined photographic camera and plate holder.....	363,833	May 31	2509	{ 651 652 }	{ 39 39 }	{ 976 976 }
Loeffelholz, Adam, Milwaukee, Wis. Lantern.....	370,201	Sept. 20	1289	343	40	1292
Loeffler, Otto W., New York, N. Y. File.....	368,097	Aug. 9	1101	292	40	668
Loehner, August, St. Louis, Mo. Combined ratchet-drill and die-stock.....	366,965	July 19	1659	445	40	331
Loesner, Hans, and M. De Bravura, New York, N. Y. Conduit for underground conductors.....	360,316	Mar. 29	2865	729	38	1468
Loewe & Co., Ludw., Commandit-Gesellschaft auf Actien. (See Roth, Carl, assignor.)						
Loewen Bros. (See Walker, James F., assignor.)						
Loewenthal, William, Hoboken, N. J. Dental plugger.....	361,768	Apr. 26	1968	514	39	390
Loffer, Solomon, Maitland, Mo. Hog-tendon cutter.....	375,555	Dec. 27	1969	513	41	1453
Lofts, Ezra, Cambridge, England. Fire-place or stove.....	367,149	July 26	1917	517	40	386
Lofts, Ezra, Cambridge, England. Cooking-range.....	367,150	July 26	1918	518	40	386
Loftus, James, Trenton, assignor of two-thirds to J. H. Patterson, Monmouth County, and G. W. Clayton, Mercer County, N. J. Non-conducting composition.....	363,834	May 31	2512	.....	39	977
Loftus, John, assignor of one-half to P. Kinnear, Albany, N. Y. Device for separating cream from milk and churning the cream.....	356,003	Jan. 11	1012	266	38	205
Logan, Cyrus F., Ticonderoga, N. Y. Digester for wood pulp.....	361,015	Apr. 12	898	227	39	170
Logan, James R., Fargo, Dak. Ter. Feed-rack.....	366,412	July 12	895	241	40	177
Logan, Jane, <i>et al.</i> (See McCarty, William F. M., assignor.)						
Logan, John. (See Marsh, Logan, and Church.)						
Logan, John J., Halifax, Nova Scotia, Canada. Speed-governor.....	367,418	Aug. 2	85	23	40	467
Logan, Thomas H., Lowell, assignor to Sawyer Spindle Company, Boston, Mass. Bolster for spinning-spindles.....	375,709	Dec. 27	2194	571	41	1493
Logan, Walter S., <i>et al.</i> (See Isbell, Robert H., assignor.)						
Logan, William P., assignor to himself and A. Cochran, Trenton, N. J. Anchor for posts.....	373,240	Nov. 15	1460	384	41	757
Loher, Anton, Quincy, Ill. Horse-collar.....	361,881	Apr. 26	2149	557	39	423
Lohman, Louis, Jacksonville, Fla. Arrangement of Artesian wells and devices connected therewith for actuating water-wheels.....	372,690	Nov. 8	602	164	41	594
Löhnert, Hermann. (See Jenisch, Waldemar, assignor.)						
Lombard, Benjamin A., Stockton, Cal. Horse-power.....	357,212	Feb. 8	694	179	38	559
Lombard, Levi W. (See Fox and Lombard.)						
Lombard, Levi W., Boston, Mass. Cartridge-shell.....	373,529	Nov. 22	1914	507	41	854
Lombard, Levi W. and N., Boston, Mass. Steam steering apparatus.....	372,691	Nov. 8	604	164	41	594
Lombard, Nathaniel. (See Lombard, Levi W. and N.)						
Lombard, Warren P., New York, N. Y. Cord attachment for picture-frames.....	368,292	Aug. 16	1394	368	40	732
Lombas, Joseph A., assignor of one-half to P. R. Melançon, Lockport, La. Machine for manufacturing and bleaching sugar.....	365,616	June 28	2075	541	39	1506

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Lomen, Mons P., Mayville, Dak. Ter. Draft-equalizer.....	372,859	Nov. 8	876	234	41	641
Lomont, Francois T., assignor of one-half to J. S. Larwill, Fort Wayne, Ind. Road-making machine.....	365,138	June 21	1365	{ 361 362 }	{ 39 }	1357
Long, Andrew L. (See Barager and Long.)						
Long, Benjamin, Boulder, Colo. Gun-sight.....	370,344	Sept. 20	1479	396	40	1329
Long, Charles B., Worcester, Mass. Spirit-level.....	372,921	Nov. 8	964	262	41	657
Long, Charles R., et al. (See Sweney, Charles E., assignor.)						
Long, Ellis O., W. O., and H. S., Hayesville, Ohio. Hay-elevator.....	365,528	June 28	1946	{ 506 507 }	{ 39 }	1482
Long, George S., Hartford, Conn. Paper barrel.....	356,073	Jan. 11	1112	294	38	223
Long, Herbert S. (See Long, Ellis O., W. O., and H. S.)						
Long, Jacob, Asbury Park, N. J. Hinge.....	373,837	Nov. 29	2350	631	41	946
Long, John, Parish, N. Y. Spring-tooth harrow.....	369,115	Aug. 30	2559	680	40	974
Long, John E., New York, N. Y. Hand fire-extinguisher.....	368,293	Aug. 16	1395	368	40	732
Long, John M., Hamilton, Ohio. Welding and cutting machine.....	366,848	July 19	1513	405	40	302
Long, John T., Menominee, Wis., assignor to himself and O. L. Seymour, La Porte, Ind. Photographic-print washer.....	361,070	Apr. 12	971	246	39	185
Long, Joseph. (See Kramer, John, assignor.)						
Long, Malcolm W., Harrisburg, Pa. Electric motor.....	358,682	Mar. 1	391	94	38	976
Long, Malcolm W., Harrisburg, Pa. Railway-signal.....	359,512	Mar. 15	1572	403	38	1208
Long, Malcolm W., Harrisburg, Pa. Electric-railway circle.....	365,345	June 21	1657	433	39	1413
Long, Malcolm W., Harrisburg, Pa. Mechanical movement.....	366,331	July 12	796	215	40	158
Long, Nathan H., Muncie, Ind. Automatic gate.....	375,171	Dec. 20	1459	381	41	1345
Long, Ora E., Holden, Mo. Car-coupling.....	365,139	June 21	1370	362	39	1358
Long, R. Webster. (See Kidder and Long.)						
Long, T. Avery, Howard, Pa. Vehicle heater and lamp.....	363,149	May 17	1535	405	39	775
Long, Thomas A., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Operating chair.....	370,071	Sept. 20	1097	{ 290 291 }	{ 40 }	1256
Long, Thomas A., Sweet Valley, S. P. Filley, Pittston, and F. N. Ruggles, Lehman, Pa.; said Long and Filley assignors of one-sixth to said Ruggles. Horse-cover support.....	373,779	Nov. 22	2262	607	41	921
Long, William C., Arcadia, Kans. Car-coupling.....	372,545	Nov. 1	385	104	41	544
Long, Williard O. (See Long, Ellis O., W. O., and H. S.)						
Longacre, Matthias R., Philadelphia, Pa. Cash register and indicator.....	369,193	Aug. 30	2650	705	40	993
Longfellow, Robert C., Fostoria, Ohio. Surgical table.....	363,751	May 24	2390	{ 620 621 }	{ 39 }	948
Longstreet, George B., et al. (See Barber, Orson R., assignor.)						
Lonngren Kelly Plow Manufacturing Company. (See Keliy, George A., assignor.)						
Lonnon, George S., and F. Mallett, South Pueblo, Colo. Bolt-cutter.....	372,756	Nov. 8	695	192	41	610
Looker, Robert S., Springfield, Ohio. Sewing-machine.....	361,426	Apr. 19	1485	{ 383 384 }	{ 39 }	292
Looker, Robert S., Springfield, Ohio. Sewing-machine.....	361,427	Apr. 19	1487	384	39	293
Looker, Robert S., Springfield, Ohio. Sewing-machine table.....	364,358	June 7	207	57	39	1128
Loom Manufacturing Company. (See Widmer, Charles, assignor.)						
Loomis, Charles W., Otisville, N. Y. Wagon-brake.....	374,547	Dec. 6	548	143	41	1152
Loomis, D. S. (See Jordan, Horatio, assignor.)						
Loomis, John F., Shelby, Iowa. Pitman or pump rod.....	364,423	June 7	301	83	39	1145
Loomis, John F., Shelby, Iowa. Pitman or pump rod.....	371,895	Oct. 18	1666	430	41	345
Loomis, Leverett W., et al. (See Kalkhoff, Otto, assignor.)						
Loomis, Osborn P., Somerville, Mass. Electric-arc lamp.....	369,194	Aug. 30	2654	705	40	994
Loomis, Osborn P., Somerville, Mass. Electric lamp.....	369,349	Sept. 6	62	18	40	1045
Loomis, Walter F., Visalia, Ky. Toll-collector's register.....	355,406	Jan. 4	151	40	38	31
Loomis, Warren H., Fulton, N. Y. Thill-coupling.....	362,753	May 10	990	268	39	664
Loomis, William H., Alameda, Cal. Hose-patch.....	358,618	Mar. 1	301	72	38	979
Loos, John, Freeport, Ill. Trunk-caster.....	356,483	Jan. 25	1705	445	38	349
Loos, Vincenz, assignor of one-half to R. Oehlhey, Olbernhau, Saxony, Germany. Toy building-block.....	370,958	Oct. 4	331	82	41	65
Loper, Charles H., Hickory, N. C. Faucet.....	357,488	Feb. 8	1068	282	38	630
Loppentien, Johann D., Pittsburg, Pa. Violin.....	360,317	Mar. 29	2866	729	38	1468
Lord Acoustic Telephone Manufacturing Company. (See Lord, George W., assignor.)						
Lord, Charles W., Pawtucket, R. I. Bracelet.....	357,326	Feb. 8	843	220	38	586
Lord, George W., assignor to Lord Acoustic Telephone Manufacturing Company, Boston, Mass. Mechanical telephone.....	356,594	Jan. 25	1853	487	38	377
Lord, George W., Boston, Mass., assignor to Lord Acoustic Telephone Manufacturing Company, Portland, Me. Mechanical telephone.....	359,215	Mar. 8	1140	296	38	1120
Lord, George W., assignor to Lord Acoustic Telephone Manufacturing Company, Boston, Mass. Mechanical telephone.....	359,216	Mar. 8	1142	296	38	1120
Lord, George W., assignor to Lord Acoustic Telephone Manufacturing Company, Boston, Mass. Mechanical telephone.....	359,217	Mar. 8	1142	296	38	1120
Lord, George W., assignor to Lord Acoustic Telephone Manufacturing Company, Boston, Mass. Mechanical-telephone line.....	359,218	Mar. 8	1143	297	38	1121
Lord, George W., Boston, Mass., assignor, by mesne assignments, to Lord Acoustic Telephone Manufacturing Company, of Maine. Mechanical-telephone-line hanger.....	361,302	Apr. 19	1319	339	39	262
Lord, Henry S. (See Williams, William S., assignor.)						
Lord, Victor, Odessa, Del. Ore-roaster.....	365,393	June 28	1742	451	39	1441
Lord, Victor, Odessa, Del. Preparing phosphate rock for fertilizers.....	371,083	Oct. 4	498	125	41	98
Lord, Walter and W., Todmorden, county of York, England. Machine for opening and cleaning cotton, &c.....	369,350	Sept. 6	64	18	40	1046
Lord, Walter and W., Todmorden, county of York, England. Opening and scutching machine.....	373,899	Nov. 29	2440	655	41	963
Lord, Will. (See Lord, Walter and W.)						
Lord, Will, and J. Stocks, Todmorden, county of York, England. Carding-engine.....	359,618	Mar. 22	1771	450	38	1260
Lore, George W., Milwaukee, Wis. Draft-regulator for stoves, &c.....	356,047	Jan. 11	1072	282	38	216
Lorenz, John, Muskegon, Mich. Composition for artificial stone, &c.....	366,012	July 5	366	.....	40	69
Lorenz, Robert A. G., New York, N. Y. Clamp for strings.....	375,710	Dec. 27	2195	571	41	1494
Lorenz, Wilhelm, Karlsruhe, Baden, Germany. Dies for reducing tubes.....	371,957	Oct. 25	1749	453	41	371
Lorenz, William A., Hartford, Conn., assignor of one-half to H. Behr, Brooklyn, N. Y. Upright-piano case.....	365,695	June 28	2189	572	39	1527
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper-bag machine.....	361,951	Apr. 26	2238	{ 583 584 585 586 }	{ 39 }	440
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to F. W. Leinbach and C. A. Wolle, Bethlehem, Pa. Paper-bag machine.....	374,309	Dec. 6	201	53	41	1083
oretz, Arthur J. L., Brooklyn, N. Y. Water regulator and accumulator for house purposes.....	357,128	Feb. 1	574	148	38	527

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Loring & Blake Organ Company. (See Loring, Elmer H., assignor.)						
Loring, Elmer H., assignor to Loring & Blake Organ Company, Worcester, Mass. Organ-case	357,559	Feb. 8	1187	312	38	652
Loring, George F., <i>et al.</i> (See Clough, William P., assignor.)						
Lorraine, Madison J. and C. T. Aubin, St. Louis, Mo. Car-coupling	369,195	Aug. 30	2655	706	40	994
Lorsch, Albert, New York, N. Y. Watch-case	361,168	Apr. 12	1129	285	39	214
Losch, Samuel A. (See Losch and Harner, assignors.)						
Losch, William G., and L. B. Harner, assignors of one-third to S. A. Losch, Pottsville, Pa. Steam-whistle	364,830	June 14	902	238	39	1264
Loss, Henry W., Edge Moore, Del. Gas-furnace	365,395	June 28	1745	452	39	1442
Lotstrom, Alexander (See Reindl and Lotstrom.)						
Lott, Charles G., assignor to A. Plamondon Manufacturing Company, Chicago, Ill. Belt-tightener	361,303	Apr. 19	1320	339	39	262
Lottman, Albert C., Houston, Tex. Mosquito-net frame	367,151	July 26	1922	518	40	387
Lottman, Charles F., Houston, Tex. Curing moss	363,150	May 17	1535		39	775
Lotz, Jacob, New Britain, Conn. Hat or coat hook	370,959	Oct. 4	332	82	41	65
Lotz, Keturah W., Jay County, Ind. Stove-pipe drum	355,616	Jan. 4	417	114	38	83
Loucks, Edwin, assignor to Ives, Blakeslee & Co., New York, N. Y. Ball-player's glove	368,724	Aug. 23	2008	531	40	858
Loucks, Wesley C., and C. W. Derrick, Avoca, N. Y. Wagon-jack	373,189	Nov. 15	1378	365	41	742
Loud, John J., Weymouth, Mass. Toy cannon	375,453	Dec. 27	1830	479	41	1427
Loud, Herbert. (See Lidback, John A., assignor.)						
Loud, Waldo A., Springfield, Mass. Ratchet-and-pawl device	367,419	Aug. 2	86	23	40	467
Loudenback, Heylas D. (See Kizer, Carey F., assignor.)						
Louderback, Edwin, Philadelphia, Pa. Window-blind	369,254	Aug. 30	2726	725	40	1009
Loughran, Thomas, Trenton, N. J. Tea-pot	356,484	Jan. 25	1706	445	38	349
Loughridge, Jacob E., assignor of one-eighth to J. McCormick, Philadelphia, Pa. Braking mechanism for railway-cars	368,842	Aug. 23	2169	575	40	890
Loughridge, William. (See Simpson, Luther R., assignor.)						
Loughry, William A., Odessa, Nebr. Fumigator	372,477	Nov. 1	284	78	41	525
Louis, Martin C., Dayton, Ohio. Lunch-box	375,495	Dec. 27	1882	492 493	41	1437
Lounsbury, William H. (See Thayer, William S., assignor.)						
Loury, Josiah C., Jr., Huntersville, W. Va. Automatic switch	363,075	May 17	1430	379	39	755
Louthian, Lafayette D., Kennedale, Tex. Motive power	367,307	July 26	2151	579	40	429
Love, Charles W., Fairpoint, Ohio. Broom-holder	373,780	Nov. 22	2264	607	41	921
Love, Elmer M. (See Love, Milton and E. M.)						
Love, Francis M. and S. C., Shelbyville, Ind. Wire-fence machine	360,451	Apr. 5	79	21	39	16
Love, Henry A. (See Nifenecker, Eugene, assignor.)						
Love, Henry M. (See Crane, William H., assignor.)						
Love, Joseph, Chicago, Ill. Water-heating apparatus	364,181	May 31	3006	780	39	1071
Love, Milton and E. M., Corry, Pa. Fuel-gas burner	366,780	July 19	1420	380	40	285
Love, Samuel C. (See Love, Francis M. and S. C.)						
Love, Thomas C., Jr., Philadelphia, Pa. Book-binding	362,754	May 10	991	269	39	664
Love, William E., Madison, Tenn. Hand seed-sower	364,424	June 7	302	83	39	1146
Love, William H., Fort Scott, Kans. Ticket-holder	372,379	Nov. 1	146	42	41	497
Lovedahl, Axel. (See Gardner and Lovedahl.)						
Lovegrove, Thomas G., Philadelphia, Pa. Water-gage	374,606	Dec. 13	632	165	41	1178
Lovejoy, Albert J., <i>et al.</i> (See Fellows, Alvah L., assignor.)						
Lovejoy, Henry L., Lowell, Mass. Fruit-jar	365,928	July 5	246	65	40	48
Lovejoy, Son & Co. (See Ferguson, James H., assignor.)						
Loveland, William B. (See De Graff, William L., assignor.)						
Loveland, William B., Grand Rapids, Mich. Stilt	356,366	Jan. 18	1532	403	38	308
Loveland, William T., New Gretna, N. J. Furling top-sails	363,340	May 17	1791	469	39	824
Lovelidge, Thomas, Philadelphia, Pa. Let-off mechanism for looms	355,617	Jan. 4	418	114 115	38	83
Lovell Arms Company, John P. (See Bean, Edward D., assignor.)						
Lovell Manufacturing Company. (See Hay, John F., assignor.)						
Loveren, Arthur D., West Somerville, assignor to T. Gogin, C. E. Burbank, Boston, O. P. Prall and A. D. Loveren, Somerville, Mass., trustees. Vapor-stove	360,601	Apr. 5	304	74	39	58
Lovett, Antoine de B., and E. S. Goff, Geneva, N. Y. Hay-tedder	367,007	July 19	1708	460	40	339
Lovibond, Joseph W., Salisbury, county of Wilts, England. Colorimeter	363,835	May 31	2512	652	39	977
Loving, Leslie W. (See Morrow, Loving, and McGowan.)						
Low, A. Augustus. (See Johnson and Low.)						
Low, A. Augustus, Brooklyn, N. Y. Type-distributing apparatus	372,076	Oct. 25	1939	500 501	41	403
Low, A. Augustus, Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Lead and rule holder	356,845	Feb. 1	144	39	38	449
Low, A. Augustus, Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-containing channel	360,104	Mar. 29	2550	649	38	1409
Low, A. Augustus, Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-containing channel	360,355	Mar. 29	2918	743	38	1477
Low, A. Augustus, Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-containing channel	360,356	Mar. 29	2921	743	38	1477
Low, A. Augustus, Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-channel	360,357	Mar. 29	2923	743	38	1477
Low, A. Augustus, Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-containing channel	360,358	Mar. 29	2926	744	38	1477
Low, A. Augustus, Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus	363,836	May 31	2514	653	39	978
Low, Frank B., <i>et al.</i> (See Teed, Eamor A., assignor.)						
Low, James E. (See Sprogle, Ralph O., assignor.)						
Low, James E., Chicago, Ill. Device for forming dental plugs	358,282	Feb. 22	2229	588	38	860
Lowden, Leonidas C., Lawrence, Ind. Wire-fence machine	365,312	June 21	1606	419	39	1403
Lowden, Samuel, Chicago, Ill. Manufacture of cement	373,992	Nov. 29	2568		41	988
Lowden, Thomas, Lowell, assignor of one-half to D. M. Skidmore, Browne Township, Mich. Plow-jointer	362,023	Apr. 26	2355	614	39	459
Lowdon, Edward J. B. (See Gordon and Lowdon.)						
Lowdon, John C., Kansas City, Mo. Check-punch	362,755	May 10	992	269	39	664
Lowe, Frank W. (See Sullivan, Cornelius F., assignor.)						
Lowe, Frank W., Boston, Mass. Garment-supporter	359,730	Mar. 22	1926	489	38	1289
Lowe, George H., Middletown, N. Y. Belt-shifter	367,533	Aug. 2	258	73	40	500
Lowe, Henry B., Kokomo, Ind. Tax duplicate and receipt	365,396	June 28	1747	453	39	1442
Lowe, Henry C., administrator. (See Stoddard, E. Fowler.)						
Lowe, Jacob S., Geneva, Ohio. Blackboard-eraser	366,674	July 19	1275	340	40	258

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Lowe, Oscar F., Hampton, Iowa. Singletree.....	373,025	Nov. 8	1129	302	41	685
Lowe, Robert E., Brooklyn, N. Y. Blouse-waist.....	365,480	June 28	1865	485	39	1464
Lowell Machine Shop. (See Canning, William P., assignor.)						
Lowell Machine Shop. (See Fenderson, George S., assignor.)						
Lowell Machine Shop. (See Fisher, Charles H., assignor.)						
Lowell Oiler Company. (See Humphrey, Henry P., assignor.)						
Lowell, Seth W., Belfast, N. Y. Evaporator.....	365,752	June 28	2282	593	39	1543
Lowell, Walter N., assignor to Waterbury Brass Company, Waterbury, Conn. Cartridge-primer.....	355,877	Jan. 11	823	215	38	167
Lowenson, Bernard B., Louisville, Ky. Stencil.....	373,838	Nov. 29	2351	631	41	946
Löwenthal, Louis, Dresden, Saxony, Germany. Chin-holder for violins.....	368,893	Aug. 23	2237	595	40	904
Lowerre, Thomas R., New York, N. Y. Bottle-corking machine.....	365,753	June 28	2283	593	39	1543
Lowery, Woodbury, Washington, D. C., assignor to S. L. Mitchell, Chicago, Ill. Album-clasp.....	361,304	Apr. 19	1321	339	39	262
Lowes, Joseph E. (See Fletcher, John R., assignor.)						
Lowman, John, Camberwell, county of Surrey, and J. Howard, London, England. Machine for grinding corks.....	372,629	Nov. 1	511	140	41	567
Lowman, William, Marionville, Pa. Well-digging apparatus.....	363,151	May 17	1536	406	39	775
Lowman, William W., assignor to Crowell Manufacturing Company, Greenastle, Pa. Fertilizer-distributor.....	358,744	Mar. 1	474	116	38	992
Lowndes, George S., Atlanta, Ga. Bed-bottom.....	373,900	Nov. 29	2441	{ 655 656 }	{ 41 40 }	963
Lowne, Robert M., Leicester House, East End, Finchley, county of Middlesex, England. Attachment for orguinettes.....	369,293	Aug. 30	2785	{ 742 743 }	{ 40 40 }	1020
Lowney, Walter M., et al. (See Knowlton, Charles H., assignor.)						
Lowrie, Harvey C., Denver, Colo. Portable wash-stand.....	358,743	Mar. 1	472	{ 115 116 450 }	{ 38 41 }	991
Lowrie, Harvey C., Denver, Colo. Slotted conduit-cover and means for controlling the same.	375,370	Dec. 27	1719	{ 451 452 }	{ 41 41 }	1405
Lowrie, William, Finsbury, county of Middlesex, England. Steam-engine.....	361,169	Apr. 12	1129	285	39	214
Lowry, Charles S., et al. (See Ray, Alexander, assignor.)						
Lowry, Francis H., et al. (See James, Charles H., assignor.)						
Lowry, Oswin W. (See Bowyer, John M., assignor.)						
Loy, Daniel O., Monticello, Ill. Tile-work.....	362,846	May 10	1102	{ 298 299 }	{ 39 39 }	685
Loyd, Alexander T., Chicago, Ill. Bullet.....	355,653	Jan. 4	485	129	38	95
Loyd, George A., Loveland, Colo. Ribbon-holder.....	369,537	Sept. 6	306	84	40	1092
Loyd, Stephen, Darlington, S. C. Tonic pill.....	356,723	Jan. 25	2029		38	410
Lozier, E. Murray, assignor to J. Cunningham Son & Company, Rochester, N. Y. Attachment for holding vehicles in cars.....	362,453	May 3	540	150	39	578
Lubbering, George J., Cincinnati, Ohio. Automatic uncoupling device.....	368,157	Aug. 9	1180	315	40	683
Lubin, David, Sacramento, Cal. Harrow.....	357,151	Feb. 1	607	156	38	532
Lubin, David, Sacramento, Cal. Hoeing and raking machine.....	357,841	Feb. 15	1607	{ 416 417 }	{ 38 38 }	739
Lubin, David, Sacramento, Cal. Clod-crusher.....	357,842	Feb. 15	1609	417	38	739
Lubin, David, Sacramento, Cal. Clod-crusher.....	357,843	Feb. 15	1611	418	38	739
Lubin, David, Sacramento, Cal. Clod-crusher.....	357,844	Feb. 15	1612	{ 418 419 }	{ 38 38 }	740
Lubin, David, Sacramento, Cal. Clod-crusher.....	360,707	Apr. 5	445	114	39	83
Lubin, David, assignor of two-thirds to H. Weinstock and A. Bonnheim, Sacramento, Cal. Clod crusher and pulverizer.....	357,152	Feb. 1	608	{ 156 157 }	{ 38 38 }	532
Lubin, David, assignor of two-thirds to H. Weinstock and A. Bonnheim, Sacramento, Cal. Clod crusher and pulverizer.....	362,454	May 3	541	{ 150 151 }	{ 39 39 }	579
Lubin, Leon T. J., Boston, Mass. Elastic bandage for varicose veins, &c.....	366,590	July 12	1151	308	40	228
Lubin, Siegmund. (See Frawley, John J., assignor.)						
Lubin, Siegmund, J. J. Frawley, and A. Abraham, Philadelphia, Pa.; said Frawley and Abraham assignors to said Lubin. Nose-rest for eyeglasses.....	356,410	Jan. 18	1592	418	38	319
Lucas, Cornelius, Brooklyn, N. Y. Bed or crib.....	369,605	Sept. 6	404	112	40	1112
Lucas, Andrew H., St. Louis, Mo. Hull and keel for steamships.....	368,725	Aug. 23	2008	532	40	858
Lucas, George C., Cleveland, Ohio. Metal-sawing machine.....	371,466	Oct. 11	1030	268	41	209
Lucasse, Ary, Kalamazoo, Mich. Collar and necktie fastener.....	360,166	Mar. 29	2655	670	38	1427
Luce, Edward J., New Bedford, Mass. Construction of tennis-rackets.....	364,596	June 7	552	149	39	1192
Luce, Edwin W., Bolivar, N. Y. Throttle-valve.....	372,077	Oct. 25	1944	501	41	404
Luce Spring Hinge Company. (See Colvin, Benoni, assignor.)						
Luchini, Ferdinando, Natchitoches, La. Marine motor.....	361,305	Apr. 19	1322	{ 339 340 }	{ 39 39 }	262
Luchs, Eduard, Nuremberg, Bavaria, Germany. Automatic link-motion for practical toys.	367,420	Aug. 2	87	23	40	468
Lucht, Carl C. L., Colberg, Prussia, Germany. Propelling and steering apparatus for vessels.....	366,849	July 19	1515	{ 405 406 }	{ 40 40 }	302
Lucier, Antoine, Winnipeg, Manitoba, Canada. Motor.....	362,024	Apr. 26	2356	614	39	459
Lüders, Reinhold, assignor to L. Henschel, Berlin, Germany. Brake for axles.....	374,607	Dec. 13	633	165	41	1178
Ludewigs, Otto, assignor of one-half to H. Wolters, Salzwedel, Prussia, Germany. Velocipede.....	369,017	Aug. 30	2416	641	40	947
Ludington, Francis H., St. Louis, Mo. Pen-holder.....	365,011	June 14	1164	305	39	1311
Ludington, Francis H., St. Louis, Mo. Chromatic-printing machine.....	365,313	June 21	1607	419	39	1403
Ludlam, J. S., et al. (See Ober, Oliver, assignor.)						
Ludlow, Francis M., St. Louis, Mo. Feed-water heater.....	357,934	Feb. 15	1730	452	38	761
Ludlow, Josiah A., assignor of one-half to J. T. Seeley, Paterson, N. J. Hinge.....	368,539	Aug. 16	1741	463	40	799
Ludlow, Washington I., Cleveland, Ohio. Cable-railway system.....	358,781	Mar. 1	528	129	38	1001
Ludlow, Washington I., Cleveland, Ohio. Working and forming secondary batteries.....	362,639	May 10	819	224	39	632
Ludlow, Washington I., Cleveland, Ohio. Secondary or storage battery.....	362,640	May 10	821	{ 224 225 }	{ 39 39 }	633
Ludwig, Frederick, Glencoe, Minn. Boiler-furnace.....	372,422	Nov. 1	204	58	41	508
Ludwig, Henry A., and P. S. Reid, Philadelphia, Pa. Joint for spectacle-bows.....	355,830	Jan. 11	747	195	38	153
Luebke, Adolph E. G. (See Broich and Luebke.)						
Luebker, Henry, et al. (See Gerstein, Dederick, assignor.)						
Lueders, Julia, St. Louis, Mo. Chair.....	358,466	Mar. 1	62	16	38	915
Luehrs, Michel D., Cleveland, Ohio. Machine for turning tapers.....	371,691	Oct. 18	1353	350	41	282
Lufkin, John W., Winchester, Mass. Button-hole-stitching machine.....	355,878	Jan. 11	823	{ 215 216 }	{ 38 38 }	167
Luft, Henry A., New York, N. Y. Combined chair, cabinet, and desk.....	361,882	Apr. 26	2150	558	39	423
Lugo, Orazio. (See Thompson and Lugo.)						
Lugo, Orazio, New York, assignor to C. M. Thompson, Brooklyn, N. Y. Electric battery.	362,847	May 10	1103	299	39	685

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Lugrin, Henry A., Brooklyn, N. Y. Stop-watch	360,777	Apr. 5	539	140	39	101
Lukens, Benjamin, Pendleton, Ind. Feed-cutter	367,050	July 26	1768	477	40	359
Lukens, Richard L., Peoria, Ill. Pulverizing-harrow	364,831	June 14	902	238	39	1264
Lukens, Rudolph C., Broomall, Pa. Railway-tie	370,072	Sept. 20	1099	291	40	1257
Lumb, James, Elland, county of York, England. Lubricator	372,159	Oct. 25	2059	527	41	426
Lumb, William. (See Walker, Robert L., assignor.)						
Lumm, Conrad, Garrett, Ind. Eaves-trough hanger	370,073	Sept. 20	1099	291	40	1257
Lumpkin, George B., Lexington, Ga. Axle-nut	372,227	Oct. 25	2161	554	41	445
Lund, Henry O., Bridgeport, Conn. Toy pistol	372,630	Nov. 1	512	140	41	567
Lund, John C., Eau Claire, Wis. Fire-escape	360,810	Apr. 5	582	152	39	110
Lund, Peter. (See Marker, James, assignor.)						
Lundberg, Edward P. (See Linton, August W., assignor.)						
Lundeen, Jonas P., Wataga, Ill. Parlor-game apparatus	370,074	Sept. 20	1100	292	40	1257
Lundergan, John, Watervliet, N. Y. Potato-digger	372,757	Nov. 8	696	192	41	611
Lundie, John, Chicago, Ill. Concrete-mixer	366,591	July 12	1152	309	40	229
Lundin, Oliver. (See Lundin, Robert E., assignor.)						
Lundin, Robert E., assignor of three-fourths to S. W. and O. Lundin and O. P. Harris, Cedarville, Kans. Neck-yoke and pole-tip	369,606	Sept. 6	405	112	40	1112
Lundin, Samuel W., et al. (See Lundin, Robert E., assignor.)						
Lungren, Charles M., New York, N. Y. Regenerative gas-lamp. (Reissue.)	10,793	Jan. 4	513	136	38	101
Lungren, Charles M., New York, N. Y. Regenerative gas-lamp	357,962	Feb. 15	1768	{ 463 464 }	{ 38 38 }	{ 768 768 }
Lungren, Charles M., New York, N. Y. Gas-burner	365,831	July 5	99	28	40	21
Lungren, Charles M., New York, N. Y. Refractory filament for lighting	365,832	July 5	101	28	40	21
Lungren, Charles M., New York, N. Y. Incandescent gas-light	367,534	Aug. 2	259	74	40	501
Lungren, Charles M., New York, N. Y. Regenerative gas-lamp. (Reissue.)	10,871	Oct. 4	609	156	41	121
Lunkenheimer, Edmund, Cincinnati, Ohio. Lubricator	359,731	Mar. 22	1927	489	38	1289
Lunkenheimer, Edmund, Cincinnati, Ohio. Straight-way valve	360,167	Mar. 29	2656	670	38	1427
Lunkenheimer, Edmund, assignor to F. Lunkenheimer, Cincinnati, Ohio. Oil-cup. (Reissue)	10,819	Mar. 15	1729	439	38	1236
Lunkenheimer, Frederick. (See Lunkenheimer, Edmund, assignor.) (Reissue.)						
Lunn, Martha E., Elgin, Ill. Corset	371,511	Oct. 11	1097	285	41	223
Lunt, Chester, Penfield, Mich. Car-coupling	363,341	May 17	1792	469	39	825
Lunt, Wilbur F., et al. (See Eastman, Fred B., assignor.)						
Lupton, Nathan E., Ridgeville, and W. H. Starry, Trenton, Ohio. Grain-drill	362,848	May 10	1104	299	39	686
Lurkins, William, Milwaukee, Wis. Sectional steam-boiler	366,850	July 19	1517	406	40	303
Luscomb, Martin, et al. (See Snyder, Frederick H., assignor.)						
Lusk, George H., Pomona, Fla. Door-check	372,034	Oct. 25	1873	484	41	392
Lutes, Joseph P., Ridgeley, Mo. Lister-cultivator	368,894	Aug. 23	2238	595	40	904
Luther, Benjamin G., Worcester, Mass. Tilting table for wood-working machines	370,633	Sept. 27	1926	511	40	1418
Luther, George J. J., Aurora, Ind. Support for chairs, desks, and other articles of furniture	356,074	Jan. 11	1113	{ 294 295 }	{ 38 38 }	{ 223 223 }
Luthy, Adolph, New York, N. Y. Ear-ring	361,769	Apr. 26	1969	514	39	390
Luttet, James, Buffalo, N. Y. Combined candy-pail and show-case	365,346	June 21	1660	434	39	1414
Luttrell, William. (See Murchey and Luttrell.)						
Lutz, Damas. (See Rosenkranz, Adam, assignor.)						
Lutz, Hermann C., New York, N. Y. Piano-forte action	366,781	July 19	1421	380	40	285
Lutz, Hermann C., New York, N. Y. Piano tuning-pin	366,782	July 19	1422	381	40	285
Lutz, Mary. (See Lutz, Quirin and M.)						
Lutz, Quirin and M., Shaler, Pa. Combined ironing, fluting, and plaiting structure	357,614	Feb. 15	1269	333	38	677
Lutz, Ulysses S., Bloomsburg, Pa. Automatic snow-cleaning railway-switch	370,797	Oct. 4	64	17	41	15
Lutzner, M., et al. (See Gumtow, Hermann D. R., assignor.)						
Luyckx, Albert C. (See Roberts and Luyckx.)						
Luyckx, William J., et al. (See Roberts and Luyckx, assignors.)						
Luyster, John P. (See Miller and Luyster.)						
Luyster, John P., New York, N. Y. Apparatus for scraping and heaping snow	368,404	Aug. 16	1534	410	40	761
Luyster, John P., New York, N. Y. Apparatus for loading snow	370,345	Sept. 20	1481	396	40	1329
Luyties, Henry E., New York, N. Y. Bottle-stopper	366,732	July 19	1356	363	40	273
Luzmoor, John T., Hartford, Conn. Ladder	375,079	Dec. 20	1327	346	41	1319
Lyddon, Beadon R., Sycamore, Ill. Land-roller	372,984	Nov. 8	1054	282	41	673
Lykens, Harrison H., and W. E. Rodkey, Fredericksburg, Pa. Revolving blackboard	357,677	Feb. 15	1367	360	38	693
Lyle, James, Paisley, county of Renfrew, Scotland. Signal-lamp	362,895	May 10	1176	314	39	698
Lyle, William B., Ripon, Wis. Storm-door	366,489	July 12	994	270	40	198
Lyman, Charles H., Ansonia, Conn., assignor to Ansonia Brass and Copper Company and W. A. Hull, New York, N. Y. Suspension device for lamps	365,481	June 28	1866	485	39	1464
Lyman, Fordyce A., Cleveland, Ohio. Vapor-stove	361,170	Apr. 12	1132	286	39	215
Lyman, Fordyce A., Cleveland, Ohio. Funnel	374,875	Dec. 13	1009	264	41	1251
Lyman, J. Huntington. (See Swan, George W., assignor.)						
Lyman, Jonathan H. (See Swan, George W., assignor.)						
Lyman, William, Middlefield, Conn. Sight for fire-arms	366,121	July 5	507	137	40	96
Lyman, William, Middlefield, Conn. Sight for fire-arms	368,598	Aug. 23	1817	483	40	823
Lynch, Daniel, Minerva, N. Y. Car-starter	369,116	Aug. 30	2560	681	40	974
Lynch, Edward P., Davenport, Iowa. Tongueless wheel-cultivator	358,362	Feb. 22	2333	619	38	879
Lynch, Edward P., Davenport, Iowa. Neck-yoke	375,080	Dec. 20	1328	346	41	1320
Lynch, Edward P., Davenport, Iowa. Lister-plow	375,081	Dec. 20	1329	347	41	1320
Lynch, Henry H., San Francisco, Cal. Crossing for cable railways	359,396	Mar. 15	1402	359	38	1176
Lynch, Henry H., San Francisco, Cal. Dredger	365,140	June 21	1371	362	39	1358
Lynch, Hubbard C., Houston, Tex. Box-car-door fastener and spark-arrester. (Reissue)	10,855	Aug. 9	1210	323	40	689
Lynch, John, Washington, D. C. Electric-wire conduit	371,202	Oct. 11	667	170	41	139
Lynch, John C., and J. A. Petty, Sycamore, Ohio. Rope halter	370,346	Sept. 20	1482	397	40	1329
Lynch, John T., and E. J. Fitzgerald, Holyoke, Mass. Liquid-discharging apparatus	370,707	Sept. 27	2036	542	40	1439
Lynch, Theophilus A. (See Kirkland and Lynch.)						
Lynch, William, Wallkill, N. Y. Gearing for mowers and reapers	375,172	Dec. 20	1460	382	41	1346
Lynch, William J., Cleveland, Ohio. Brush-broom holder	363,752	May 24	2394	621	39	949
Lynde, Frederick C., Manchester, county of Lancaster, England. Automatic vending apparatus	366,490	July 12	995	271	40	198
Lynde, Frederick C., Manchester, county of Lancaster, England. Automatic vending apparatus	371,145	Oct. 4	585	{ 149 150 }	{ 41 41 }	{ 115 115 }
Lynde, Frederick C., Manchester, county of Lancaster, England. Automatic vending apparatus	371,146	Oct. 4	587	150	41	115
Lynde, Frederick C., Manchester, county of Lancaster, England. Automatic vending apparatus	372,270	Oct. 25	2224	570	41	458
Lynde, James H., Manchester, county of Lancaster, England. Automatic fire-extinguisher and sprinkler	371,512	Oct. 11	1097	{ 285 286 }	{ 41 41 }	{ 223 223 }

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Lynn, Elmore P. (See Lynn, Mirabeau N. and E. P.)						
Lynn Engine Company. (See Lynn, Mirabeau N. and E. P., assignors.)						
Lynn, Frederick W., assignor of one-half to A. W. Palmer, Natick, Mass. Spring-button.	357,327	Feb. 8	843	220	38	587
Lynn, John. (See Murphy and Lynn.)						
Lynn, Lewis L., et al. (See Knaus, Joseph H., assignor.)						
Lynn, Mirabeau N. and E. P., Rising Sun, Ind., assignors, by mesne assignments, to Lynn Engine Company, Dayton, Ohio. Direct-acting steam-engine	366,122	July 5	509	{ 137 138 }	{ 40	96
Lynn, Mirabeau N. and E. P., Rising Sun, Ind., assignors, by mesne assignments, to Lynn Engine Company, Dayton, Ohio. Direct-acting steam-engine	366,228	July 12	655	{ 178 179 }	{ 40	131
Lyon, Adolph, Detroit, Mich. Carpet-beater	361,638	Apr. 19	1783	461	39	350
Lyon, Baxter, assignor to H. and S. C. Howard, Providence, R. I. Button or stud	374,366	Dec. 6	282	75	41	1100
Lyon, Benjamin W., and R. Munro, San Francisco, Cal. Car-axle lubricator	365,754	June 28	2287	594	39	1544
Lyon, Calvin H. (See McHose, William, assignor.)						
Lyon, Delos C., Girard, Ohio. Frame for sash-pulleys	369,648	Sept. 6	467	131	40	1124
Lyon, Edmund, Rochester, N. Y. Packing and storing vessel	358,863	Mar. 8	666	167	38	1031
Lyon, Edmund, Rochester, N. Y. Traveling-bag	359,219	Mar. 8	1145	297	38	1121
Lyon, Edmund, Rochester, N. Y. Locomotive turn-table	359,220	Mar. 8	1145	{ 297 298 }	{ 38	1121
Lyon, Frank G., Jersey City, N. J. Fire-alarm	358,864	Mar. 8	667	167	38	1031
Lyon & Healy. (See Durkee, George B., assignor.)						
Lyon & Healy. (See Post and Durkee, assignors.)						
Lyon & Healy. (See Sueur, Edward, assignor.)						
Lyon, Henry A. (See Boyd and Hurlbutt, assignors.)						
Lyon, James A., Clarksville, Tenn., assignor to W. A. Hoeveler, Pittsburg, Pa. Gas-regulator	360,389	Mar. 29	2974	754	38	1486
Lyon, James W., Brooklyn, N. Y. Manufacture of banjo-brackets	360,534	Apr. 5	205	50	39	40
Lyon, John O., Quincy, Ill. Swing	364,182	May 31	3008	781	39	1071
Lyon, William, and J. B. Gorrell, La Otto, Ind. Device for preventing the depression of railway-rail joints	375,423	Dec. 27	1788	468	41	1418
Lyon, William H., Milo, Iowa. Hay rake and loader	365,082	June 21	1278	338	39	1342
Lytle, Andrew J., Hillsborough, Ohio. Carriage-curtain fastener	359,979	Mar. 22	2328	585	38	1361
Lytle, Felton M., Boston, Mass. Lamp-wick	373,935	Nov. 29	2481	666	41	971
Lytton, Marshall P. (See Jackson and Lytton.)						
Maas, John B., Humboldt, Mich. Steam-actuated valve	368,294	Aug. 16	1397	{ 368 369 }	{ 40	732
Maas, John B., Humboldt, Mich. Rock-drill chuck	368,295	Aug. 16	1399	369	40	733
Maas, John B., Humboldt, Mich. Machine for dressing rock-drills	368,296	Aug. 16	1400	369	40	733
Maassen, Ferdinand, Gotha, Fla. Coffee-roaster	373,531	Nov. 22	1917	508	41	854
Mabbey, Jesse T., assignor of one-half to D. Asire, Forest, Ohio. Railway-crossing	367,008	July 19	1709	460	40	339
Mabbs, John, Chicago, Ill. Pneumatic elevator	355,697	Jan. 11	550	145	38	117
Mabie, George W., Brooklyn, N. Y. Case for pencils	374,194	Dec. 6	41	11	41	1054
MacCabe, James, et al. (See Wilson, Samuel R., assignor.)						
MacCoy, James S., Brooklyn, N. Y. Making a smooth surface on stone, &c	373,746	Nov. 22	2212	592	41	913
MacDonald, Edwin J. (See Miller, Charles E., assignor.)						
MacDonald, John L., Shakopee, Minn. Combined fire-escape, fire-extinguisher, and elevator	365,833	July 5	102	28, 29	40	21
Mac El'Rey, Joseph H., Philadelphia, Pa. Car-heater	372,478	Nov. 1	285	79	41	525
MacFarlane, James, Malden, Mass. Subway for electric-current wires or cables	361,276	Apr. 19	1280	328	39	255
MacGruthar, Alexander. (See Warde, George H., assignor.)						
MacIlvaine, John L., West New Brighton, N. Y. Heel for overshoes	368,479	Aug. 16	1655	441	40	783
MacIvor, Ralph W. E., Sydney, New South Wales, Australia. Apparatus for treating night-soil	361,367	Apr. 19	1409	363	39	278
MacKenzie, Cornelius. (See McIntyre, Augustin W., assignor.)						
MacKenzie, John, Cleveland, Ohio. Tire-indicator	363,657	May 24	2252	584	39	922
MacKnight, John W., New York, N. Y. Artificial pavement	373,295	Nov. 15	1534	405	41	771
MacLaine, Alexander, No. 1 Queen's Elms, Belfast, county of Antrim, Ireland. Piston for steam-engines	373,936	Nov. 29	2482	666	41	971
MacMahon, Michael, deceased; D. D. MacMullen, Brooklyn, N. Y., administrator. Lubricator	368,774	Aug. 23	2073	549	40	871
MacMullen, Dickson D., administrator. (See MacMahon, Michael.)						
Macarty, Daniel J., et al. (See Clapp, E. Dwight, assignor.)						
Macbeth, George A., Glenisla Ealing, county of Middlesex, England. Vending apparatus	364,028	May 31	2791	723	39	1030
Macbeth, James. (See Sundström, Karl J., assignor.)						
Macdonald, Osborne, New York, N. Y. Paper-board	368,540	Aug. 16	1742	463	40	799
Macdonald, David, assignor to W. Stone, Toronto, Ontario, Canada. Process by which paper may be made to adhere to metal	357,213	Feb. 8	695	.....	38	559
Macdonald, James, Chicago, Ill. Friction-clutch	371,606	Oct. 18	1230	320	41	258
Macdonald, James, assignor to U. S. Salt Roll Company, Chicago, Ill. Machine for compressing salt rolls	366,175	July 5	575	154	40	108
Macdonald, Joshua S., Providence, R. I. Needle	356,880	Feb. 1	199	55	38	458
Macduff, Daniel, North Grafton, Mass. Wire-covering machine	357,489	Feb. 8	1070	282	38	630
Mace, Stewart R., Moulton, Iowa. Barrel-stand	371,335	Oct. 11	848	217	41	174
Mack, Adolph. (See Threlfall, Thomas, assignor.)						
Mack, Ed. E. (See Mambert, Isaac H., assignor.)						
Mack, William A., Norwalk, Ohio. Sewing-machine	356,203	Jan. 18	1298	343	38	263
Mack, William A., Norwalk, Ohio, assignor to Domestic Sewing Machine Company, of Ohio. Stand for sewing or other machines	367,920	Aug. 9	849	229	40	622
Mack, William B., Boston, Mass. Switch for three-rail railways	361,428	Apr. 19	1488	384	39	293
Mackay, George H., assignor of one-half to O. Woodbury, Salem, N. H. Shaft-hanger	362,291	May 3	308	85	39	533
Mackay, William M., assignor to Denny Brothers Company, Newark, N. J. Water-heating attachment for hot-air furnaces	371,269	Oct. 11	759	195	41	157
Mackenzie, Joseph D., assignor of one-half to W. Atchison, London, England. Means for use in the glazing of roofs and other structures	356,652	Jan. 25	1942	508	38	393
Mackert, Frank J., and W. J. Hagne, Allegheny, Pa. Gas-stoppage alarm	362,222	May 3	229	66	39	517
Mackey, James M., Belle Vernon, Ohio. Thill-coupling	368,843	Aug. 23	2171	575	40	890
Mackey, John C., Phoenix, N. Y. Thermotic circuit-closer	366,176	July 5	577	155	40	109
Mackey, John C., Syracuse, N. Y. Automatic fire-extinguisher	366,177	July 5	578	155	40	109
Mackey, Philip J. (See Markmann, John, assignor.)						
Mackie, Richardson, Wyman, Mich. Fence	358,283	Feb. 22	2231	588	38	860
Mackintosh, Edward D., Brooklyn, assignor to P. Pryibil, New York, N. Y. Lubricating the bearings of upright shafts	366,632	July 12	1210	323	40	239
Mackintosh, Edward D., Brooklyn, assignor to P. Pryibil, New York, N. Y. Circular sawing machine	366,633	July 12	1212	324	40	240

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Mackintosh, John W., Boston, Mass. Apparatus for purifying water	370,798	Oct. 4	66	17	41	15
Macklin, Athol B. (See Kock, Macklin, McDermott, and O'Brien.)						
Macklin, Athol B. (See Pyncheon, Macklin, Mulloy, McDermott, and O'Brien.)						
Macklin, Harry J., Ulverstone, county of Lancaster, England. Fastening wheels or pulleys upon shafts	362,167	May 3	158	46	39	504
Maclay, James D. (See Calder and Maclay.)						
Macleod, John T., Providence, R. I. Flanging-machine	364,425	June 7	304	83, 84	39	1146
Macleod, Malcolm, Manchester, county of Lancaster, England. Asphalt pavement	361,953	Apr. 26	2250		39	442
Macleod, Malcolm, Philadelphia, Pa. Joining-bar for uniting glass and other plates	370,075	Sept. 20	1101	292	40	1257
Macmillan, James R., Chicago, Ill. Clasp or buckle	369,067	Aug. 30	2493	662	40	961
Macnab, James, Milton, county of Stirling, Scotland, assignor to A. J. Keenan, Philadelphia, Pa. Process of and machine for printing web fabrics	364,029	May 31	2795	724	39	1031
Macnab, William, Jr. (See Macnab, William, Sr., and W., Jr.)						
Macnab, William, Sr., and W., Jr., Forest Gate, county of Essex, England; said William Macnab, Sr., assignor to W. Macnab, Jr. Apparatus for separating by subsidence solid matters from liquids, &c	367,308	July 26	2151	579	40	430
Macomb, William A., Stamford, N. Y. Car-coupling	367,819	Aug. 9	705	191	40	592
Macomber, Edward F. (See Hutchins and Macomber.)						
Macomber, Horatio N., Walkerton, Ind. Wire-twisting device	368,480	Aug. 16	1656	442	40	783
Macomber, Sanford W., Troy, N. Y. Lamp-bracket	362,098	May 3	63	19	39	485
Macphail, James, and F. M. Needham, Rockford, Ill. Vehicle-wheel	366,332	July 12	799	215	40	158
Macrae, Roderick, Baltimore, Md. Combined volt and ampere meter	359,619	Mar. 22	1772	451	38	1260
Macrae, Roderick, Baltimore, Md., and C. F. Tavener, assignors of one-third to P. Deveney, Boston, Mass. Electric switch	366,634	July 12	1215	324	40	240
Mactear, James, Westminster, county of Middlesex, England. Revolving furnace for chemical processes	361,429	Apr. 19	1489	{ 384 385 }	{ 39 39 }	{ 293 293 }
Madden, James W., Brooklyn, N. Y. Insect-trap	364,359	June 7	208	57	39	1128
Madden, Patrick J., Rochester, N. Y. Flushing attachment for water-closets	374,310	Dec. 6	202	54	41	1084
Madden, Patt, Burlington, Vt. Folding or wardrobe bedstead	360,894	Apr. 12	710	188	39	139
Madden, Samuel L., assignor of one-half to J. H. Sumser, Louisville, Ky. Post-hole digger	375,556	Dec. 27	1970	513	41	1453
Madden, William, San Francisco, Cal. Shield for boiler-furnaces	356,285	Jan. 18	1414	373	38	286
Maddox, William J., Scranton, Pa. Reclining sofa or divan	365,266	June 21	1544	403	39	1391
Ma'sen, Carl H., Copenhagen, Denmark. Coffee-roaster	375,641	Dec. 27	2096	546	41	1476
Maehlen, Albert, assignor to E. C. Atkins, Indianapolis, Ind. Saw tempering and straightening machine	363,296	May 17	1729	453	39	813
Magee, Alexander, and D. C. Lee, St. Louis, Mo.; said Magee assignor to said Lee. Washing-machine	359,933	Mar. 22	2254	567	38	1347
Mages, John, Canandaigua, N. Y. Musical transposition-indicator	371,692	Oct. 18	1354	350	41	283
Magill, John W., Shelbina, Mo. Hay-stacker	358,937	Mar. 8	774	194	38	1051
Magner, Thomas J. (See King and Magner.)						
Magoon, Charles H. (See Burton and Magoon.)						
Magoon, Charles H., et al. (See Goss, Edward, assignor.)						
Magruder, Benjamin H., trustee. (See Magruder, William T., assignor.)						
Magruder, Richard B., Sandy Spring, assignor of one-half to J. H. Schenkel, Baltimore, Md. Lamp attachment	363,658	May 24	2254	584	39	923
Magruder, William T., assignor to B. H. Magruder, trustee, Port Gibson, Miss. Cotton-planter	371,773	Oct. 18	1474	381	41	308
Maguire, Charles R., Baltimore, Md. Spring-balance scale	366,491	July 12	996	271	40	198
Maguire, Charles R., Baltimore, Md. Ash-sifter	366,492	July 12	997	271	40	199
Maguire, Edward, Lemont, Ill. Fire-extinguisher for car-heaters	374,745	Dec. 13	820	215	41	1216
Maguire, Emma A., et al. (See Brown, Iona E., assignor.)						
Maguire, John, assignor of one-half to R. Carroll, Toronto, Ontario, Canada. Drain-tile trap	360,602	Apr. 5	306	75	39	58
Maguire, Mary A., executrix. (See Maguire, Terrence G.)						
Maguire, Mary M., et al. (See Brown, Iona E., assignor.)						
Maguire, Terrence G., deceased, Boston, Mass.; M. A. Maguire executrix. Reclining-chair	360,454	Apr. 5	83	22	39	17
Mahaffey, James B., assignor of one-fourth to D. Wilson and E. B. Hunting, Baltimore, Md. Planing and matching machine	362,896	May 10	1178	315	39	699
Mahaffey, James B., assignor of one-fourth to D. Wilson and E. B. Hunting, Baltimore, Md. Cutter-head	363,753	May 24	2395	621	39	949
Mahan, Frank M., and A. R. Hendrix, Chicago, Ill. Car starter and brake	359,266	Mar. 15	1205	315	38	1140
Mahan, John H., Cleveland, Ohio. Sewing-machine seat	373,144	Nov. 15	1299	346	41	729
Mahar, Michael W., assignor of one-half to C. Repp and G. Rentz, Dayton, Ohio. Combined bulletin-board and broom-holder	360,359	Mar. 29	2929	744	38	1478
Maher, Michael, Fremont, Nebr. Car-coupling	364,659	June 14	630	170	39	1215
Maher, Michael R., Zanesville, Ohio. Bung	373,592	Nov. 22	2001	530	41	869
Maher, Patrick, et al. (See Kane, Charles, assignor.)						
Maher, Thomas. (See Kritch, Karl E., assignor.)						
Mahler, Isaac J., assignor of one-half to A. De Riesthal, New York, N. Y. Lantern	372,546	Nov. 1	386	104	41	544
Mahling, Carl H., New York, N. Y. Piano-frame	372,035	Oct. 25	1875	484	41	392
Mahnken, Henry, Brooklyn, assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph receiver	367,720	Aug. 2	561	153	40	557
Mahuken, Henry, Brooklyn, assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph	368,541	Aug. 16	1743	464	40	799
Mahnken, Henry, and C. L. Healy, Brooklyn, assignors to Commercial Telegram Company, New York, N. Y. Printing-telegraph receiver	363,178	July 5	579	155	40	109
Mahon, Isaac B., Dunkirk, Ohio. Fence	360,318	Mar. 29	2867	730	38	1468
Mahon, Isaac B., Dunkirk, Ohio. Combined step-ladder and ironing-board	373,464	Nov. 22	1795	{ 477 478 }	{ 41 41 }	{ 832 832 }
Mahon, James, Dunkirk, Ohio. Fence	368,098	Aug. 9	1102	292	40	668
Mahoney, Daniel H. (See Hall and Mahoney.)						
Mahoney, John, and D. W. Shockley, Wilmington, Del. Railway cross-tie	370,634	Sept. 27	1927	511	40	1419
Mahony, John J., San Francisco, Cal. Dumb-waiter stop	356,948	Feb. 1	280	77, 78	38	473
Mahony, John J., San Francisco, Cal. Dumb-waiter stop	367,152	July 26	1923	519	40	387
Mahony, Michael, Troy, N. Y. Steam-boiler	365,141	June 21	1372	363	39	1359
Mahony, Michael, Troy, N. Y. Boiler	367,988	Aug. 9	951	256	40	640
Mahurin, Melville B., Lima, Ohio. Vehicle-hub	369,538	Sept. 6	307	85	40	1093
Maiche, Louis, Paris, France. Telegraphy	364,271	June 7	95	27	39	1107
Maiche, Louis, Paris, France. Telegraphy	366,229	July 12	662	{ 179 180 }	{ 40 40 }	{ 133 133 }
Maignen, Prosper A., London, England. Compound for purifying water	355,773	Jan. 11	664		38	139
Maillard, Louis, Galt, Ontario, Canada. Machine for cutting dental burrs	364,832	June 14	904	{ 239 240 }	{ 39 39 }	{ 1264 1264 }

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Mailloux, James A. (See Robin and Mailloux.)						
Main, Charles A., Grand Blanc, Mich. Folding table	362,522	May 10	636	180	39	601
Main, William, Brooklyn, N. Y. Electric inductive translator	361,770	Apr. 26	1970	{ 514 515 516 346 347 567 568 347 348 349 }	{ 39 41 38 41 }	390 729 1348 730
Main, William, Brooklyn, N. Y. Dynamo-electric machine and electromotor	373,145	Nov. 15	1299	406	39	775
Main, William, Brooklyn, N. Y., assignor to River and Rail Electric Light Company, of West Virginia. Secondary battery	359,934	Mar. 22	2255	406	38	1348
Main, William, Brooklyn, assignor to River and Rail Electric Light Company, New York, N. Y. Electromotor and dynamo-electric machine	373,146	Nov. 15	1308	406	41	730
Maine, Myron M., South Manchester, Conn. Press for dental flasks, &c	363,152	May 17	1537	406	39	775
Mains, John F. (See Jones and Mains.)						
Maish, Jacob, Warsaw, Ind. Shaft-supporter	358,211	Feb. 22	2134	563	38	841
Makepeace, Augustus N. (See Balcom and Allen, assignors.)						
Makutchan, Charles A. (See Makutchan, William H. and C. A.)						
Makutchan, William H. and C. A., Buda, Ill. Road-cart	357,015	Feb. 1	380	101	38	493
Malam, William. (See Sellers and Malam.)						
Malcolm, Robert J., assignor of two-thirds to J. D. Abraham and N. K. Aylward, Cincinnati, Ohio. Steam or hot-water generator	365,347	June 21	1661	434	39	1414
Mallard, William S., Darien, Ga. Fruit-picker	355,941	Jan. 11	927	242	38	188
Mallen, John J. (See McDonnell and Mallen.)						
Mallet-Guy, Francis, Paris, France. Machine for the manufacture of wire spirals	372,423	Nov. 1	206	58	41	509
Mallett, Frank. (See Lonnon and Mallett.)						
Maillette, George W., Trenton, N. J. Velocipede	369,864	Sept. 13	767	205	40	1188
Mallette & Raymond Manufacturing Company. (See Assmus, Adolph, assignor.)						
Mallison, Harvey P., Philadelphia, Pa. Chain for transmitting motion	356,324	Jan. 18	1474	388	38	296
Malloch, Andrew M. (See Brogan and Malloch.)						
Mallon, James, assignor to M. Mallon, New Orleans, La. Stubble-digger and cultivator	367,989	Aug. 9	952	257	40	641
Mallon, Minnie. (See Mallon, James, assignor.)						
Mallory, D. D. (See Brooks, William D., assignor.) (Reissue.)						
Mallory, Frank B., Flemington, N. J. Shutter-worker	360,031	Mar. 29	2419	614	38	1385
Mallory, Frank B., Flemington, N. J. Shutter-worker	360,708	Apr. 5	447	114	39	83
Mallory, Frank B., Flemington, N. J. Shutter-worker	362,168	May 3	159	46	39	504
Mallory, Frank B., Flemington, N. J. Shutter-worker	373,147	Nov. 15	1315	349	41	731
Mallory, Frank B., Flemington, N. J. Combined shutter worker and fastener	374,608	Dec. 13	634	{ 165 166 }	{ 41 41 }	1178
Mallory, Frank B., Flemington, N. J. Shutter-fastener	374,981	Dec. 20	1193	310	41	1295
Malone, Bernard J., Brooklyn, N. Y. Metal-cutting machine	360,032	Mar. 29	2421	{ 614 615 }	{ 38 38 }	1385
Maloney, Calvin, Lower Lake, Cal. Ax	374,483	Dec. 6	448	116	41	1131
Maloney, James A., Washington, D. C. Auriphone	362,099	May 3	64	19	39	485
Maloney, James A., Washington, D. C. Auriphone	362,100	May 3	66	20	39	486
Maloney, James A., assignor to Pneumatic Signal and Telephone Company, Washington, D. C. Pneumatic annunciator	358,363	Feb. 22	2334	619	38	879
Malony, David C., and J. Schrenk, Brunswick, Mo. Cultivator	369,799	Sept. 13	663	180	40	1169
Maloy, James W., Somerville, Mass. Stone-sawing machine	364,833	June 14	908	{ 240 241 }	{ 39 39 }	1265
Maloy, James W., Somerville, Mass. Machine for curve-sawing in stone	364,834	June 14	910	241	39	1266
Maloy, James W., Somerville, Mass. Mounting diamonds on saws	364,835	June 14	911	241	39	1266
Maloy, James W., Somerville, assignor to American Marble Company, Boston, Mass. Stone-cutting saw	357,214	Feb. 8	696	180	38	559
Malpass, George, Jr., Philadelphia, Pa. Knitting-machine needle	363,153	May 17	1538	406	39	776
Maltby, Frank D., assignor of one-half to L. G. Hine, Washington, D. C. Steam-boiler	360,233	Mar. 29	2749	{ 697 698 }	{ 38 38 }	1445
Maltby, John S., Glenwood, N. Y. Fire-kindler	373,465	Nov. 22	1796	478	41	832
Maltby, Jonathan B. S., Troy, N. Y. Wire-cloth to be used in the manufacture of paper	367,990	Aug. 9	953	257	40	641
Maltby, Sidney, Washington, D. C. Oscillating engine	365,267	June 21	1546	403	39	1392
Maltby, William J. (See French and Maltby.)						
Mambert, Isaac H., Lansingburg, assignor to E. E. Mack, Albany, N. Y. Shirt	357,016	Feb. 1	381	101	38	493
Mammel, Frankie. (See Burwell and Mammel.)						
Man, B. A. (See Wilson, George W., assignor.)						
Man, James H., Denver, Colo., assignor of one-half to F. Farrell, Ansonia, Conn. Sugar-cane-crushing mill	375,679	Dec. 27	2155	{ 560 561 }	{ 41 41 }	1486
Manahan, John G., et al. (See Kehr, Cyrus, assignor.)						
Manchester, Francis L. (See Richardson, John D., assignor.)						
Manchester, William D. (See Warren, Leverett D., assignor.)						
Mandrill, George W., Gloversville, N. Y. Glove-fastener	374,609	Dec. 13	636	166	41	1179
Mandt, Targe G., Stoughton, Wis. Vehicle-tongue	355,541	Jan. 4	320	85	38	65
Mandt, Targe G., Stoughton, Wis. End-gate	355,542	Jan. 4	321	86	38	65
Mandt, Targe G., Stoughton, Wis. Vehicle-axle	362,756	May 10	994	269	39	664
Mandt, Targe G., Stoughton, Wis. Running-gear for vehicles	375,642	Dec. 27	2097	546	41	1476
Mandt, Targe G., Stoughton, Wis. Thill-coupling	375,643	Dec. 27	2098	546	41	1476
Mandt, Targe G., Stoughton, Wis. Whiffletree-hook	375,644	Dec. 27	2099	547	41	1477
Mangum, Daniel D., Lanesville, Conn. Wire-stretcher	359,084	Mar. 8	962	247	38	1087
Mankey, Frederick, Williamsport, Pa. Machine for cross-cutting wood	356,286	Jan. 18	1415	{ 373 374 }	{ 38 38 }	286
Manley, Edward B., East Meriden, Conn. Pliers	370,960	Oct. 4	333	83	41	65
Manley, Thomas, Prince Albert, North West Territory, Canada. Saw-mill dog	338,159	Feb. 22	2059	542	38	826
Manley, William, Rochester, N. Y., assignor to J. W. Brooks, trustee, Cambridge, Mass. Cutter-head for boots or shoes	374,416	Dec. 6	346	90	41	1112
Manley, William, Rochester, N. Y., assignor to J. W. Brooks, trustee, Cambridge, Mass. Rotary cutter	374,417	Dec. 6	348	90	41	1112
Manley, William, Rochester, N. Y., assignor to J. W. Brooks, trustee, Cambridge, Mass. Rotary cutter for trimming boot and shoe heels	374,418	Dec. 6	349	91	41	1112
Manley, William, Rochester, N. Y., assignor to J. W. Brooks, trustee, Cambridge, Mass. Heel-trimming machine	374,419	Dec. 6	350	91	41	1113
Manly, Frank B., Malta, Ohio. Plow	369,727	Sept. 13	570	{ 155 156 }	{ 40 40 }	1152
Mann, Abram S., Rochester, N. Y. Cord-fastener	374,982	Dec. 20	1194	310	41	1295
Mann, Adalaide E. (See Mann, Edgar E., assignor.)						
Mann, Bernard. (See Pannill, Henry, assignor.)						
Mann, Charles. (See Mann, Newton M., assignor.)						
Mann, Edgar E., assignor to A. E. Mann, Newburg, N. Y. Fog-signal	361,430	Apr. 19	1491	385	39	293

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Mann, Franklin P. (See Mann, Gustave M. and F. P.)						
Mann, Gustave M. and F. P., Milwaukee, Wis. Convertible chair	373,296	Nov. 15	1535	406	41	771
Mann, Newton M., assignor to C. Mann, Rochester, N. Y. Duplex automatic draft-regulator	366,493	July 12	998	271	40	199
Mann, Thomas E. Gladbrook, Iowa. Printing-press	355,407	Jan. 4	153	40	38	31
Mann, Thomas W., Holyoke, Mass. Drawing-table	363,154	May 17	1539	406	39	776
Mann, William, Montreal, Quebec, Canada. Refuse-burner	371,203	Oct. 11	668	170	41	140
Mann, William B., Baltimore, Md. Dental-engine hand-piece	359,798	Mar. 22	2035	516	38	1308
Mann, William B., Baltimore, Md. Vulcanizing apparatus	365,083	June 21	1279	339	39	1343
Mann, William B., Baltimore, Md. Can-testing machine	369,539	Sept. 6	309	85	40	1093
Mann, William B., Baltimore, Md. Flexible shaft	369,865	Sept. 13	768	205	40	1189
Mann, William B., Baltimore, Md. Pressure-gage attachment for automatically controlling gas-supply	373,078	Nov. 15	1204	321	41	711
Mann, William B., Baltimore, Md. Dental engine	373,079	Nov. 15	1206	321	41	711
Mann, William D., New York, N. Y. Lavatory appliance for railway-cars	371,084	Oct. 4	500	{ 125 126 }	{ 41 41 }	99
Mann, William D., assignor to Mann's Boudoir Car Company, New York, N. Y. Railway-car	356,653	Jan. 25	1942	509	38	393
Mann, William D., assignor to Mann's Boudoir Car Company, New York, N. Y. Wash-stand for boudoir and other cars	366,413	July 12	896	241	40	177
Mann, William D., New York, N. Y., assignor to Mann's Boudoir Car Company. Ventilating apparatus	366,414	July 12	896	242	40	177
Mann, William I. (See Blackburn and Mann.)						
Mannering, Hollis, Syracuse, N. Y. Milk-cooler	368,726	Aug. 23	2010	532	40	859
Mannes, William H., Colorado Springs, Colo. Tongs	370,961	Oct. 4	333	83	41	66
Mannesmann, Max, Remscheid, Germany. Manufacture of seamless tubes	361,954	Apr. 26	2251	{ 586 587 }	{ 39 39 }	442
Mannesmann, Max, Remscheid, Germany. Manufacture of seamless tubes	361,959	Apr. 26	2260	588	39	443
Mannesmann, Max, Remscheid, Germany. Manufacture of seamless tubes	361,960	Apr. 26	2262	589	39	443
Mannesmann, Max, Remscheid, Germany. Manufacture of seamless tubes	361,961	Apr. 26	2263	589	39	443
Mannesmann, Max, Remscheid, Germany. Manufacture of seamless tubes	361,962	Apr. 26	2265	589	39	444
Mannesmann, Max, Remscheid, Germany. Manufacture of seamless tubes	361,963	Apr. 26	2267	590	39	444
Mannesmann, Reinhard, Remscheid, Germany. Manufacture of seamless tubes	361,955	Apr. 26	2254	587	39	442
Mannesmann, Reinhard, Remscheid, Germany. Manufacture of seamless tubes	361,956	Apr. 26	2256	587	39	442
Mannesmann, Reinhard, Remscheid, Germany. Manufacture of seamless tubes	361,957	Apr. 26	2257	{ 587 588 }	{ 39 39 }	443
Mannesmann, Reinhard, Remscheid, Germany. Manufacture of seamless tubes	361,958	Apr. 26	2259	588	39	443
Mannesmann, Reinhard, Remscheid, Prussia, Germany. Rolling damaskeened rods	365,482	June 28	1868	485	39	1465
Manning, James A., Danville, assignor of one-fourth to E. M. Wilhite, Hendricks County, Ind. Bridle-bit	368,776	Aug. 23	2075	550	40	871
Manning, Lawarance, Nokomis, Ill. Brick-kiln	368,775	Aug. 23	2074	549	40	871
Mann's Boudoir Car Company. (See Mann, William D., assignor.)						
Mansell, Edwin, Coldwater, Mich. Steam-radiator	360,319	Mar. 29	2868	730	38	1468
Mansfield, Edwin L., Boston, Mass. Flue-cleaner	373,747	Nov. 22	2214	592	41	913
Mansfield, George J., Viola, Tenn. Harrow	355,458	Jan. 4	213	57	38	43
Mansfield, George W., Jersey City, N. J. Electro-magnetic ore-separator	359,085	Mar. 8	964	{ 247 248 }	{ 38 38 }	1088
Mansfield, George W., Cleveland, Ohio. Means for supporting overhead conductors	371,336	Oct. 11	849	218	41	174
Mansfield, James E., Sherman, Tex. Baling-press	364,836	June 14	912	{ 241 242 }	{ 39 39 }	1266
Mansfield, James W., Boston, Mass. Manufacturing hollow masts	371,204	Oct. 11	668	171	41	140
Manter, Charles T., Bismarck, Mo. Carpet-stretcher	373,593	Nov. 22	2002	531	41	869
Mantor, James O., Northampton, Mass. Shovel-handle	369,800	Sept. 13	664	181	40	1169
Mantor, James O., Northampton, Mass. Metallic shovel-handle	370,150	Sept. 20	1216	322	40	1278
Manwaring, Dwight, Algona, Iowa. Cattle-stanchion	364,030	May 31	2796	724	39	1031
Mapel, William L., St. Louis, Mo. Feed-water heater	369,950	Sept. 13	905	241	40	1213
Mapes, Horace, Medora, Ill. Rope-trip	374,261	Dec. 6	126	32	41	1071
Mapes, William R. (See Chase, Sidney A., assignor.)						
Mapp, Harry R. (See Mapp, Richard A., assignor.)						
Mapp, Richard A., assignor of one-third to H. R. Mapp, Lynnhaven, Va. Machine for making cut nails	371,337	Oct. 11	850	218	41	174
Maquay, Samuel W., Tedworth Square, London, England. Primary battery	368,099	Aug. 9	1103	{ 292 293 }	{ 40 40 }	669
Maranville, Franklin, Clinton, Ohio. Dinner-pail	365,834	July 5	104	29	40	22
Marble, Albert P., and G. W. Knapp, Worcester, Mass. Purifying and aerating plant for the filtration and treatment of sewage and water in brooks or courses	366,333	July 12	800	216	40	158
Marble, Ezra, Jr., Boston, Mass. Fountain-pen	369,351	Sept. 6	65	18	40	1046
March & Co., P. G. (See Rogers, Winfield S., assignor.)						
March, Frank D. (See Bean, Frank, assignor.)						
March, Frank D. (See Holman and Bean, assignors.)						
Marchand, Henry E., New York, N. Y. Car-coupling	366,851	July 19	1517	406	40	303
Marchant, David, assignor of one-half to J. Dolese and J. H. Shepard, Chicago, Ill. Feed-regulator for crushing-machines	369,117	Aug. 30	2562	681	40	974
Marchant, Stuart F., Chicago, Ill. Pillow-sham holder	370,202	Sept. 20	1289	343	40	1292
Marchetti, Giulio, Halifax, county of York, England. Embossing-block	362,169	May 3	160	46, 47	39	504
Marchetti, Giulio, Halifax, county of York, England. Producing improved color effects in the manufacture of tapestry carpeting, &c.	363,900	May 31	2596	675	39	993
Marchetti, Giulio, Halifax, county of York, England. Producing improved color effects in the manufacture of tapestry carpeting, &c. (Reissue)	10,890	Dec. 20	1663	436	41	1386
Marcil, Michel, Amherst, Mass. Punch	358,683	Mar. 1	392	94	38	976
Marco, Joseph, Harlan, Iowa. Check-rower and corn-planter	365,397	June 28	1748	453	39	1443
Marcus, William N., et al. (See Shinn and Fagley, assignors.)						
Marcy, Frank M., Worcester, Mass. Spool or bobbin	366,415	July 12	898	242	40	178
Marcy, Frederick I. (See Covell, William W., assignor.)						
Marcy, Rufus G., Kansas City, Mo. Pipe-lifter	361,706	Apr. 26	1888	489	39	376
Marden, Aldis H., Waltham, Mass. Lamp-extinguisher for railway-cars	374,548	Dec. 6	549	143	41	1152
Marden, Aldis H., Waltham, Mass. Car-brake	374,798	Dec. 13	898	235	41	1231
Marden, William H., Stoneham, Mass. Laster's tack-can	361,226	Apr. 12	1218	310	39	231
Marean, Josiah T., Brooklyn, N. Y. Toy and motor for toys and light machinery	375,557	Dec. 27	1971	{ 513 514 }	{ 41 41 }	1453
Mareck, Frank, Baltimore, Md. Pattern-holder	367,218	July 26	2008	543	40	404
Marey, Fernand, and E. Colle, Paris, France. Self-closing stop-cock	362,025	Apr. 26	2357	615	39	460
Margach, Fred M., assignor of one-half to F. Roueche, Meadville, Pa. Gas cut-off	372,036	Oct. 25	1876	484	41	392
Margheri, Xenophon, San Francisco, Cal. Pool-table attachment	366,123	July 5	513	{ 138 139 }	{ 40 40 }	97

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Margot, Eugene F., Boston, Mass. Watch-case pendant.....	359,397	Mar. 15	1404	359	38	1176
Marhoeffer, John, assignor to J. H. Bierwith and F. Schnerring, New York, N. Y. Quilt- ing-machine.....	369,255	Aug. 30	2727	725 726 727 728	40	1009
Marion, Joseph, assignor to himself, J. Calverley, Brooklyn, B. Fischer and J. S. Valk, New York, N. Y. Hydrocarbon-burner.....	370,151	Sept. 20	1217	323	40	1278
Maris, Jared, Columbus, Ohio. Vehicle-hub.....	355,698	Jan. 11	551	145	38	117
Maris, Jared, Philadelphia, Pa., assignor to B. S. B. Company, Dayton, Ohio. Shell-band for hubs.....	364,122	May 31	2920	757	39	1055
Mark, John G., Omaha, Nebr. Interchangeable account-tablet.....	365,084	June 21	1281	339	39	1343
Mark, John W., New York, N. Y. Illuminating-tile.....	369,196	Aug. 30	2657	706	40	995
Markam, John C., Atlantic, Pa. Tire-bolt holder.....	365,142	June 21	1374	363	39	1359
Marker, James, Union City, assignor of one-half to P. Lund, Erie, Pa. Oil-can.....	372,160	Oct. 25	2001	527	41	426
Markgraf, Franz, assignor of one-half to E. Paltz, New York, N. Y. Glove-sewing machine.....	373,937	Nov. 29	2484	666 667	41	972
Markham, William F., Plymouth, Mich. Air-gun.....	372,161	Oct. 25	2062	527	41	426
Markland, William H., Brooklyn, assignor, by mesne assignments, to Tucker Electrical Manufacturing Company, of New York. Electric valve-controller.....	369,801	Sept. 13	665	181	40	1169
Markland, Wyllis H., Altoona, Pa. Electric-current indicator.....	371,958	Oct. 25	1751	453	41	371
Markle Engineering Company. (See Stoddard, Nolton F., assignor.)						
Markley, George J. (See Mitchell, David, assignor.)						
Markley, Harris P., Summerford, Ohio. Churn.....	358,048	Feb. 22	1895	501	38	798
Markmann, John, assignor of one-half to P. J. Mackey, Muscatine, Iowa. Shape-retainer for the breasts of garments.....	357,397	Feb. 8	940	247	38	606
Marks, Frank R. (See Poolman and Marks.)						
Marks, George E., Sound Beach, Conn. Artificial leg.....	366,494	July 12	1000	272	40	199
Marks, Isaac, New York, N. Y. Mechanism for transferring patterns.....	361,431	Apr. 19	1492	385	39	294
Marks, Rufus B., Newark, N. J. Wrench.....	364,765	June 14	800	211	39	1245
Marky, William, Lancaster, N. Y. Railway-car.....	360,033	Mar. 29	2425	615	38	1386
Marlin Fire Arms Company. (See Hepburn, Lewis L., assignor.)						
Marlin Fire-Arms Company. (See Rice, David H., assignor.)						
Marlin, John M., New Haven, Conn. Revolver.....	367,535	Aug. 2	260	74	40	501
Marlin, John M., New Haven, Conn. Revolving fire-arm.....	367,820	Aug. 9	707	191	40	593
Marlin, John M., New Haven, Conn. Revolving fire-arm.....	367,821	Aug. 9	708	191	40	593
Marlin, John M., New Haven, Conn. Revolver.....	368,599	Aug. 23	1820	484	40	824
Marlin, John M., New Haven, Conn. Velocipede.....	369,540	Sept. 6	311	85, 86	40	1093
Marlin, John M., New Haven, Conn. Velocipede.....	369,541	Sept. 6	313	86	40	1094
Marlin, John M., New Haven, Conn. Chain.....	371,607	Oct. 18	1232	321	41	259
Marlin, John M., New Haven, Conn. Revolving fire-arm.....	371,608	Oct. 18	1233	321	41	259
Marlin, Joseph H., Bloomington, Ind. Mole-trap.....	359,454	Mar. 15	1483	380	38	1192
Maron, Alfred C., and A. Böhm, Philadelphia, Pa. Safety railway-car.....	365,143	June 21	1374	363	39	1359
Maroney, Thomas, Weedsport, N. Y. Car-coupling.....	366,018	July 5	375	101	40	70
Marquette, Alanson A., Owego, N. Y. Boot or shoe heel.....	368,676	Aug. 23	1929	513	40	845
Marquis, Alfred, New York, and H. Hahn, Brooklyn, N. Y. Vial-holder.....	363,659	May 24	2254	584	39	923
Marquis, Alfred, and H. Hahn, New York, N. Y. Physician's medicine-case.....	372,812	Nov. 8	809	216	41	629
Marr, Joseph, and D. J. Spellman, Stockton, Cal. Cutter-head for stone-dressing machines.....	368,218	Aug. 16	1286	340 341	40	711
Marr, William C., Onawa, Iowa. Wrench.....	363,901	May 31	2598	675	39	993
Marr, William C., Onawa, Iowa. Spiral conveyer.....	371,609	Oct. 18	1234	321	41	259
Marrs, Daniel, assignor of one-half to J. Schroedar, Lincoln Precinct, Nebr. Wagon for hauling dirt.....	367,009	July 19	1710	460 461	40	340
Marsden, Samuel. (See Wright and Marsden.)						
Marsden, Samuel L., New Haven, Conn. Stone and ore breaker.....	361,173	Apr. 12	1135	287	39	215
Marsh, Andrew T. (See Sheldon, Philo B., assignor.)						
Marsh, Charles E., Lynn, Mass. Frame for holding stencils.....	375,371	Dec. 27	1725	452	41	1405
Marsh, Charles L., Solomon's Island, Md. Oyster-tongs.....	374,195	Dec. 6	42	11	41	1054
Marsh, Cyrus, Louisville, Ky. Gate.....	370,799	Oct. 4	67	17	41	15
Marsh, David S., Waltham, Mass. Steam-generating furnace.....	368,346	Aug. 16	1460	389	40	746
Marsh, Edward A., Newton, Mass. Machine for drilling and tapping watch-balances.....	357,398	Feb. 8	941	247 248 333 334 335	38	606
Marsh, Edward A., Newton, Mass. Watch-pinion-cutting machine.....	359,323	Mar. 15	1284	333 334 335	38	1154
Marsh, Edward A., Newton, Mass. Machine for turning and polishing the rims of watch- balances.....	369,866	Sept. 13	769	205 206 207 208	40	1189
Marsh, Edward A., Newton, Mass. Automatic rosette-engine.....	369,867	Sept. 13	774	207 208 309 310	40	1190
Marsh, Edward A., and D. H. Church, Newton, Mass. Automatic blank-feeding device ..	366,592	July 12	1154	309 310	40	229
Marsh, Edward A., Newton, J. Logan, Waltham, and D. H. Church, Newton, Mass. Test- ing and grading watch-balances and hair-springs.....	360,234	Mar. 29	2752	698	38	1446
Marsh, Ellerson J. (See Bell and Marsh.)						
Marsh, Ephraim H., Cedar Vale, Kans. Submarine gun and port therefor.....	367,153	July 26	1924	519	40	387
Marsh, Frank P., New York, N. Y. Bustle.....	361,432	Apr. 19	1493	385	39	294
Marsh, Frank P., New York, N. Y. Dress-supporting steel.....	364,272	June 7	96	27	39	1107
Marsh, George, Marshall, Mich. Automatic cut-off for grain-meters.....	355,774	Jan. 11	665	173	38	139
Marsh, George, Nashville, Tenn. Thong-cutter.....	375,372	Dec. 27	1725	452	41	1406
Marsh, James A., Cleveland, Ohio. Vapor-stove.....	358,284	Feb. 22	2232	588 589	38	860
Marsh, James S., Lucasville, Ohio. Clothes-rack.....	359,022	Mar. 8	890	226	38	1073
Marsh, James S., Philadelphia, Pa. Water distributing, collecting, and filtering appa- ratus.....	367,051	July 26	1770	478	40	359
Marsh, Orlo J., Titusville, Pa. Saw-filing device.....	373,148	Nov. 15	1317	349	41	731
Marsh, Parker C., Troy, assignor of one-half to G. L. Storer, Rossville, N. Y. Holdback for vehicles.....	366,852	July 19	1519	407	40	303
Marsh, Weston C. (See Hains, William H., assignor.)						
Marshall, Benjamin, San Francisco, Cal. Convertible operating-table and lounge.....	366,783	July 19	1423	381	40	285
Marshall, Benjamin C., Fort Worth, Tex. Cotton-chopper.....	374,610	Dec. 13	637	166	41	1179
Marshall, Charles. (See Schindly, John H., assignor.)						
Marshall, Charles A., Johnstown, Pa., assignor to Johnson Steel Street Rail Company, of Kentucky. Gib and key.....	362,455	May 3	544	151	39	579
Marshall, Henry, Valdosta, Ga. Fertilizer-distributing attachment for wagons.....	361,433	Apr. 19	1494	386	39	294
Marshall, Israel W., Kennett, Pa. Manufacture of water-proof building-paper.....	356,367	Jan. 18	1533		38	308

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Marshall, James F. (See Proctor, David R., assignor.)						
Marshall, John, Brooklyn, N. Y. Can-faucet	366,230	July 12	664	180	40	133
Marshall, John B., assignor of one-half to B. B. Rogers, Little Rock, Ark. Sash-fastener	356,255	Jan. 18	1367	361	38	277
Marshall, Justice W., Cazenovia, and C. S. Bates, Saratoga Springs, N. Y. Railway axle-box	357,721	Feb. 15	1430	376	38	706
Marshall, Louise F., New York, N. Y. Wig or similar article	373,297	Nov. 15	1535	406	41	771
Marshall, Moses, Chicopee Falls, Mass. Circular-knitting machine	374,196	Dec. 6	43	11	41	1055
Marshall, Robert, Hamilton, Ontario, Canada. Receptacle for ink, &c.	372,547	Nov. 1	388	105	41	544
Marshall, Sumner B. (See Jones and Marshall.)						
Marshall, Thomas S., assignor to Johnston Harvester Company, Batavia, N. Y. Rice-harvester	362,026	Apr. 26	2358	615	39	460
Marshburn, Joseph J., Boren's Mills, Tex. Bell-collar	370,271	Sept. 20	1378	370	40	1309
Marston, Albert J., Worcester, Mass. Surgical chair	363,404	May 24	1871	492	39	848
Martaresche, Louis. (See Gavillet and Martaresche.)						
Martin, Aaron J., Evansville, Ind. Whiffletree-iron	366,966	July 19	1660	446	40	331
Martin, Andrew J. (See Kirkpatrick and Martin.)						
Martin, Andrew J., Mechanicsburg, Ohio. Grain-drill	362,757	May 10	995	270	39	664
Martin, Andrew J., Macedon, N. Y. Changeable-speed gearing	364,530	June 7	471	127	39	1176
Martin, Bion E. and D. E., Sycamore, Ohio. Halter-trimming	366,416	July 12	899	242	40	178
Martin, Charles, Toronto, Ontario, Canada. Match-making machine	356,485	Jan. 25	1707	445 446	38	349
Martin, Charles L. B., Montclair, N. J. Dress-guard for vehicles	370,550	Sept. 27	1802	479	40	1395
Martin, D. Everett. (See Martin, Bion E. and D. E.)						
Martin, Edward W., et al. (See Howell and Pooler, assignors.)						
Martin, Frank F., Gloucester, Mass. Oarsman's harness	356,846	Feb. 1	146	39	38	449
Martin, Frank F., Gloucester, Mass. Means for reefing sails	373,671	Nov. 22	2110	564	41	893
Martin, Franklin U., Altoona, Wis. Commode-chair	356,654	Jan. 25	1944	509	38	393
Martin, George. (See Martin, Henry and G.)						
Martin, Henry, Cincinnati, Ohio. Cross-tie for cable railways	356,595	Jan. 25	1854	488	38	377
Martin, Henry, Lancaster, and G. Martin, Philadelphia, Pa. Brick-mold-sanding machine	359,267	Mar. 15	1208	315	38	1141
Martin, Henry, Lancaster, and G. Martin, Philadelphia, Pa. Brick-mold-sanding machine	370,635	Sept. 27	1929	511	40	1419
Martin, Homer, and F. G. McHenry, Bloomington, Kans. Device for spooling fence-wire	373,080	Nov. 15	1208	322	41	711
Martin, Irvin, Vowinkel, Pa. Weather-strip	374,262	Dec. 6	127	33	41	1071
Martin, Jakob, assignor of two-thirds to W. Ohse and M. Rosenheim, New York, N. Y. Piano-pedal stool	371,774	Oct. 18	1476	381 382	41	308
Martin, James, Brooklyn, N. Y. Swing-saw	370,962	Oct. 4	335	83	41	66
Martin, James N., and W. H. Harris, Newberry, S. C. Car-coupling	372,037	Oct. 25	1878	484	41	393
Martin, John, Jr., Allegheny City, Pa. Window-screen	361,883	Apr. 26	2151	558	39	424
Martin, John C. (See Henwood, John, assignor.)						
Martin, Joseph, Hartwick, Iowa. Draft-equalizer	375,082	Dec. 20	1330	347	41	1320
Martin, Joseph B. (See Elliott, John A., assignor.)						
Martin, Joseph C., Florence, Mass. Store-service apparatus	368,219	Aug. 16	1287	341 342	40	711
Martin, L. M. (See Dollens, Wood C., assignor.)						
Martin, Luther E., Baltimore, Md. Attaching-hook for tape-measures	370,636	Sept. 27	1930	511	40	1419
Martin, Morris, Malden, Mass., assignor to Martin-Wilson Automatic Fire Alarm Company, Portland, Me. Automatic fire-telegraph	360,968	Apr. 12	824	211	39	158
Martin, Morris, Malden, Mass., assignor to American Bell Telephone Company. Electric speaking-telephone	369,256	Aug. 30	2732	728	40	1010
Martin, Morris, Malden, Mass., assignor to Municipal Signal Company, Portsmouth, N. H. Signal-box	375,083	Dec. 20	1331	347	41	1320
Martin, Morris, Malden, Mass., assignor to Municipal Signal Company, Portsmouth, N. H. Municipal telegraph	375,299	Dec. 20	1617	424	41	1377
Martin, Mulford, New Brunswick, N. J. Ticket-holder	362,758	May 10	998	271	39	665
Martin, Nathaniel E. (See Radford, Cassius M., assignor.)						
Martin, Orin F., Somerville, assignor of one-half to W. P. Dean, Boston, Mass. Tube-cutter	360,709	Apr. 5	448	114	39	83
Martin, Robert W. (See Shee, Parke E., assignor.)						
Martin, Samuel G., New York, N. Y. Steam steering apparatus	360,603	Apr. 5	306	75	39	58
Martin, Samuel W., assignor to Mast, Foos & Company, Springfield, Ohio. Pump	365,835	July 5	105	29	40	22
Martin, Theodore, Wallaceburg, Ontario, Canada. Gate-latch	369,352	Sept. 6	66	19	40	1046
Martin, Truman J., and J. T. Budd, Buffalo, N. Y. Apparatus for detecting leakage of gas and preventing its explosion	362,523	May 10	637	180	39	601
Martin, William, Dunkirk, N. Y. Device for heating railway-cars by steam	371,959	Oct. 25	1752	453 454	41	371
Martin, William D., Warsaw, N. Y. Clothes-drier	366,013	July 5	367	99	40	69
Martin, William J., Catawissa, Pa. Dust-conveyer	369,542	Sept. 6	314	86	40	1094
Martin, William P., New York, N. Y. Stereotype-plate holder	361,306	Apr. 19	1324	340	39	263
Martin-Wilson Automatic Fire Alarm Company. (See Martin, Morris, assignor.)						
Martincourt, Charles, assignor to Milwaukee Harvester Company, Milwaukee, Wis. Pitman-connection for mowers	373,781	Nov. 22	2264	607	41	921
Martindale, Jacob Y. (See Carr, Joseph E., assignor.)						
Martine, Charles F., Boston, Mass. Boot or shoe	369,068	Aug. 30	2495	662	40	962
Martinent, Xavier H., Fish Lake Valley, Nev. Harvester	356,655	Jan. 25	1944	510	38	394
Martinez, Manuel J., Bayonne, N. J., and O. Muller, New York, N. Y. Combined drum-head and manifold for sectional steam-boilers	368,600	Aug. 23	1821	484	40	824
Martius, Charles A., Berlin, Germany. Production of mixed azo coloring-matter	358,865	Mar. 8	672	.....	38	1032
Martz, Oliver M., and J. Keener, West Salem, Ohio. Fruit-picker	368,297	Aug. 16	1401	370	40	734
Martz, Oliver M., assignor of two-thirds to W. A. Sharick and E. L. Peters, West Salem, Ohio. Roofing attachment	369,257	Aug. 30	2734	728	40	1010
Marvil, Joshua H., Laurel, Del. Fruit-basket cover	359,732	Mar. 22	1929	489	38	1289
Marvil, Joshua H., Laurel, Del. Fruit-crate	374,799	Dec. 13	900	235	41	1231
Marvil, Joshua H., Laurel, Del., and J. Robinson, Sharptown, Md. Half-barrel package	370,637	Sept. 27	1931	512	40	1419
Marvin, Charles F. (See Mix and Marvin.)						
Marvin, Harry N., Syracuse, N. Y. Electro-magnetic rock-drill	361,829	Apr. 26	2060	536 537	39	407
Marvin, Harry N., Syracuse, N. Y. Electric rock-drill	368,405	Aug. 16	1535	410	40	761
Marvin, Harry N., Syracuse, N. Y. Electric rock-drill	368,406	Aug. 16	1539	411	40	762
Marwood, Frederick T., Blackburn, county of Lancaster, England. Cork-extractor	370,638	Sept. 27	1932	512	40	1420
Marx, Albert, Baltimore, Md. Medical compound for dyspepsia, &c.	375,173	Dec. 20	1462	.....	41	1346
Marx, Andrew, assignor of one-half to B. F. Haxton, Detroit, Mich. Tobacco-dressing machine	369,991	Sept. 13	970	256	40	1225
Marx, Ernest. (See Gaillard, Ella N., assignor.)						
Marx, Ernest, Brooklyn, N. Y. Buckle	356,772	Feb. 1	41	12	38	431

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Marx, Joseph, and J. H. Mueller, Cross Plains, Wis. Wagon-box lock	355,459	Jan. 4	215	57	38	43
Marx, Joseph, and A. Virnig, Cross Plains, Wis. Sulky-plow	361,830	Apr. 26	2066	537	39	408
Marx, Marcus, New York, N. Y. Watch-protector	357,399	Feb. 8	945	248	38	606
Marx, Marcus, Brooklyn, N. Y. Composition for bricks, tiles, &c.	362,759	May 10	999	.....	39	665
Marx, William, Beaver Falls, Pa. Fruit or vegetable grater	374,611	Dec. 13	638	167	41	1179
Marz, Valentine. (See Steinkoenig, Frederick, assignor.)						
Maschmeyer, Charles, assignor to E. Miller & Co., Meriden, Conn. Lamp-standard	366,014	July 5	368	99	40	69
Masecar, Charles H. (See Kingman, Mitchael, assignor.)						
Masier, Philip C. (See Hall, Harvey B., assignor.)						
Mason, Arthur J., and G. C. Hale, Kansas City, Mo. Fender for street-cars	366,015	July 5	370	100	40	69
Mason, Buck, Trenton, Mo. Hay rake and stacker	366,016	July 5	372	100	40	70
Mason, Charles S., Orange, Cal. Music-chart	375,496	Dec. 27	1884	493	41	1437
Mason, Charles T., Jr., Sumter, S. C., assignor to Mason Cotton Harvester Company. Cot- ton-harvesting machine	371,960	Oct. 25	1753	{ 444 445 }	{ 41 41 }	371
Mason, Charles T., Jr., Sumter, S. C., assignor to Mason Cotton Harvester Company. Cot- ton-picker stem	375,084	Dec. 20	1333	347	41	1321
Mason Cotton Harvester Company. (See Mason, Charles T., Jr., assignor.)						
Mason, Edwin C., Madison, Wis. Automatic damper mechanism	357,722	Feb. 15	1432	376	38	706
Mason, Frank S., Cambridge, Mass. Sliding-door lock	356,724	Jan. 25	2030	533	38	410
Mason, George L., Brookfield, Vt. Cover-fastening	362,170	May 3	162	47	39	504
Mason, H. W. (See Watson, Elias G., assignor.)						
Mason, Henry H. (See Johnson, Charles C., assignor.)						
Mason, Henry H., Springfield, Vt. Mop	357,845	Feb. 15	1614	419	38	740
Mason, Henry H., Springfield, Vt. Mop-head	357,846	Feb. 15	1615	419	38	740
Mason, Horatio H. (See Emerson, Richard, assignor.)						
Mason, Isaac W., Burnside, Ill. Wagon or stock scale	355,942	Jan. 11	928	242	38	188
Mason, James H., Chicago, assignor of one-half to G. F. Watson, Aurora, Ill. Sheet-metal shears	371,961	Oct. 25	1760	456	41	372
Mason, James M., Savoy, Tex. Wire-stretcher	366,853	July 19	1520	407	40	303
Mason, Joshua, Paterson, N. J. Steam and hot-water boiler	355,699	Jan. 11	552	145	38	118
Mason, Lewellyn, Chicago, Ill. Seal-lock	361,434	Apr. 19	1495	386	39	294
Mason, Lovane, and C. B. Shafer, Gasport, N. Y. Crate	374,612	Dec. 13	639	167	41	1179
Mason Regulator Company. (See Mason, William B., assignor.)						
Mason, Samuel A. (See Heuchan and Mason.)						
Mason, Truman A. (See Caton, William E., assignor.)						
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. } Magazine fire-arm	373,298	Nov. 15	1536	{ 406 407 }	{ 41 41 }	771
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Fluid-pressure regulator	361,771	Apr. 26	1978	516	39	391
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Fluid-pressure regulator	367,536	Aug. 2	261	74	40	501
Mason, William R., Philadelphia, Pa. Awning	363,155	May 17	1541	407	39	776
Massa, Gustav H., assignor of one-half to J. Favreau, New York, N. Y. Combined game- counter and card-box	375,558	Dec. 27	1974	514	41	1454
Masseth, Benjamin, Karns City, Pa. Device for removing casing from oil-wells	367,822	Aug. 9	709	192	40	593
Masseth, Benjamin, Karns City, Pa. Oil-well packer	367,823	Aug. 9	711	192	40	594
Masseth, Benjamin, Karns City, Pa. Drilling-packer for oil-wells	367,824	Aug. 9	712	192	40	594
Massey, Albert P., assignor to Eames Vacuum Brake Company, Watertown, N. Y. Au- tomatic valve for regulating fluid-pressure	358,866	Mar. 8	673	167	38	1032
Massey, Albert P., assignor to Eames Vacuum Brake Company, Watertown, N. Y. Au- tomatic car-brake	358,867	Mar. 8	675	167	38	1032
Massey, Albert P., assignor to Eames Vacuum Brake Company, Watertown, N. Y. Car- brake	368,347	Aug. 16	1461	389	40	746
Massey, Anson L., Rainsville, Ind. Hame-tug loop	366,593	July 12	1157	310	40	229
Massmann, Henry, assignor to C. Passow, Chicago, Ill. Table	360,604	Apr. 5	307	75	39	59
Mast & Company, P. P. (See Mast, Phineas P., assignor.)						
Mast & Company, P. P. (See Mast and Startzman, assignors.)						
Mast, Foos & Company. (See Bean, Roscoe, assignor.)						
Mast, Foos & Company. (See Martin, Samuel W., assignor.)						
Mast, Joseph, Philadelphia, Pa. Compound for cleaning boilers	371,775	Oct. 18	1476	.....	41	308
Mast, L. Lavake, assignor of one-half to W. J. Mast, West Milton, Ohio. Lightning-rod brace	367,348	July 26	2212	594	40	441
Mast, Phineas P., assignor to P. P. Mast & Company, Springfield, Ohio. Cultivator	361,307	Apr. 19	1325	340	39	263
Mast, Phineas P., assignor to P. P. Mast & Company, Springfield, Ohio. Cultivator	369,951	Sept. 13	906	241	40	1214
Mast, Phineas P., and G. W. Startzman, Springfield, Ohio, assignors to P. P. Mast & Com- pany. Horse hay-rake	356,596	Jan. 25	1854	488	38	377
Mast, Wesley J. (See Mast, L. Lavake, assignor.)						
Masterman, William H., San Francisco, Cal. Car-wheel	362,292	May 3	309	85	39	533
Masters, George A. (See Dusenbury, Philip S., assignor.)						
Masters, John, London, county of Middlesex, England. Scratch-brush for the use of jew- elers and others	359,733	Mar. 22	1930	489	38	1289
Masters, Josiah R., Johnsonville, N. Y. Oscillating bed-spring	357,215	Feb. 8	697	180	38	559
Mater, Henry, Lagro, Ind. Fence-post	373,839	Nov. 29	2352	631	41	946
Materne, Albert, and J. Springer, assignors to Materne & Springer, New York, N. Y. Making hats	370,963	Oct. 4	336	84	41	66
Materne & Springer. (See Materne and Springer, assignors.)						
Mathai, Ingram & Co. (See Fowler, William R., assignor.)						
Matheis, John, Ottawa, Ill. Machine for cutting leather, &c.	361,707	Apr. 26	1890	489	39	376
Mather, Alonzo C., Chicago, Ill. Shoe-lacing and lace-fastening	362,760	May 10	1000	271	39	666
Mather, Edgar, Matherton, Mich. Stove-pipe collar	360,605	Apr. 5	308	76	39	59
Mather, Edmund, Harrisburg, Pa. Preventing the formation of scale in steam-boilers	372,985	Nov. 8	1055	282	41	674
Mather, G. MacDonald, et al. (See Mather, Joseph S., assignor.)						
Mather, Joseph S., assignor to himself, G. M. Mather, Wheeling, W. Va., and G. A. Laugh- lin, Cleveland, Ohio. Ruler	372,319	Nov. 1	51	15	41	481
Mather, Richard H., Windsor, Conn. Reducing-valve	355,543	Jan. 4	322	86	38	65
Mather, Thomas E., Minnewaukon, Dak. Ter. Attachment for pool and billiard tables	363,837	May 31	2516	{ 653 654 }	{ 39 39 }	978
Mathes, Zackariah C. (See Parks and Mathes.)						
Mathews, Byron C., Newark, N. J. Book-support	364,360	June 7	209	58	39	1128
Mathews, Don Castro, Wethersfield, Conn., assignor to G. H. P. Flagg, trustee, Boston, Mass. Utilizing refuse sand-paper	356,487	Jan. 25	1710	.....	38	349
Mathews, Joseph H., Berkeley, Cal. Feed-water-heating attachment for boilers	367,647	Aug. 2	428	119	40	532
Mathews, Leroy M., assignor of two-thirds to C. V. Mattram and L. Hornor, Lawrence, Kans. Suspension dental bracket	364,531	June 7	473	127	39	1176

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Mathewson, Arthur W., Fall River, Mass. Thread-guiding and tension-regulating device for spooling and winding machines	369,868	Sept. 13	778	208	40	1190
Mathey, Henry, Rondout, N. Y. Manufacture of lime or cement	369,353	Sept. 6	67	19	40	1046
Mathey, Henry, Rondout, N. Y. Manufacture of lime or cement	369,354	Sept. 6	68	19	40	1047
Mathias, David H., Albany, assignor to Reed Manufacturing Company, Canajoharie, N. Y. Wire-bale-tie	366,635	July 12	1217	324	40	241
Mathias, Lewis, and H. Mendenhall, Audubon, Iowa. Rocking cut-off valve	369,802	Sept. 13	667	181	40	1170
Mathias, Lewis, and V. A. Walkup, Audubon, Iowa; said Walkup assignor to said Mathias. Rack-and-pinion device	370,709	Sept. 27	2039	542	40	1439
Mathiason, Peter B., St. Louis, Mo. Screen	365,443	June 28	1815	472	39	1454
Mathiason, Peter B., St. Louis, Mo. Brick-machine	369,118	Aug. 30	2565	{ 681 682 }	{ 40 41 }	975
Mathiason, Peter B., St. Louis, Mo. Pulverizer	370,880	Oct. 4	191	50	41	38
Mathieson, Neil. (See Hawliczek, Josef, assignor.)						
Mathieu, Jean A., Baltimore, Md. Manufacture of dye-stuffs	356,368	Jan. 18	1534	.....	38	308
Mathieu, Jean A., Detroit, Mich. Extracting metals from ores	359,165	Mar. 8	1067	.....	38	1108
Mathieu, Jean A., Detroit, Mich. Wrapping for meats, clothes, &c	359,166	Mar. 8	1068	.....	38	1108
Mathieu, Jean A., Detroit, Mich. Apparatus for separating substances which volatilize at different temperatures	374,077	Nov. 29	2689	722	41	1012
Mathieu, Jean A., North East, Md. Apparatus for separating and purifying the products of distillation of wood	374,078	Nov. 29	2690	{ 722 723 }	{ 41 42 }	1013
Mathis, Alberade. (See Monarch, John W., assignor.)						
Mathis, Hillery P., Stockton, Ga. Stubble-cutter	366,417	July 12	900	243	40	178
Mathis, Jordan P., Bently, Miss. Grass-killer	366,854	July 19	1521	407	40	304
Mathis, Sylvain, Morlanwelz, Belgium. Regulator for electric lamps	372,986	Nov. 8	1056	283	41	674
Mathues, John C., Richmond, Ind. Ice-shoe for wagons	362,641	May 10	823	225	39	633
Matlock, Jasper N., and J. B. Fritz, Brookville, Kans. Automatic fire-extinguisher for railway-cars	373,594	Nov. 22	2003	531	41	869
Matson, A. Holton, <i>et al.</i> (See Crowell, Solomon, assignor.)						
Matson, Charles, assignor of one-half to H. M. Holcomb, Russell, Kans. Fire-escape	368,220	Aug. 16	1294	342	40	712
Matson, Fannie L., San José, Cal. Frame for reading and number cards	371,338	Oct. 11	852	218	41	174
Matt, Wilhelm, New York, N. Y. Plastic compound for use in the decorative arts, &c	366,967	July 19	1661	.....	40	331
Matteson, Charles E., assignor of one-half to W. M. Douglass, Easton, Pa. Apparatus for wiping metal-coated wire	370,710	Sept. 27	2041	543	40	1440
Matteson, Lorenzo C., Watertown, N. Y. Sash-fastener	359,086	Mar. 8	967	248	38	1088
Matteson, Lorenzo C., Watertown, N. Y. Sash-weight	369,952	Sept. 13	908	242	40	1214
Matthai, Ingram & Co. (See Detrick, Jacob S., assignor.)						
Matthai, Ingram & Co. (See Knapp, George W., assignor.)						
Matthews, Benjamin B. (See Merlette, John, Sr., assignor.)						
Matthews, Dwight L., Toledo, Ohio. Measuring-pump	359,023	Mar. 8	891	227	38	1073
Matthews, Hezekiah. (See Lawrence and Batchelder, assignors.)						
Matthews, John. (See Conner, Joseph, assignor.)						
Matthews, Oscar S., Dallas, Tex. Band for paper, currency, &c	369,543	Sept. 6	315	87	40	1094
Matthews, Peter, Escanaba, Mich. Car-frame	372,548	Nov. 1	389	105	41	544
Matthews, Theodore P. (See Wendell, Isaac P., assignor.)						
Matthews, Thomas F., New York, N. Y. Syringe	367,648	Aug. 2	428	119	40	533
Matthews, Thomas F., New York, N. Y. Syringe	367,649	Aug. 2	430	120	40	533
Matthews, Thomas P., <i>et al.</i> (See Place, John H., assignor.)						
Matthiessen & Wiechers Sugar Refining Company, F. O. (See Krause, Otto H., assignor.)						
Mattig, Paul W. M. (See Netter, Lehmann, and Mattig.)						
Mattram, Charles V., <i>et al.</i> (See Mathews, Leroy M., assignor.)						
Mattson, Andrew, Minneapolis, Minn. Staple-driving tool	367,537	Aug. 2	264	75	40	502
Mattson, Andrew, Minneapolis, Minn. Wire-screen stretcher and clamp	367,538	Aug. 2	265	75	40	502
Maughmer, George C. (See Miller and Maughmer.)						
Mauk, William G., Basil, Ohio. Hitching device for harness	355,544	Jan. 4	323	86	38	66
Mauk, William G., Basil, assignor of one-third to R. H. Griffith, Jacksonstown, Ohio. Stove-pipe damper	371,776	Oct. 18	1477	382	41	309
Maul & Co., Hugo. (See Landenberger, Frederick, assignor.)						
Maultby, William E., Forsyth, Mich. Railway-car brake	358,868	Mar. 8	676	168	38	1032
Maurino, Henry Q., Albuquerque, New Mex. Terr. Wheel and axle	364,426	June 7	306	84	39	1146
Maus, Wendel, Cincinnati, Ohio. Operating elevator-gates	362,761	May 10	1001	271	39	666
Mausser, Paul, assignor to Waffenfabrik Mauser, Oberndorf-on-the-Neckar, Würtemberg, Germany. Repeating fire-arm	370,964	Oct. 4	337	84, 85	41	67
Maussner, Friedrich, Nuremberg, Bavaria, Germany. Machine for producing textile fabrics from horse-hair	371,610	Oct. 18	1235	322	41	259
Maver, William, Jr. (See Larish and Maver.)						
Mavis, George R., Wymore, Nebr. Car-coupling	359,024	Mar. 8	892	227	38	1073
Mavis, Harriet B., Burlingame, Kans. Ironing-board	363,527	May 24	2065	536	39	887
Maw, John. (See King and Maw.)						
Mawhinney, Samuel, assignor of one-half to R. L. Golbert, Worcester, Mass. Boot or shoe tree	374,311	Dec. 6	203	54	41	1084
Mawhood, Jonathan D., assignor to Richmond City Mill Works, Richmond, Ind. Feeding device for roller-mills	362,027	Apr. 26	2361	615	39	460
Mawhood, Jonathan D., assignor to Richmond City Mill Works, Richmond, Ind. Roller-mill	373,241	Nov. 15	1461	385	41	757
Mawhood, Jonathan D., assignor to Richmond City Mill Works, Richmond, Ind. Roller-mill	373,408	Nov. 15	1711	453	41	803
Maxey, Thomas W., Nevada, Mo. Float for water-gages	358,285	Feb. 22	2233	589	38	860
Maxim, Hiram S., London, county of Middlesex, England. Machine-gun	367,825	Aug. 9	715	192	40	594
Maxim, Hiram S., London, England. Manufacture of guns	373,466	Nov. 22	1797	478	41	833
Maxim, Samuel, Wayne, Me. Brush-extractor	355,460	Jan. 4	215	57	38	43
Maxon, Thomas, assignor of one-half to J. W. Carpenter, Dayton, Ohio. Lifting-jack	362,456	May 3	545	151	39	579
Maxson, Cassius M., assignor of one-half to O. B. Langworthy, Portville, N. Y. Combined hay rake and tedder	364,123	May 31	2921	758	39	1055
Maxwell, A. L., <i>et al.</i> (See Pierce, George R., assignor.)						
Maxwell, Catharine, Philadelphia, Pa. Ice-sandal	371,270	Oct. 11	761	195	41	157
Maxwell, David, Paris, Ontario, Canada. Harvester-binder	364,837	June 14	913	{ 242 243 }	{ 39 40 }	1266
Maxwell, Henry C., Rome, N. Y. Breeching-ring for harness	366,495	July 12	1001	272	40	199
Maxwell, Isaac P., Baltimore, Md. Slate-pencil sharpener	370,272	Sept. 20	1379	370	40	1309
Maxwell, John, Oneida, N. Y. Coffin	357,490	Feb. 8	1071	282	38	630
Maxwell, John, Oneida, N. Y. Coffin-lid fastener	369,197	Aug. 30	2658	707	40	995
Maxwell, John, Oneida, N. Y. Coffin-fastener	369,198	Aug. 30	2660	707	40	995

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Maxwell, John L., Bentonville, Ark. Churn-dasher	358,684	Mar. 1	394	94, 95	38	977
Maxwell, John M., Chicago, Ill. Skiagraph	356,144	Jan. 18	1223	324	38	250
Maxwell, Joseph W., Louisville, Ky. Saw-guide	357,678	Feb. 15	1368	360	38	693
Maxwell, Joseph W., Louisville, Ky. Band-saw mill	357,679	Feb. 15	1370	361	38	694
Maxwell, Joseph W., Louisville, Ky. Scroll-sawing machine	357,680	Feb. 15	1372	361	38	694
Maxwell, Joseph W., Louisville, Ky. Band-saw mill	357,681	Feb. 15	1374	{ 361 362 }	{ 38 38 }	695
Maxwell, Mary A., Boston, Mass. Easel	368,677	Aug. 23	1929	513	40	845
Maxwell, Walter H., Cincinnati, assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator. (Reissue)	10,885	Nov. 29	2810	754	41	1035
Maxwell, William, Claybrook Road, Fulham, county of Middlesex, England. Carbonizing incandescents	364,031	May 31	2797	724	39	1031
Maxwell, William, Fulham, county of Middlesex, England. Rotary exhaust-pump	364,532	June 7	474	128	39	1176
Maxwell, William, Fulham, county of Middlesex, England. Rotary exhaust-pump	364,533	June 7	475	128	39	1177
Maxwell, William, Fulham, and T. V. Hughes, West Kensington, county of Middlesex, England. Mercurial-pump exhausting apparatus	361,174	Apr. 12	1136	287	39	216
Maxwell, William H., Pittsburg, Pa. Forming letters on glass	359,682	Mar. 22	1853	471	38	1276
May, Charles W., assignor of one-half to J. H. White, Omaha, Nebr. Automatic station-indicator	374,484	Dec. 6	448	{ 116 117 }	{ 41 41 }	1131
May, E. Hinsdell, Cincinnati, Ohio, assignor of one-half to J. E. May, Syracuse, N. Y. Button	375,373	Dec. 27	1726	452	41	1406
May, Horatio N. (See Le Vin, George W., assignor.)						
May, Isaac, Brooklyn, N. Y. Switch and signal lock	374,312	Dec. 6	206	54	41	1084
May, Isaac, Brooklyn, C. and T. Spikins, New York, N. Y. Lock and switch for railways	355,545	Jan. 4	325	87	38	66
May, John E. (See May, E. Hinsdell, assignor.)						
Mayall, John C., Melrose, Mass. Carpet-lining	362,293	May 3	310	85	39	534
Mayer, John B. (See Regar and Moock, assignors.)						
Mayer, Joseph S. (See Ivens, William H., assignor.)						
Mayer, Joseph S., Trenton, N. J. Potter's mold	356,773	Feb. 1	41	12	38	431
Mayer, Joseph S., Trenton, N. J. Potter's mold	356,774	Feb. 1	42	12	38	431
Mayer, Joseph S., Trenton, N. J. Pottery-kiln	356,775	Feb. 1	43	12	38	431
Mayer, Strouse & Co. (See Adler, Max, assignor.)						
Mayer, Strouse & Co. (See Gilbert, Thomas S., assignor.)						
Mayfield, I. T., et al. (See Mayfield, William D., assignor.)						
Mayfield, W. F., et al. (See Mayfield, William D., assignor.)						
Mayfield, William D., Fort Worth, assignor to W. F. and I. T. Mayfield, Tarrant County, Tex. Water-elevator chain	367,349	July 26	2213	594	40	441
Mayher, John, East Hampton, Mass. Mechanism for actuating valves for steam-pumps	358,286	Feb. 22	2234	589	38	861
Mayher, John, East Hampton, Mass. Steam-pump	362,762	May 10	1002	272	39	666
Mayhew, Alfred, London, county of Middlesex, England. Automatic boiler-feeder	364,534	June 7	475	128	39	1177
Mayhew, Reuben W., assignor to Hitchcock Manufacturing Company, Cortland, N. Y. Two-wheeled vehicle	362,642	May 10	824	225	39	633
Maynard, Charles A., Northampton, Mass. Shovel-handle	375,454	Dec. 27	1831	479	41	1427
Maynard, Charles A., assignor to H. G. Maynard, Northampton, Mass. Manufacture of shovels	373,530	Nov. 22	1915	{ 507 508 }	{ 41 41 }	854
Maynard, Henry G. (See Maynard, Charles A., assignor.)						
Maynard, William C., Aurora, Ill. Toy rifle	371,850	Oct. 18	1593	412	41	332
Maynz, Theodor. (See Teller, Carl F., assignor.)						
Mayo, George D., et al. (See Mayo, William H., assignor.)						
Mayo, Nathaniel F., et al. (See Mayo, William H., assignor.)						
Mayo, William H., assignor of one-half to G. D. Mayo, Lynn, and N. F. Mayo, Revere, Mass. Circular-knitting machine	363,528	May 24	2066	{ 536 537 }	{ 39 39 }	887
Mayor, Lane & Co., Brass Works. (See Collett, Joseph, assignor.)						
Mayrhofer, Carl A., assignor to C. Diener, Vienna, Austria-Hungary. Hydropneumatic clock system	359,799	Mar. 22	2037	{ 516 517 }	{ 38 38 }	1308
Mays, Francis A., Anthon, Tex. Ant-trap	356,256	Jan. 18	1368	361	38	277
Maysent, William W., and F. Jones, Earling, Iowa. Railway-tank	371,467	Oct. 11	1032	269	41	210
Mazatis, Edward, New York, N. Y. Scarf-fastener	375,174	Dec. 20	1462	382	41	1346
McAdam, James, Postville, Iowa. Butter-tub	357,935	Feb. 15	1732	452	38	761
McAdam, James, Postville, Iowa. Butter-tub	357,936	Feb. 15	1733	452	38	762
McAlister, Jordan W., Woodson, Ill. Harvesting-machine	356,656	Jan. 25	1946	510	38	394
McAlister, Jordan W., Woodson, Ill. Gate	369,953	Sept. 13	909	242	40	1214
McAllister, Cyrus A. (See Ross and McAllister.)						
McAllister, Samuel, Noblestown, assignor of one-half to O. D. Levis, Pittsburg, Pa. Coal-mining machine	373,081	Nov. 15	1209	322	41	712
McAllister, Thomas H. (See Ridding, William H., assignor.)						
McArthur, Alexander, Aledo, Ill. Ventilating-heater	366,855	July 19	1522	407	40	304
McArthur, James. (See McCoy and McArthur.)						
McArthur, John H. (See Smith and McArthur.)						
McArthur, Robert X., assignor of one-half to H. M. Ball, Tacoma, Wash. Ter. Combination of an adjustable pillow-sham holder	366,641	July 12	1224	326	40	241
McAvity & Sons, T. (See McShane, William, assignor.)						
McBeth, Charles E., Hamilton, Ohio. Cultivator	365,398	June 28	1749	454	39	1443
McBride, William C., Brooklyn, N. Y. Cotton-seed press	370,203	Sept. 20	1290	{ 343 344 }	{ 40 40 }	1292
McCabe, Bartholomew, Buffalo, N. Y. Motor	356,542	Jan. 25	1780	464	38	362
McCabe, Charles, Cumberland, Md. Automatic fishing device	371,777	Oct. 18	1478	{ 382 383 }	{ 41 41 }	309
McCabe, James R. (See Brownson, George B., assignor.)						
McCabe, William, assignor to St. Louis Corset Company, St. Louis, Mo. Corset	372,162	Oct. 25	2063	528	41	426
McCague, John L. (See Watson, Charles H., assignor.)						
McCahan, Davis L., Baltimore, Md. Gas bath-heater	375,424	Dec. 27	1789	468	41	1418
McCall, Alexander D., et al. (See Skinner, John, assignor.)						
McCall, James R., Kalamazoo, Mich., assignor to himself, W. M. Patterson, and L. M. Benham, Chicago, Ill. Sewing-machine treadle	361,708	Apr. 26	1891	489	39	377
McCall, Joseph W., Huntingdon, Tenn. Speculum	357,216	Feb. 8	698	180	38	559
McCall, Wilson C. (See Badger, George M., assignor.)						
McCallip, William W., Columbus, Ohio. Base for fence-posts	357,217	Feb. 8	699	180	38	560
McCallip, William W., Columbus, Ohio. Fence-post	364,427	June 7	307	84	39	1146
McCallman, James C., and W. A. Hutchinson, Dovesville, S. C. Hame attachment	374,983	Dec. 20	1195	310	41	1295
McCallum, Donald. (See Wright, Thomas, assignor.)						
McCallum & Sloan. (See Heald, Alfred, assignor.)						
McCallum, Walter R., Waelder, Tex. Ant-trap	358,212	Feb. 22	2135	563	38	842

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McCandless, James C., Barnard, Mo. Washing-machine.....	356,257	Jan. 18	1368	362	38	278
McCanless, Samuel T., Cartersville, Ga. Baling-press.....	357,400	Feb. 8	945	249	38	606
McCann, Thomas E., Philadelphia, Pa. Covering for traction-cables.....	358,160	Feb. 22	2061	542	38	827
McCanna, Andrew B. (See Brady and McCanna.)						
McCarn, George, Goodland, Ind. Power mechanism for reciprocating plungers.....	367,539	Aug. 2	266	75	40	502
McCarron, Michael A., assignor of two-thirds to T. P. Byram, Detroit, Mich. Car-brake.....	366,418	July 12	900	243	40	178
McCart, John, New York, N. Y. Piston-head for steam-engines.....	357,777	Feb. 15	1529	398	38	723
McCarter, Joseph M., et al. (See Drodzewski, Julius R., assignor.)						
McCarter, Samuel, assignor to J. D. Newbold, Norristown, Pa. Device for clamping plates or sheets of metal.....	373,672	Nov. 22	2111	564	41	893
McCarthy, Eugene, Sacramento, Cal. Cleaning the surfaces of stone.....	370,551	Sept. 27	1803	.....	40	1395
McCarthy, John. (See Nowotny, John S., assignor.)						
McCarthy, William F., Holyoke, Mass. Calender-protector.....	362,294	May 3	311	86	39	534
McCartney, James S., Sibley, Iowa. Cattle-stanchion.....	363,902	May 31	2600	676	39	993
McCarty, Charles, Fall River, Mass. Slasher.....	372,692	Nov. 8	606	165	41	594
McCarty, David H., St. Louis, Mo. Compression grease-cup.....	363,156	May 17	1542	407	39	776
McCarty, David H., St. Louis, Mo. Steam-generator.....	366,496	July 12	1001	272	40	199
McCarty, Robert A., and H. Yoe, assignors to Rapid Service Store Railway Company, Detroit, Mich. Store-service apparatus.....	371,962	Oct. 25	1761	456	41	373
McCarty, William F. M., Philadelphia, Pa., assignor to J. Logan, Hagerstown, Md., A. Ohl, and B. C. Lauth, Philadelphia, Pa. Apparatus for the manufacture of gas.....	355,331	Jan. 4	54	15	38	12
McCastline, Minnie B., Geddes, N. Y. Carpet-fastener.....	358,049	Feb. 22	1896	501	38	798
McCastline, Minnie B., Syracuse, N. Y. Carpet-fastener.....	362,171	May 3	162	47	39	504
McCauley, Reuben A., Baltimore, Md. Odorless excavating apparatus.....	373,938	Nov. 29	2486	667	41	972
McCay, George A., New York, N. Y. Watch-case spring.....	368,100	Aug. 9	1105	293	40	669
McClain, John M., Catlin, Colo. Carpet-sweeper.....	365,192	June 21	1435	378	39	1371
McClary, Nelson A., South Evanston, assignor to Chicago Gas Stove Company, Chicago, Ill. Gas or oil heating-stove.....	364,124	May 31	2923	758	39	1055
McClave, James M., East Springfield, Ohio. Bread raising and baking apparatus.....	366,968	July 19	1662	446	40	331
McClellan, Robert L. (See Wilson, David Y., assignor.)						
McClelland, John A., Louisville, Ky., assignor of one-third to E. W. Johnson, Washington, D. C. Treating and ornamenting pyroxyline compounds.....	360,811	Apr. 5	583	.....	39	110
McClelland, John A., Louisville, Ky., assignor to E. Kipper, Adams, Mass. Plastic composition.....	366,231	July 12	665	.....	40	133
McClelland, Robert W., Clinton, Ill. Running-gear for vehicles.....	366,969	July 19	1663	{ 446 447 }	{ 40 40 }	{ 331 331 }
McClintock, Emory. (See Proeschel and McClintock.)						
McClintock, Jay, Williamsport, Pa. Home trainer for bicyclists.....	359,800	Mar. 22	2042	517	38	1309
McClintock, Robert, Kansas City, Mo. Racing-harness.....	368,727	Aug. 23	2012	533	40	859
McCloud, Charles M. (See Landenberger, George W., assignor.)						
McCloskey, Edward, assignor of part to J. W. Harris, Columbus, Ohio, W. McCloskey, Pittsburg, Pa., and J. B. Foley, Steubenville, Ohio. Car-coupling.....	356,204	Jan. 18	1299	343	38	263
McCloskey, John, New York, N. Y., assignor to J. C. Appleby, Jersey City, N. J. Apparatus for making plumbers' traps.....	356,258	Jan. 18	1369	362	38	278
McCloskey, William, et al. (See McCloskey, Edward, assignor.)						
McClung, Lois W., Pueblo, Colo. Hand-operating attachment for sewing-machines.....	362,296	May 3	313	86	39	534
McClung, Lois W., Pueblo, Colo. Connection for operating sewing-machines.....	365,529	June 28	1947	507	39	1482
McClurg, James, and S. C. McMaster, Allegheny, Pa.; said McMaster assignor to said McClurg. Machine for arranging crackers.....	371,611	Oct. 18	1236	322	41	259
McCollum, Henry, and J. Parr, New York, and A. Crumbie, Brooklyn, N. Y. Baking furnace and oven.....	365,929	July 5	247	65	40	48
McCollum, Matthew C., W. B. Milnes, and A. Hartman, assignors to Susquehanna Manufacturing Company, Esby, Pa. Step-ladder.....	372,424	Nov. 1	208	58, 59	41	509
McCollum, William M., Cincinnati, Ohio. Automatic brake.....	362,101	May 3	67	20	39	486
McComber, Joel, New York, N. Y. Spinal-distortion apparatus.....	369,803	Sept. 13	668	181	40	1170
McComber, Joel, New York, N. Y. Boot or shoe.....	371,339	Oct. 11	854	219	41	175
McConnell, Burritt E. (See McConnell, Virgil H., assignor.)						
McConnell, James F., Chico, Cal. Felly-coupling.....	370,076	Sept. 20	1104	293	40	1257
McConnell, Joseph, Pittsburg, and R. W. Miller, Allegheny City, Pa. Oil-well casing.....	367,052	July 26	1771	478	40	359
McConnell, Virgil H., assignor of one-third to B. E. McConnell, Buffalo, N. Y. Feed-water purifier.....	360,455	Apr. 5	85	22	39	17
McConnoughay, Thomas J., Harrisonville, Mo. Hat and coat rack.....	371,205	Oct. 11	669	171	41	140
McCool, William A., Perrysville, Ohio. Die for forming grooved metal bars.....	364,125	May 31	2925	759	39	1056
McCool, William A., Perrysville, Ohio. Machine for drawing metals.....	364,126	May 31	2925	759	39	1056
McCool, William A., Perrysville, Ohio. Bicycle-tire machine.....	367,721	Aug. 2	562	154	40	557
McCord, Alice O., Colfax, Wash. Ter. Automatic stem-pessary.....	372,922	Nov. 8	965	262	41	657
McCormack, Isidore B., Chicago, Ill. Feed-water-purifying apparatus.....	357,328	Feb. 8	844	{ 220 221 }	{ 38 38 }	{ 587 587 }
McCormick, Alexander, Chicago, Ill. Guard-finger and finger-bar.....	358,050	Feb. 22	1897	{ 501 502 }	{ 38 38 }	{ 798 798 }
McCormick, George T., New York, N. Y. Storing ice.....	356,949	Feb. 1	282	78	38	473
McCormick Harvesting Machine Company. (See Baker, William R., assignor.)						
McCormick Harvesting Machine Company. (See Baker and Pridmore, assignors.)						
McCormick Harvesting Machine Company. (See Jenkins, Edward W., assignor.)						
McCormick Harvesting Machine Company. (See Pridmore, Henry E., assignor.)						
McCormick Harvesting Machine Company. (See Waldorf, J. Morris, assignor.)						
McCormick, Henry J., Santa Ana, Tex. Bedstead attachment.....	375,645	Dec. 27	2100	547	41	1477
McCormick, Isaac R., assignor of one-half to C. E. Hale, Logansport, Ind. Barn-truss.....	368,844	Aug. 23	2171	{ 575 576 }	{ 40 40 }	{ 890 890 }
McCormick, James, Potsdam, N. Y. Vehicle-spring.....	360,710	Apr. 5	450	114	39	83
McCormick, James F., Indianapolis, Ind. Game.....	371,340	Oct. 11	856	219	41	175
McCormick, James M. (See Loughridge, Jacob E., assignor.)						
McCormick, John, assignor of one-fourth to C. F. Montgomery, Washington, D. C. Cane-umbrella.....	368,407	Aug. 16	1543	412	40	762
McCormick, Junius A., et al. (See Lloyd, Evan, assignor.)						
McCormick, Robert E., New London, Ohio. Ironing-board.....	366,856	July 19	1523	408	40	304
McCornack, Robert C. (See Arnold, Alonzo B., assignor.)						
McCoy, Ben H. (See Carter and McCoy.)						
McCoy, Dennis D. (See Jones, David, assignor.)						
McCoy, Elijah, Detroit, Mich. Lubricator.....	357,491	Feb. 8	1072	283	38	630
McCoy, Elijah, Detroit, Mich. Lubricator attachment.....	361,435	Apr. 19	1497	386	39	294
McCoy, Elijah, Detroit, Mich. Lubricator for slide-valves.....	363,529	May 24	2071	537	39	887
McCoy, John A., Medford, Mass. System of telephonic intercommunication.....	367,219	July 26	2009	543	40	404
McCoy, John W., San Angelo, Tex. Clutch-clamp.....	368,408	Aug. 16	1545	412	40	763

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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McCoy, Walter, and J. McArthur, Miltonvale, Kans. Fender.....	373,673	Nov. 22	2112	565	41	893
McCracken, Edwin D., Alpine, assignor to M. V. Hansen, Bloomfield, N. J. Ring for attachment to curtains, skirts, &c.....	361,175	Apr. 12	1138	287	39	216
McCracken, William D. (See Hart, Isaac C., assignor.)						
McCracken, William R., Brady, Ohio. Animal-trap guard.....	360,235	Mar. 29	2755	699	38	1446
McCray, Lorin S., South Hadley Falls, Mass. Runner attachment for wheeled vehicles.....	369,728	Sept. 13	572	156	40	1152
McCray, William J., <i>et al.</i> (See Jenkins, Marion R., assignor.)						
McCreary, Austin, Mason, Ohio. Monument.....	362,643	May 10	825	225	39	633
McCreary, Edward and J., Cohoes, N. Y.; said Edward McCreary assignor to said J. McCreary. Machine for brushing fabrics.....	370,399	Sept. 27	1568	420	40	1353
McCreary, James F., New Brighton, Pa. Animal power.....	373,467	Nov. 22	1699	{ 478 479 }	{ 41 }	833
McCreary, John. (See McCreary, Edward and J.)						
McCreary, John, Webberville, Mich. Projectile.....	369,459	Sept. 6	205	58	40	1071
McCrillis, J. Wilson. (See Finch, Thomas F. N., assignor.)						
McCrory, William. (See McGlauffin, Eugene O., assignor.)						
McCrosson, John T., and W. Hendry, San Francisco, Cal. Lathe attachment.....	363,475	May 24	1985	518	39	870
McCrudden, James, Ovid, Mich. Carriage-pole.....	365,444	June 28	1816	473	39	1455
McCubbin, William, Cheatham, Ontario, Canada. Car-coupling.....	372,163	Oct. 25	2063	528	41	427
McCulley, Elmer E., Belleville, Ill. Machine for making wire-and-picket fences.....	374,079	Nov. 29	2694	723	41	1013
McCulloch, Prudence, Pomeroy, Iowa. Washing-machine.....	374,128	Nov. 29	2760	742	41	1025
McCullough, Alexander. (See Morton, Edwin W., assignor.)						
McCullough, Belle G. (See Lindley, Thomas H., assignor.)						
McCullough, David W., assignor of three-fourths to J. W. Sullinger, J. E. Kessler & Brother, and E. H. Helms, King City, Mo. Flour-chest.....	375,680	Dec. 27	2156	561	41	1486
McCullough, James, Molino, Fla. Toboggan-slide.....	366,232	July 12	666	180	40	133
McCully, John H., Rumney, N. H. Machine for dressing and forming ladder-rails.....	361,436	Apr. 19	1499	{ 386 387 }	{ 39 }	295
McCulpha, Patrick, New York, N. Y. Hot-air furnace.....	359,734	Mar. 22	1930	490	38	1290
McCune, Joseph B. (See Yost and McCune.)						
McCune, Joseph B., Worcester, assignor to Springfield Bicycle Manufacturing Company, Boston, Mass. Handle-bar fastening for bicycles.....	362,763	May 10	1003	272	39	666
McCurdy, Dennis J. (See Montross, Levi H., assignor.)						
McCurdy, Stewart L., Dennison, Ohio. Combined lounge and operating-table.....	367,053	July 26	1773	478	40	360
McCurdy, Thomas B., Lancaster, Tex. Vehicle-top.....	367,540	Aug. 2	267	76	40	502
McCutcheon, John H., Cameron, Mo., assignor of one-half to W. S. Kirk, Philadelphia, Pa. Grain-binder.....	371,341	Oct. 11	858	{ 219 220 221 }	{ 41 }	175
McDade, John, Bristol, Pa., assignor to M. C. Crompton, administratrix of G. Crompton, deceased, Worcester, Mass. Weft stop mechanism for looms.....	365,012	June 14	1164	{ 305 306 }	{ 39 }	1311
McDaniel, Charles W., Kansas City, Mo. Circuit-changer.....	368,221	Aug. 16	1295	343	40	712
McDaniel, Hampton C., San Saba, Tex. Table.....	362,223	May 3	230	67	39	517
McDaniel & Harvey Company. (See Spear, Wickham B., assignor.)						
McDaniel, Oscar D., Ridgway, Ill. Combined grain measure and tally.....	374,613	Dec. 13	640	168	41	1179
McDermott, James, Middletown, N. Y. Tanner's tool.....	361,176	Apr. 12	1139	288	39	216
McDermott, James, Middletown, Conn. Tanner's tool.....	373,748	Nov. 22	2215	593	41	913
McDermott, James C., Chicago, Ill. Pipe-molding apparatus.....	357,492	Feb. 8	1074	{ 283 284 }	{ 38 }	631
McDermott, John, assignor of one-half to G. E. Benninghoff, Kendall Creek, Pa. Gas-alarm burner.....	374,614	Dec. 13	642	168	41	1180
McDermott, Michael. (See Kock, Macklin, McDermott, and O'Brien.)						
McDermott, Michael. (See Pynchon, Macklin, Mulloy, McDermott, and O'Brien.)						
McDermott, Peter, New York, assignor of one-half to P. Reilly, Brooklyn, N. Y. Nail-cutting machine.....	370,965	Oct. 4	343	85	41	68
McDermott, Walter, Morristown, N. J. Attachment for type-writers, &c.....	363,903	May 31	2601	676	39	993
McDill, Henry C., and J. E. Gaston, assignors of three-fifths to J. H. Brown, W. G. Newby, and W. H. McDill, Fort Worth, Tex. Electric-arc lamp.....	359,221	Mar. 8	1147	298	38	1122
McDill, William H., <i>et al.</i> (See McDill and Gaston, assignors.)						
McDonald, Arthur, Holyoke, Mass. Tension-regulating device for spindle-driving bands.....	363,405	May 24	1873	492	39	849
McDonald, Curran E., New York, N. Y. Clothes-line stay.....	359,025	Mar. 8	893	227	38	1074
McDonald, David F., Lake Butler, Fla. Vegetable-slicer.....	375,646	Dec. 27	2101	547	41	1477
McDonald, Donald, Louisville, Ky. Temperature-alarm.....	365,399	June 28	1751	454	39	1443
McDonald, Donald, Louisville, Ky. Anti-freezing device for water-pipes.....	369,199	Aug. 30	2660	707	40	995
McDonald, Donald, Louisville, Ky. Jail-window.....	374,800	Dec. 13	902	236	41	1231
McDonald, Edward S. (See Boyle, Daniel T., assignor.)						
McDonald, Harry P., Louisville, Ky. Warehouse.....	372,549	Nov. 1	390	{ 105 106 }	{ 41 }	545
McDonald, James R., Des Moines, Iowa. Stop-cylinder printing-machine.....	358,051	Feb. 22	1899	502	38	798
McDonald, John S., New Orleans, La. Hydraulic elevator.....	374,901	Dec. 13	1050	275	41	1261
McDonald, Joseph H., New York, N. Y. Grain-drier.....	368,298	Aug. 16	1402	370	40	734
McDonald, Joseph H., Brooklyn, N. Y. Grain-drier.....	369,607	Sept. 6	406	{ 113 114 }	{ 40 }	1112
McDonald, Peter E., Detroit, Mich. Child's cradle.....	362,644	May 10	826	226	39	634
McDonald, Robert. (See Turner, James, assignor.)						
McDonald, Roy, <i>et al.</i> (See Harding, Daniel J., assignor.)						
McDonald, William. (See Simpson, Abijah, assignor.)						
McDonald, William S. (See Wilkinson and McDonald.)						
McDonnell, Henry, and J. J. Mallen, assignors of one-third to G. W. Clark, Jacksonville, Ill. Decorating walls.....	356,230	Jan. 18	1340	.....	38	271
McDonough, James W., and H. H. Eldred, New York, N. Y. Telephone-switch.....	357,682	Feb. 15	1377	362	38	696
McDougall, James D., Columbus, Ohio. Dust-pan.....	371,612	Oct. 18	1238	322	41	260
McDougall, Henry. (See Potter and McDougall.)						
McDougall, Hugh, Brooklyn, N. Y. Button.....	366,419	July 12	901	243	40	178
McDougall, Isaac S., Irk Vale, Chadderton, and T. Sugden, Oldham, county of Lancaster, assignors of one-third to J. T. McDougall, London, England. Steam-trap.....	368,101	Aug. 9	1106	293	40	669
McDougall, James T. (See McDougall and Sugden, assignors.)						
McDougall, Samuel T., Brooklyn, N. Y. Means for propelling vessels.....	368,678	Aug. 23	1930	513	40	845
McDougall, Samuel T., assignor of one-half to J. H. Jordan, Brooklyn, N. Y. Vapor and steam burner.....	370,486	Sept. 27	1702	452	40	1377
McDougall, William M., Grovestend, N. J. Manufacturing double-cut files.....	371,778	Oct. 18	1481	383	41	310
McDowell, Abner H., Progress, Va. Fish-trap.....	375,175	Dec. 20	1463	382	41	1346
McDowell, James E., and T. Medford, Huntington, W. Va. Trunk attachment.....	360,606	Apr. 5	309	76	39	59
McDowell, John A. (See Keffer and McDowell.)						
McDowell, William L. (See Kohler, John C., assignor.)						
McDowell, William L., Lower Merion, Pa. Hot-air furnace.....	362,297	May 3	314	87	39	534

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McElroy, James F., assignor of one-half to L. C. Butler, Lansing, Mich. System of electric distribution	366,124	July 5	515	139	40	97
McElroy, Samuel B., <i>et al.</i> (See Ryan, Luke, assignor.)						
McElroy, William, and H. Connett, Brooklyn, N. Y. Injector	362,298	May 3	315	87	39	534
McElroy, William J., Pittsburg, and J. D. Nicholson, Allegheny City, Pa. System of electrical distribution for railways	363,250	May 17	1666	437	39	801
McElvain, G. H., <i>et al.</i> (See Rawles, John, assignor.)						
McElvain, James W. (See Garber and McElvain.)						
McEnaney, John T., Atlanta, Ga. Paint-mixer	366,784	July 19	1425	381	40	285
McEntee, Arthur E., Brooklyn, N. Y. Tricycle	375,176	Dec. 20	1465	382	41	1346
McEvers, Edward, Susanville, Cal. Bridle	368,601	Aug. 23	1822	484	40	824
McEvoy, Edward, New York, N. Y. Cut-out block	364,721	June 14	723	193	39	1233
McEwen, George W., Milton, Pa. Fence-post	368,222	Aug. 16	1299	343	40	713
McEwen, George W., and W. H. Lawrence, Milton, Pa. Fence-post	359,167	Mar. 8	1068	278	38	1108
McFadden, James F., Evansville, Wis. Adjustable chair	364,273	June 7	97	28	39	1108
McFalls, David H., and E. W. Baxter, Philadelphia, N. Y. Car-coupling	370,800	Oct. 4	68	18	41	16
McFarland, Albert C., Upper Lisle, N. Y. Lock for fire-arms	370,966	Oct. 4	344	85	41	68
McFarland, Andrew, Thomaston, Me. Carpet-stretcher	373,595	Nov. 22	2005	531	41	870
McFarland, Samuel G., New York, N. Y. Water-closet	355,831	Jan. 11	748	196	38	153
McFaul, Thomas B., Phillips, Wis. Lumber-cart	365,530	June 28	1949	507	39	1483
McGahan, Fred L., Indianapolis, Ind. Boiler-flue cleaner	365,836	July 5	107	29, 30	40	22
McGahan, Fred L., Indianapolis, Ind. Boiler-flue cleaner	367,826	Aug. 9	717	193	40	595
McGann, Owen J., Pittsburg, Pa. Flushing apparatus for water-closets and other sanitary appliances	357,218	Feb. 8	701	181	38	560
McGann, Owen J., Pittsburg, Pa. Pressure-regulator and cut-off	360,607	Apr. 5	310	76	39	59
McGann, Owen J., Pittsburg, Pa. Gas pressure-regulator and cut-off	374,485	Dec. 6	450	117	41	1132
McGarry, Daniel, <i>et al.</i> (See Ewing, William H., assignor.)						
McGary, Marcellus, Crawford Station, Mo. Automatic backwater-valve for drains	371,085	Oct. 4	501	126	41	99
McGary, Marcellus, Crawford Station, Mo. Animal-trap	371,086	Oct. 4	502	126	41	99
McGaugh, William M., Converse, Mo. Cultivator-shield	359,801	Mar. 22	2043	517	38	1309
McGavock, William J. (See Bishop, Goodwin O., assignor.)						
McGee, Hugh P. (See McKee, David E., assignor.)						
McGee, James, Scott County, Iowa. Wheel-cultivator. (Reissue)	10,828	Apr. 19	1828	473	39	358
McGee, Joseph H., Manchester, Iowa. Bow-facing oar	355,879	Jan. 11	829	216	38	168
McGee, Walter P. (See Omwake and McGee.)						
McGehee, Albert G., Montgomery, Ala. Cotton-condenser	360,236	Mar. 29	2756	699	38	1446
McGill, Edward K., assignor of three-fourths to G. W. Delany and T. Wattson, Philadelphia, Pa. Game	367,991	Aug. 9	955	257	40	641
McGill, George W., New York, N. Y. Suspension-hook	359,324	Mar. 15	1290	335	38	1156
McGill, William A., assignor to himself and C. T. Cain, Owensborough, Ky. Producing and transferring picture-films to celluloid sheets	368,223	Aug. 16	1300		40	713
McGill, William C., Washington, D. C. Cash-register	360,360	Mar. 29	2929	{ 744 } { 745 }	{ 38 }	1478
McGill, William C., Washington, D. C. Cash-register	365,013	June 14	1166	306	39	1312
McGinnis, Alpheous A., Pittsburg, Pa. Churn	365,445	June 28	1817	473	39	1455
McGinnis, Francis A. (See Coquard and McGinnis.)						
McGinnis, Terry, Anaconda, Mont. Ter. Ore-roasting furnace	356,287	Jan. 18	1418	374	38	287
McGinty, William T. (See Holt and McGinty.)						
McGlauffin, Eugene O., assignor of one-half to W. McCrory, Minneapolis, Minn. Cable railway	359,802	Mar. 22	2044	518	38	1309
McGlogan, Cornelius C. (See Smyth, John M., assignor.)						
McGlothlen, Charles L., Stuart, assignor of one-fourth to W. F. Gould, Des Moines, Iowa. Railway-track	368,224	Aug. 16	1301	343	40	713
McGlynn, James H., and W. P. Howells, Wilkes-Barré, Pa. Clock-alarm	375,497	Dec. 27	1885	493	41	1437
McGovern, Bernard, Bridgeport, and J. H. Hewit, Fairfield, Conn. Hand-rubber for washing purposes	359,268	Mar. 15	1209	315	38	1141
McGowan, John, <i>et al.</i> (See Van Wie, Byron, assignor.)						
McGowan, William B. (See Morrow, Loving, and McGowan.)						
McGowen, Alexander and F. T., Houston, Tex. Cotton or hay press	362,299	May 3	317	87	39	535
McGowen, Frank T. (See McGowen, Alexander and F. T.)						
McGowen, John J., Ithaca, N. Y. Electric gas-lighter	370,801	Oct. 4	70	18	41	16
McGrath, Arthur E. (See Cannon and McGrath.)						
McGrath, Ellen E., Brooklyn, N. Y. Child's cradle	357,088	Feb. 1	487	130	38	512
McGrath, Nicholas B., and J. H. Pierce, Plantsville, Conn. Sash-fastener	373,993	Nov. 29	2569	690	41	988
McGrath, Thomas, Albany, N. Y. Journal-box	360,237	Mar. 29	2757	699	38	1446
McGrath, Thomas, Toledo, Ohio. Automatically-adjustable railway-crossing	373,149	Nov. 15	1318	349	41	731
McGrath, William H., <i>et al.</i> (See Belisle, Robert S., assignor.)						
McGraw, Albert P., McGrawville, N. Y. Attaching eyelets to articles of wearing-apparel	363,406	May 24	1875	492	39	849
McGraw, Charles E., <i>et al.</i> (See McGraw, George W., assignor.)						
McGraw, George W., Jr., <i>et al.</i> (See McGraw, George W., assignor.)						
McGraw, George W., assignor of one-half to J. A., G. W., Jr., H. L., and C. E. McGraw, Allegheny City, Pa. Machine for the manufacture of roofing	366,857	July 19	1523	{ 408 } { 409 }	{ 40 }	304
McGraw, Henry L., <i>et al.</i> (See McGraw, George W., assignor.)						
McGraw, John A., <i>et al.</i> (See McGraw, George W., assignor.)						
McGregory, Samuel E., St. Louis, Mo. Brick-machine	362,102	May 3	69	{ 20 } { 21 } { 22 } { 23 }	{ 39 }	486
McGrew, William H., assignor of one-half to J. Myers, Peru, Ind. Machine for making fences	361,308	Apr. 19	1326	{ 340 } { 341 }	{ 39 }	263
McGrew, William H., assignor of one-half to J. Myers, Peru, Ind. Wire-and-picket fence	373,596	Nov. 22	2006	532	41	870
McGriff, John N., Anderson, Ind. Corn-planter	363,407	May 24	1876	493	39	849
McGuinness, William. (See Carmody, John, assignor.)						
McGuire, Alexander. (See Teed, Ralph L., assignor.)						
McGuire, John S., Bayonne, N. Y. Expansible lunch-box	375,498	Dec. 27	1886	493	41	1437
McGuire, Thomas, Baltimore, Md. Curtain-fixture	373,674	Nov. 22	2113	565	41	894
McGuire, William, Chicago, Ill. Grain-car door	375,499	Dec. 27	1887	494	41	1438
McGuire, William G., Charleston, S. C. Wheelbarrow	366,334	July 12	803	217	40	159
McGunnigle, Patrick, New York, N. Y. Mouth-piece for speaking-tubes	374,746	Dec. 13	821	215	41	1216
McGurrin, Charles H., assignor of one-half to C. M. Stephens, Kalamazoo, Mich. Copy-holder for type-writers	365,837	July 5	108	30	40	23
McHale, John, assignor of one-half to A. H. Teush and T. Lahey, Terre Haute, Ind. Hydrocarbon generator and burner	362,984	May 17	1306	346	39	729
McHart, John C. (See Witherell, Erie A., assignor.)						
McHatton, Bowdrey, Odessa, Mo. Garden-plow	375,647	Dec. 27	2102	547	41	1477

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McHenry, Abram, Elmira, N. Y., assignor to S. A. Woods Machine Company. Planing-machine	374,313	Dec. 6	207	55	41	1085
McHenry, Dorcas F., Exchange, Pa. Heater	373,082	Nov. 15	1210	322	41	712
McHenry, Feargus G. (See Martin and McHenry.)						
McHenry, John M., Greenleaf, Kans. Shoe-fastener	374,984	Dec. 20	1196	311	41	1295
McHose, William, assignor of one-half to C. H. Lyon, Dayton, Ohio. Dust-chute	374,197	Dec. 6	45	12	41	1055
McHugh, Timothy, Boston, Mass. Water-supply apparatus for water-closets	362,897	May 10	1180	315	39	699
McHugh, Timothy, assignor of one-half to Ward & Curley, Boston, Mass. Device for controlling the operation of valves in tanks	362,764	May 10	1004	{ 272 273 }	{ 39 }	666
McHugh, Timothy, assignor of one-half to Ward & Curley, Boston, Mass. Device for controlling the operation of valves in tanks	362,765	May 10	1006	273	39	667
McHugh, Timothy, assignor of one-half to Ward & Curley, Boston, Mass. Flushing-valve	363,660	May 24	2255	584	39	923
McHugh, Timothy, assignor of one-half to W. H. Ward & Co., Boston, Mass. Supporting device for stand-pipes of set basins or similar fixtures	365,400	June 28	1753	454	39	1444
McHugh, Timothy, assignor of one-half to Ward & Curley, Boston, Mass. Valve for water-closet cisterns	365,617	June 28	2077	541	39	1507
McHugh, Timothy, assignor of one-half to W. H. Ward & Co., Boston, Mass. Sewer trap or valve	373,782	Nov. 22	2266	608	41	922
McIlhenny, George A., Washington, D. C. Gas-retort furnace	375,085	Dec. 20	1334	{ 348 349 }	{ 41 }	1321
McIlvenna, Felix, Manchester, county of Lancaster, and J. G. Rollason, assignors to J. Cadbury, Birmingham, county of Warwick, and W. P. Thompson, Liverpool, England. Trousers-stretcher. (Reissue)	10,808	Feb. 22	2414	642	38	895
McIlvried, John, assignor to C. B. Beach, Cleveland, Ohio. Rolling-mill	370,487	Sept. 27	1706	{ 452 453 }	{ 40 }	1377
McInerney, Michael. (See White, Frank G., assignor.)						
McInnes, Hugh, et al. (See Field, William, assignor.)						
McInnes, John, Jersey City, N. J. Bottle-stopper	374,263	Dec. 6	128	33	41	1071
McInnis, Angus. (See Findlay and McInnis.)						
McIntire, Albert A., Boston, assignor to J. H. Currier, Somerville, Mass. Mechanical musical instrument	355,880	Jan. 11	830	217	38	168
McIntosh, John E., Auburn, N. Y. Engine-crank	360,711	Apr. 5	451	115	39	84
McIntosh, Thomas. (See Wamsley and McIntosh.)						
McIntyre, William, Huron, Dak. Ter. Cross-head pushing device	359,803	Mar. 22	2045	518	38	1310
McIntyre, Augustin W., assignor to C. MacKenzie, Chicago, Ill. Bolt	367,827	Aug. 9	719	193	40	595
McIntyre, Edgar F., Chicago, Ill. Plow-standard	372,228	Oct. 25	2162	555	41	446
McIntyre, Farrington. (See Barlow, Thomas L., assignor.)						
McIntyre, James, assignor of one-half to J. A. Stetson, Boston, Mass. Ship-building	367,828	Aug. 9	720	{ 193 194 }	{ 40 }	596
McIntyre, John, New York, N. Y. Steam-condenser	357,401	Feb. 8	946	249	38	606
McIntyre, Malcolm F., assignor of one-half to D. E. Day, Girard, Pa. Bosom-board	364,361	June 7	210	58	39	1128
McIntyre, Peter, New York, N. Y. Apparatus for molding perforated blocks	368,409	Aug. 16	1546	412	40	763
McKaig, Eddy T., Chicago, Ill. Frame adapted for use with various machines	361,534	Apr. 19	1621	420	39	319
McKanna, Amos, Bunker Hill, Kans. Attachment for towel-brackets	368,728	Aug. 23	2013	533	40	859
McKay, Alexander. (See Park, John, assignor.)						
McKay & Bigelow Heeling Machine Association. (See Glidden, Charles W., assignor.)						
McKay & Copeland Lasting Machine Company. (See Brock, Matthias, assignor.)						
McKay, James S., Big Oak Flat, assignor of one-half to A. W. McLean, San Francisco, Cal. Animal-trap	371,693	Oct. 18	1355	350	41	283
McKechnie, Archibald E. (See Wicks, George W., assignor.)						
McKee, David E., assignor of one-third to H. P. McGee, Potter Valley, Cal. Lifting-machine	363,476	May 24	1986	519	39	871
McKee, H. Sellers, Pittsburg, Pa. Pipe-coupling	372,479	Nov. 1	286	79	41	525
McKeen, Henry C., Terre Haute, Ind. Grader and purifier	362,766	May 10	1008	{ 273 274 }	{ 39 }	667
McKeen, Thomas L., Easton, Pa. Car-coupling	361,171	Apr. 12	1132	286	39	215
McKeldin, Otis H., Louisville, Ky. Spindle and bearing therefor	357,847	Feb. 15	1616	420	38	740
McKellar, R. N. (See Webb, Samuel J., assignor.)						
McKellar, Reuben N. (See Webb, Samuel J., assignor.)						
McKelvey, Samuel P., and G. L. Van Beek, St. Louis, Mo., assignors to St. Louis Car Seat Company. Reversible seat	363,661	May 24	2257	585	39	923
McKendree, Albert C., Conneaut, Ohio, assignor of one-half to J. Warfel, Erie, Pa. Logging-sleigh bolster	371,273	Oct. 11	764	196	41	158
McKenna, Francis L. (See Dalton, John, assignor.)						
McKenna, John, Johnstown, Pa. Railway-frog	359,087	Mar. 8	968	248	38	1088
McKenna, John, Johnstown, Pa. Blind-switch	359,088	Mar. 8	970	248	38	1089
McKenna, John, Johnstown, Pa. Railway-crossing	359,089	Mar. 8	970	249	38	1089
McKenna, John E., St. Louis, Mo. Chimney-cap	357,017	Feb. 1	383	102	38	493
McKenna, Robert, White, Tenn. Centrifugal speed-governor	361,251	Apr. 12	1246	318	39	237
McKenney, Almeron, Englewood, Ill. Railway-crossing	372,229	Oct. 25	2164	{ 555 556 }	{ 41 }	446
McKenney, Almeron, Englewood, Ill. Railway-tie	372,230	Oct. 25	2166	556	41	446
McKenney, Francis T., Falmouth, Ky. Car-coupling	361,437	Apr. 19	1502	387	39	295
McKenzie, Allen W., assignor to H. W. McKenzie, Black Earth, Wis. Windmill	356,145	Jan. 18	1224	325	38	250
McKenzie, Daniel, assignor of two-thirds to W. N. Walton, Watrousville, and G. Reid, Reese, Mich. Device for securing harrow or cultivator teeth	358,869	Mar. 8	678	168	38	1033
McKenzie, Heman W. (See McKenzie, Allen W., assignor.)						
McKenzie, John S. (See Snyder, Charles W., assignor.)						
McKenzie, Joseph C. (See Knapp, McKenzie, and Humphrey.)						
McKeon, John, San Francisco, Cal. Pin-rail attachment for vessels	360,535	Apr. 5	207	51	39	40
McKernan, Peter. (See Clark and McKernan.)						
McKesson, Charles L., Longton, Kans. Cloth-measuring machine	368,410	Aug. 16	1547	413	40	763
McKibbin, George, New York, N. Y. Paper-clip	355,943	Jan. 11	929	243	38	189
McKillip, William. (See Snyder, Christopher, assignor.)						
McKim, Charles E. (See McKim, George W., assignor.)						
McKim, George W., assignor to C. E. McKim, Martin's Ferry, Ohio. Machine for jointing staves	357,615	Feb. 15	1270	334	38	677
McKinlay, James, Brooklyn, assignor to Richardson & Boynton Company, New York, N. Y. Steam or hot-water boiler	374,615	Dec. 13	643	{ 168 169 }	{ 41 }	1180
McKinley, Benjamin F., Cincinnati, Ohio. Hot-air engine	356,146	Jan. 18	1228	326	38	250
McKinley, Benjamin F., Cincinnati, Ohio. Hot-air engine	356,147	Jan. 18	1229	326	38	251
McKinley, David, Toledo, Ohio. End-gate for coal-cars	369,018	Aug. 30	2416	{ 641 642 }	{ 40 }	947
McKinley, Jeremiah S. (See Eagleston, Joseph, assignor.)						
McKinney, Walter S., Binghamton, N. Y. Stop-motion	356,847	Feb. 1	147	39	38	450

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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McKinney, Walter S., Binghamton, N. Y. Machine for making paper trays.....	363,662	May 24	2258	{ 585 586	{ 39	924
McKinney, William H., Evansville, Ind. Non-conducting jacket.....	363,663	May 24	2262	587	39	924
McKinnie, William J. (See Ormsby, Alexander, assignor.)						
McKinnie, William J. (See Pleasance, Benjamin J., assignor.)						
McKinnon, Archibald C., San Francisco, Cal. Pencil-sharpener.....	359,026	Mar. 8	894	228	38	1074
McKinnon, Donald T., assignor of one-half to J. McKinnon, Lowell, Mass. Measuring-canister.....	360,608	Apr. 5	312	76, 77	39	60
McKinnon, Duncan W., North Sydney, Nova Scotia, Canada. Mattress-protector.....	371,342	Oct. 11	862	221	41	176
McKinnon, Duncan W., North Sydney, Cape Breton, Nova Scotia, Canada. Felly-bolt....	375,177	Dec. 20	1466	383	41	1346
McKinnon, John. (See McKinnon, Donald T., assignor.)						
McKnight, Edward, assignor to W. P., H. B., and J. Tatham, Philadelphia, Pa. Apparatus for covering insulated electrical conductors.....	372,550	Nov. 1	393	106	41	545
McKoon, Merritt P., El Cajon, Cal. Tent.....	357,329	Feb. 8	847	221	38	587
McLachlan, John C., London, Ontario, Canada, assignor to Johnston Harvester Company, Batavia, N. Y. Harvester.....	357,616	Feb. 15	1272	334	38	677
McLachlin, Hugh F. (See Harvey, William, assignor.)						
McLain, George W., Pataskala, Ohio. Gate.....	356,692	Jan. 25	1990	523	38	402
McLain, James W., assignor of one-half to J. B. Bucher, Sunbury, Pa. Table.....	360,712	Apr. 5	452	115	39	84
McLain, Ralph, Ontario, Ind. Machine for cleaning grain.....	355,546	Jan. 4	326	87	38	66
McLane, John, Milford, N. H. Letter-box.....	361,172	Apr. 12	1134	286	39	215
McLaren, John R., Jr., Montreal, Quebec, Canada. Toboggan.....	363,157	May 17	1543	408	39	777
McLaren, John R., Jr., Montreal, Quebec, Canada. Snow-shovel.....	368,102	Aug. 9	1107	294	40	669
McLaren, Lannes M., Crescent City, Cal. Device for lifting goods from shelves.....	373,939	Nov. 29	2487	{ 667 668	{ 41	972
McLaughlin, Charles E., Loudonville, Ohio. Adjustable coffin-bracket.....	365,268	June 21	1548	404	39	1392
McLaughlin, George C., Sedalia, Mo. Mosquito-net-supporting frame for folding bedsteads.....	359,804	Mar. 22	2046	518	38	1310
McLaughlin, James F., Philadelphia, Pa. Carrier for electro-pneumatic dispatch-tube systems.....	359,456	Mar. 15	1484	380	38	1192
McLaughlin, James F., Philadelphia, Pa. Electrical pneumatic dispatch-tube.....	359,540	Mar. 15	1617	415	38	1217
McLaughlin, James F., Philadelphia, Pa. Electrical synchroal escapement.....	359,805	Mar. 22	2048	519	38	1310
McLaughlin, James F., Philadelphia, Pa. Transmitter for electrical type-writers.....	363,158	May 17	1544	408	39	777
McLaughlin, James F., Philadelphia, Pa. Apparatus for extinguishing fires on railway-trains.....	367,350	July 26	2213	{ 594 595	{ 40	441
McLaughlin, James F., Philadelphia, Pa. Electrical type-writer.....	367,650	Aug. 2	431	{ 120 121	{ 40	533
McLaughlin, James F., Philadelphia, Pa. Synchroal motor for electrical type-writers.....	368,417	Aug. 16	1549	{ 413 414	{ 40	763
McLaughlin, James F., Philadelphia, Pa. Automatic reverse movement and spacing mechanism for electrical and mechanical type-writers.....	369,954	Sept. 13	910	{ 242 243	{ 40	1214
McLaughlin, James F., Philadelphia, Pa. Galvanic battery.....	375,559	Dec. 27	1976	514	41	1454
McLaughlin, James F., Philadelphia, Pa. Electric motor.....	375,560	Dec. 27	1977	514	41	1454
McLaughlin, James F., Philadelphia, Pa. Primary electric battery.....	375,561	Dec. 27	1977	515	41	1454
McLaughlin, Patrick, assignor of one-half to J. E. Drake, Quincy, Mass. Edge-setting machine.....	374,314	Dec. 6	208	55	41	1085
McLaughlin, Robert, Oshawa, Ontario, Canada. Fifth-wheel.....	360,609	Apr. 5	314	77	39	60
McLaughlin, Robert, Oshawa, Ontario, Canada. Thill-coupling.....	360,610	Apr. 5	314	77	39	60
McLean, A. W. (See McKay, James S., assignor.)						
McLean, Anthony, and F. Cumming, San Francisco, Cal. Filter.....	357,402	Feb. 8	948	249	38	607
McLean, Charles, Boston, Mass. Dentistry.....	363,904	May 31	2603		39	994
McLean, Donald M., Boston, Mass. Molding kettles, &c., with hinge-pins.....	357,778	Feb. 15	1529	398	38	723
McLean, Neil, Watonsville, Cal. Reversible plow.....	364,362	June 7	211	58	39	1128
McLean, Seth A., Bay City, Mich. Re-enforce for spikes.....	364,766	June 14	803	212	39	1246
McLean, Seth A., Bay City, Mich. Spike-point.....	364,767	June 14	805	212	39	1246
McLean, Silamon, Mineral Springs, S. C. Cotton-seed mill.....	362,028	Apr. 26	2362	616	39	460
McLean, Thomas C., U. S. Navy. Thermometer attachment for ships' chronometers.....	370,400	Sept. 27	1570	{ 420 421	{ 40	1353
McLeland, John A., Scircleville, Ind. Machine for constructing fences.....	365,838	July 5	109	30	40	23
McLennan, John A., Chicago, Ill. Grain-elevator.....	371,343	Oct. 11	863	{ 221 222	{ 41	176
McLeod, Alexander, assignor of one-half to Z. Jones, Somerset, Ky. Car-replacer.....	360,320	Mar. 29	2869	730	38	1468
McLeod, Angus, assignor of one-half to W. Templeton and G. M. Beeman, Napanee, Ontario, Canada. Milk-cooler.....	373,242	Nov. 15	1462	385	41	757
McLeod, John. (See Humble and McLeod.)						
McLeod, Roderick A., West Macedon, N. Y., assignor to T. B. Everett, Boston, Mass. Fertilizer attachment for seed-drills.....	374,367	Dec. 6	284	75	41	1100
McLoughlin, Edmund, <i>et al.</i> (See Campbell, Andrew, assignor.)						
McLoughlin, John, <i>et al.</i> (See Campbell, Andrew, assignor.)						
McMahan, Hugh, New Cumberland, W. Va. Flue or chimney lining.....	357,018	Feb. 1	384	102	38	493
McMahan, John W., and E. S. Whittemore, assignors to themselves and H. H. Page, Huntingdale, Mo. Corn-planter and check-rower.....	372,480	Nov. 1	287	79	41	525
McMahon, Francis, Somerville, Mass. Car-coupling.....	369,949	Sept. 13	904	241	40	1213
McMahon, Patrick J., Chicago, Ill. Sewer-cap.....	360,168	Mar. 29	2658	671	38	1427
McMahon, Patrick J., New Orleans, La. Preparing anhydrous ammonia.....	367,992	Aug. 9	956	258	40	641
McMahon, Patrick J., New Orleans, La. Apparatus for recovering ammonia in ammonia-motors, &c.....	367,993	Aug. 9	959	258	40	642
McMahon, Thomas, Brooklyn, N. Y. Machine for making wire nails.....	372,320	Nov. 1	53	16	41	481
McMann, William A. (See Moore and McMann.)						
McManus, James. (See McManus, Robert D., assignor.)						
McManus, Michael, Philadelphia, Pa. System of railway-car propulsion.....	371,344	Oct. 11	865	222	41	176
McManus, Robert D., assignor to J. McManus, Hartford, Conn. Shoe-blackening holder and rest.....	365,696	June 28	2190	572	39	1527
McMartin, Daniel C., Des Moines, Iowa. Revolving case for books.....	365,085	June 21	1282	339	39	1343
McMaster, Edwin R., Bellona, N. Y. Windmill.....	361,709	Apr. 26	1892	490	39	377
McMaster, Francis E., Millburn, Pa. Flour-bolting reel.....	364,423	June 7	309	85	39	1147
McMaster, Mary A., Antioch, Cal. Carpet-weaver.....	371,468	Oct. 11	1033	269	41	210
McMaster, Robert O., Wheeling, W. Va. Nasal respirator.....	369,019	Aug. 30	2418	642	40	947
McMaster, Samuel C. (See McClurg and McMaster.)						
McMeen, John D., Mount Vernon, Ill. Device for exhibiting school-charts.....	374,486	Dec. 6	453	117	41	1132
McMichael, Frank, Dubois, Pa. Coupon-ticket.....	359,620	Mar. 22	1774	451	38	1260
McMicken, Albert C., Winnipeg, Manitoba, Canada. Combined discount-measuring glass and bank-note examiner.....	373,597	Nov. 22	2007	532	41	871
McMillan, Peter T., and H. T. Hill, Bay Shore, N. Y. Thill-coupling.....	364,032	May 31	2798	724	39	1031

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McMillin, Josephus F., Mount Pleasant, Pa. Milk-pail	370,639	Sept. 27	1934	512	40	1420
McMinn, Nathan. (See Heatherly, Mitchell R., assignor.)						
McMullett, James F., Philadelphia, Pa., assignor to J. W. Brooks, trustee, Cambridge, Mass. Heel-nailing machine	373,409	Nov. 15	1714	453	41	804
McMullin, Joseph, Casey, Iowa. Tile-laying machine	361,309	Apr. 19	1328	341	39	263
McNair, William A., Elsie, Ill. Device for removably attaching pulleys to different-sized shafts	362,767	May 10	1010	274	39	668
McNair, William L., Denver, Colo. Ore-reducing furnace	368,481	Aug. 16	1656	442	40	783
McNair, William L., Denver, Colo. Gas-producer	370,273	Sept. 20	1380	370	40	1309
McNally, Austin, assignor of one-half to J. A. Hayes, Cascade, Iowa. Trace-carrier	371,345	Oct. 11	867	223	41	177
McNamara, S. Burton, Haverhill, Mass. Shoe-last	373,840	Nov. 29	2352	632	41	947
McNamee, Edward, <i>et al.</i> (See Thompson, John L., assignor.)						
McNaughton, James. (See Small and McNaughton.)						
McNaughton, James E., Manchester, Vt. Charcoal-kiln	360,238	Mar. 29	2758	699	38	1447
McNeal, Andrew H., and W. A. Stineruck, Burlington, N. J. Pipe-molding apparatus ..	359,269	Mar. 15	1210	316	38	1141
McNeal, C. A., <i>et al.</i> (See Ward, William W., assignor.)						
McNeal, Charles, assignor to Dodge Manufacturing Company, Mishawaka, Ind. Boring-machine	359,270	Mar. 15	1212	{ 316 317 }	{ 38 }	1142
McNeal, Charles, assignor to Dodge Manufacturing Company, Mishawaka, Ind. Rabbeting-machine	368,845	Aug. 23	2173	576	40	890
McNeal, Herbert W., Ferndale, Cal. Hand-weeder	369,119	Aug. 30	2566	682	40	975
McNeil, Emily. (See Robinson, Ward E., assignor.)						
McNeill, Charles D., Goliad, Tex. Hay-press	366,233	July 12	667	{ 180 181 }	{ 40 }	134
McNeill, Hobart W., Oskaloosa, Iowa. Cable-railway car	371,694	Oct. 18	1356	351	41	283
McNeill, Hobart W., Oskaloosa, Iowa. Cable-railway apparatus	371,695	Oct. 18	1359	{ 351 352 353 }	{ 41 }	284
McNeill, Hobart W., Oskaloosa, Iowa, assignor to Rasmusen Cable Company, Chicago, Ill. Cable-railway apparatus	357,723	Feb. 15	1433	{ 376 377 }	{ 38 }	706
McNeill, Hobart W., Oskaloosa, Iowa, assignor to Rasmusen Cable Company, Chicago, Ill. Cable-railway car	358,685	Mar. 1	394	95	38	977
McNeill, John E. (See Shanklin and McNeill.)						
McNeill, William D. (See Parnell, William R., assignor.)						
McNelly, M. Frank, Sterling, Ill. Mining-machine	356,488	Jan. 25	1711	{ 446 447 }	{ 38 }	349
McNett, Lyman F., New York, N. Y. Carburetor	356,950	Feb. 1	283	78	38	474
McNish, Thomas T., Allegheny City, Pa. Gas fire-place	374,801	Dec. 13	902	236	41	1232
McNiven, Daniel. (See Mossberg, Frank, assignor.)						
McNutt, Lewis, Brazil, Ind. Shade-exhibitor	370,967	Oct. 4	345	86	41	68
McNutt, William F., San Francisco, Cal. Vehicle-axle	365,144	June 21	1376	364	39	1360
McPherson, Henry, and M. Sweet, assignors to Sweet & Clark Manufacturing Company, Troy, N. Y. Curry-comb	356,543	Jan. 25	1781	464	38	362
McPherson, Jerry, Cherryville, N. J. Carpet-fastener	369,355	Sept. 6	69	19	40	1047
McPherson, Leon O. (See Pratt and McPherson.)						
McRae, Alexander. (See Hill and McRae.)						
McRae, Charles J., assignor of one-half to L. U. Courter and J. C. Welsh, Kansas City, Kans. Paper-file	361,772	Apr. 26	1981	516	39	392
McRae, John A. (See James, Albert R., assignor.)						
McRae, William D. (See Roberts, Dugald H., assignor.)						
McReynolds, Samuel M., Poseyville, Ind. Portable awning	372,551	Nov. 1	395	106	41	546
McShane, William, assignor to T. McAvity & Sons, St. John, New Brunswick, Canada. Injector	362,300	May 3	318	88	39	535
McSherry, Daniel E., Dayton, Ohio. Disk-harrow	357,724	Feb. 15	1437	377	38	707
McSweeney, Terrence, Allegheny, assignor of one-half to T. A. Gillespie, Pittsburg, Pa. Composition for packing joints and other purposes	356,411	Jan. 18	1593	.....	38	319
McSweeney, Terrence, Allegheny, assignor to T. A. Gillespie, Pittsburg, Pa. Diaphragm for fluid-pressure regulators	370,152	Sept. 20	1218	323	40	1279
McSweeney, Terrence, Allegheny, assignor of one-half to T. A. Gillespie, Pittsburg, Pa. Composition for the manufacture of structural articles	372,552	Nov. 1	396	.....	41	546
McSweeney, Terrence, Allegheny, assignor of one-half to T. A. Gillespie, Pittsburg, Pa. Composition pipe	372,631	Nov. 1	513	141	41	568
McTammay, John, Worcester, Mass. Automatic musical instrument	374,616	Dec. 13	646	169	41	1181
McTighe, Thomas J. (See Ball and McTighe.)						
McTyre, William, Madison, Ind. Coffee or tea pot	364,597	June 7	553	149	39	1192
McVay, Edmund C., Easton, Pa. Letter and bill file	358,870	Mar. 8	679	168	38	1033
McVay, William, Quincy, Ill. Electrical gas-alarm	358,161	Feb. 22	2061	542	38	827
McWane, Henry E., and M. H. Dudley, Lynchburg, Va. Hillside-plow	372,481	Nov. 1	289	80	41	525
McWhinney, Le Roy, Creston, Iowa. Plow	366,420	July 12	902	243	40	178
McWhorter, James K., Salem, Va. Washing compound	365,269	June 21	1549	.....	39	1393
McWilliams, John. (See Brown, William, assignor.)						
McWilliams, Wright H., Waco, Tex. Bee-feeder	357,493	Feb. 8	1077	284	38	631
Meacham, Thomas W. (See Latulip, Frederick, assignor.)						
Meacom, George, Chelsea, assignor to P. W. French, trustee, Weymouth, Mass. Hose ..	359,222	Mar. 8	1149	299	38	1122
Meacom, George, Chelsea, assignor to Wire Fabric Rubber Company, Boston, Mass. Belt-ing	372,632	Nov. 1	514	141	41	568
Mead, Charles R., Oneida, N. Y. Lathe-chuck	372,482	Nov. 1	291	80	41	526
Mead, Clarence W. (See Fischer, Philipp, assignor.)						
Mead, Egbert S., Winona, Minn. Whiffletree-hook	362,768	May 10	1011	274	39	668
Mead, Egbert S., Winona, Minn. Corner-plate for vehicle-bodies	362,985	May 17	1308	347	39	730
Meador, Edwin W., Lisbon, Me. Inhaler	357,617	Feb. 15	1274	335	38	678
Meador, Walter B., Leonard, Mo. Hog-nose trimmer	368,846	Aug. 23	2175	576	40	891
Meador, John F., Prescott, Ariz. Ter. Paper-cutter	372,483	Nov. 1	292	80	41	526
Meador, William H., and R. Carl, Grenada, Miss. Cotton-press	363,159	May 17	1550	409	39	778
Meadowcroft, Charles, and P. Denanhouer, Philadelphia, Pa. Apparatus for dying skeins.	359,806	Mar. 22	2049	519	38	1310
Meads, Simeon P., Oakland, Cal. Electric alarm-clock	371,696	Oct. 18	1365	353	41	285
Meadville Wire Nail Company. (See Higgs, Joseph W., assignor.)						
Meady, Albert C. (See Crosby and Meady.)						
Meady, Albert C., Somerville, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Safety-valve	374,617	Dec. 13	648	169	41	1181
Meady, Albert C., Somerville, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Steam-engine indicator	375,086	Dec. 20	1337	349	41	1322
Meady, Albert C., Somerville, and W. A. Dodge, assignors to Crosby Steam Gage and Valve Company, Boston, Mass. Pressure-gage	373,532	Nov. 22	1918	508	41	854

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Meagley, Roselle H., <i>et al.</i> (See Noyes, Joseph P., assignor.)						
Meaker, John W., assignor to Railway Register Company, Chicago, Ill. Fare-register	357,725	Feb. 15	1438	{ 377 378 }	{ 38 39 }	707 1527
Meaker, John W., assignor to Railway Register Company, Chicago, Ill. Fare-register	365,697	June 28	2191	572	39	1527
Mealey, Alfred M., Coldwater, Kans. Stove-pipe attachment for flues	365,145	June 21	1376	364	39	1360
Mealey, George. (See Gaskin, Robert, assignor.)						
Mechanical OrguINETTE Company. (See Chase, J. Herbert, assignor.)						
Mechanical OrguINETTE Company. (See Pain, Robert W., assignor.)						
Meehem, Oliver H., ConnelSVILLE, Pa., assignor to R. Dudgeon, Glen Cove, N. Y. Hy- draulic jack	369,992	Sept. 13	971	257	40	1226
Meckel, Frederick, Brooklyn, N. Y. Clothes-line fastener	355,332	Jan. 4	56	15	38	12
Medart, Philip, St. Louis, Mo. Friction-clutch	364,945	June 14	1071	279	39	1295
Medden, Edwin, assignor to Silsby Manufacturing Company, Seneca Falls, N. Y. Heater.	365,618	June 28	2078	542	39	1507
Meddins, Charles H., Neenah, Wis. Convertible chair	374,802	Dec. 13	903	236	41	1232
Medford, Thomas. (See McDowell and Medford.)						
Medrick, Erastus G., Middletown, N. Y. Clamp for the valve-rods of locomotive-engines..	358,871	Mar. 8	680	169	38	1033
Medrick, Erastus G., Middletown, N. Y. Stuffing-box	369,869	Sept. 13	782	208	40	1191
Medsker, William F., <i>et al.</i> (See Bales, Thomas M., assignor.)						
Meech, Peter K. (See Altman and Meech.)						
Meehan, David C., Columbus, Ohio. Pigeon-hole case	357,403	Feb. 8	948	250	38	607
Meehan, J. P., <i>et al.</i> (See Paris, Paul G., assignor.)						
Meehan, William. (See Barnes, Charles E., assignor.)						
Meek, Henry, Oregon, Ill. Sled	355,775	Jan. 11	666	173	38	139
Meeker, Charles, Albina, Oreg. Vermin-eradicator	365,930	July 5	249	65	40	48
Meeker, Edwin C., Newark, N. J., assignor to Novelty Manufacturing Company, Water- bury, Conn. Ornamental tablet	369,407	Sept. 6	135	39	40	1058
Meeker, Lorenzo, assignor to Huron Block and Novelty Company, Huron, Ohio. Lifting- jack	362,029	Apr. 26	2364	616	39	461
Meeker, Walter C., Jersey City, N. J. Railway-switch	370,274	Sept. 20	1381	371	40	1310
Meeker, Walter C., and T. R. Brown, Jersey City, N. J. Railway-switch stand	364,722	June 14	724	193	39	1233
Meerbott, William, Jr., Jersey City, N. J. Interchangeable-initial ring	363,076	May 17	1434	379	39	755
Meetze, Henry M., Charleston, S. C. Cotton or hay press	368,225	Aug. 16	1302	343	40	713
Meeze, Arthur G., Redhill, county of Surrey, England. Apparatus for heating and cooling? fluids	373,564	Nov. 22	1958	{ 519 520 }	{ 41 40 }	861 304
Mefferd, George W., Stephenville, Tex. Water-elevator	366,858	July 19	1526	409	40	304
Megee, Andrew J., assignor, by mesne assignments, to M. Megee Company, Philadelphia, Pa. Book-binding	364,624	June 7	581	156	39	1197
Megee Company, Miller. (See Megee, Andrew J., assignor.)						
Meggers, John, Charlotte, Iowa. Hay-carrier counter-balance	372,693	Nov. 8	607	165	41	595
Megorden, Holiver, Farmington, N. Mex. Ter. Printer's chase	362,301	May 3	319	88	39	535
Megowan, Robert, Philadelphia, Pa. Weft-winding machine	373,675	Nov. 22	2114	565	41	894
Megown, Thomas J., Beaver Falls, Pa. Car-brake	365,839	July 5	111	30	40	23
Megown, Thomas J., Beaver Falls, Pa. Automatic brake for railway-cars	365,840	July 5	112	31	40	23
Megown, Thomas J., assignor of two-thirds to A. Stone, Beaver Falls, Pa., and H. C. Ise- man, Ithaca, Mich. Leveling-instrument	360,536	Apr. 5	208	51	39	41
Meharg, George W., Vincit, Mo. Protector for brick fire-places	367,154	July 26	1925	519	40	388
Mehren, Jacob F., assignor to Western Electric Company, Chicago, Ill. Electrical circuit.	357,726	Feb. 15	1444	378	38	708
Mehren, Jacob F., assignor to J. F. Wollensak, Chicago, Ill. Trap-lock	372,923	Nov. 8	965	262	41	657
Mehren, Jacob F., and W. Carroll, assignors to Police Telephone and Signal Company, Chicago, Ill. Police-telegraph system	359,575	Mar. 15	1683	430	38	1228
Meier, William C., Detroit, Mich. Sewing-machine guide	371,613	Oct. 18	1239	322	41	260
Meigs, Edmund H., assignor of one-half to A. A. Barnes, East Berlin, Conn. Car-brake...	355,654	Jan. 4	486	130	38	95
Meikle, James, Providence, R. I. Apparatus for washing and bleaching	366,335	July 12	804	217	40	159
Meikle, Thomas, Louisville, Ky. Colter-coupler plate	360,034	Mar. 29	2426	616	38	1387
Meiklejohn, John. (See Smith and Meiklejohn.)						
Meinhard, Otto J., Chicago, Ill. Padlock	367,829	Aug. 9	721	194	40	596
Meise, Eduard, Allegheny City, Pa. Game-counter	374,803	Dec. 13	907	237	41	1233
Meise, Eduard, Allegheny City, Pa., assignor of one-fourth to O. Zistel, Sandusky, Ohio. Permutation-padlock	372,425	Nov. 1	210	59	41	509
Meiser, Rudolph J., Cincinnati, Ohio. Apparatus for tanning	366,785	July 19	1426	381	40	286
Mejer, Gustaf E., Providence, R. I. Electric clock	364,429	June 7	310	85	39	1147
Melançon, Egisippe D., assignor of two-thirds to A. Barthelemy and D. Ohlmeyer, Donald- sonville, La. Wooden back-band for harness	371,206	Oct. 11	670	171	41	140
Melancon, Phlegie R. (See Lombas, Joseph A., assignor.)						
Melander, Perry, Ottawa, Kans. Chimney-cap	355,944	Jan. 11	930	243	38	189
Melbourne, William A., Swanwick, assignor of one-half to S. K. Burton, Belleville, Ill. Telegraph-instrument	366,970	July 19	1664	447	40	331
Melcher, Fredrick W. and J. E., Omaha, Nebr. Cutting apparatus for mowing-machines...	371,963	Oct. 25	1762	456	41	373
Melcher, J. Ernest. (See Melcher, Fredrick W. and J. E.)						
Melchior, Edward, Chicago, Ill. Argand burner	367,421	Aug. 2	89	24	40	468
Melhorn, William E., assignor to S. S. Caughey, Erie, Pa., and F. T. Caughey, Union City, Mich. Kitchen utensil known as cooks' tongs	356,657	Jan. 25	1947	511	38	394
Mell, James A., Moline, assignor of one-half to F. W. Bates, Grand Rapids, Mich. Oar- lock	360,895	Apr. 12	711	188	39	139
Mellet, Lemuel, Milford, Mass. Electrical ore-detector	367,422	Aug. 2	91	24	40	468
Mellet, Lemuel, Milford, assignor to himself and C. A. Shaw, Boston, Mass. Potato-digger.	357,618	Feb. 15	1275	335	38	678
Mellet, Lemuel, and J. Prince, Milford, assignors to said Mellett and G. Reed, Fitchburg, Mass. Electric ore-indicator	367,541	Aug. 2	268	76	40	503
Mellor, William, New York, N. Y. Soldering-iron heater	370,552	Sept. 27	1803	480	40	1395
Melotte, George W., Ithaca, N. Y. Forceps	370,204	Sept. 20	1292	344	40	1293
Meltzer, Herman L., New York, N. Y. Reversible garment	365,841	July 5	113	31	40	23
Melven, Theophilus L. (See Winstandley, Smith, and Melven.)						
Melville, Frank B., assignor of one-half to R. Rees, Minneapolis, Minn. Bustle	372,633	Nov. 1	516	141	41	568
Melville, Thompson. (See Burkin and Melville.)						
Melvin, Jerome B., Lowell, Mass., assignor of two-thirds to R. Norwood, London, England. Hardening resins	370,640	Sept. 27	1935	.....	40	1420
Memmert, Charles, Washington, D. C. Bedroom sanitary closet	364,430	June 7	313	85	39	1147
Mendenhall, Alice E., Visalia, Ky. Skimming device for milk-cans	370,275	Sept. 20	1382	371	40	1310
Mendenhall, Amos, Unionport, Ind. Gold-mining device	360,713	Apr. 5	453	115	39	84
Mendenhall, Carleton, assignor of one-fourth to P. Delano, Brooklyn, N. Y. Car-axle box	358,872	Mar. 8	681	169	38	1034
Mendenhall, Hiram. (See Mathias and Mendenhall.)						
Mendenhall, John C. (See Williams, William, assignor.)						
Mendenhall, John C., Indianapolis, Ind. Sweat-pad fastener	367,423	Aug. 2	93	25	40	469
Mendenhall, Walter S., assignor to S. C. Tatum & Co., Cincinnati, Ohio. Copying-bath...	366,421	July 12	903	244	40	178

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Mendham, William, assignor to C. Chambers, Jr., Philadelphia, Pa. Apparatus for preparing clay	370,553	Sept. 27	1804	480	40	1395
Mendizabal, Manuel, Brooklyn, N. Y. Cigarette-box	369,408	Sept. 6	136	39	40	1058
Meneely Hardware Company. (See Gibbons, John, assignor.)						
Meneely Hardware Company. (See Gibbons, John, assignor.) (Reissue.)						
Menge, Bernard J. M., Cincinnati, Ohio. Lamp	373,083	Nov. 15	1211	{ 323 324 }	{ 41 38 }	712
Mengeler, Louis, Elgin, Ill. Stock-car	357,219	Feb. 8	702	181	38	560
Mensching, Carl. (See Vollbrecht and Mensching.)						
Mensinga, Frederik C., Toronto, Ontario, Canada. Device for stretching pantaloons	364,838	June 14	919	243	39	1267
Menzel, Wilhelm. (See Finger and Menzel.)						
Menzenhauer, Friedrich, Jersey City, N. J., assignor of one-half to S. Dietch, New York, N. Y. Tremolo attachment for cornets	369,804	Sept. 13	670	182	40	1170
Menzies, John, San Francisco, Cal. Stern-tube bushing for propeller-shafts	370,802	Oct. 4	71	18	41	16
Mercadante, Jose E., Rio de Janeiro, Brazil. Indicator	365,531	June 28	1950	507	39	1483
Mercer, Frederick D. and J. S., Dereham, Ontario, Canada. Harvester-binder	368,542	Aug. 16	1745	464	40	799
Mercer, John S. (See Mercer, Frederick D. and J. S.)						
Mercer, W. R. (See Garvin, Samuel, assignor.)						
Mercer, William H., Mercer, S. C. Combined cotton chopper and scraper	355,547	Jan. 4	327	87	38	66
Merchants Store Railway Company. (See Fisher, Frank E., assignor.)						
Merck, Emanuel, Darmstadt, Hesse, Germany. Obtaining peptone	369,729	Sept. 13	573		40	1153
Merckelbagh, Charles, Brussels, Belgium. Car starter and brake	373,994	Nov. 29	2570	691	41	988
Merdian, George, Vancouver, Wash. Ter. Auger	369,020	Aug. 30	2419	642	40	947
Meredith, John T., Buchtel, Ohio. Device for lowering coffins	363,530	May 24	2073	537	39	888
Meredith, Yancy B., Fort Wayne, Ind. Arm-rest	367,309	July 26	2153	579	40	430
Mergott, Julius E. (See Kaufmann and Mergott.)						
Mergott, Ludwig F., Newark, N. J. Joint for boxes	372,694	Nov. 8	608	165	41	595
Meriden Bronze Company. (See Patzer, William, assignor.)						
Meriden Casket Trimming Company. (See Morgan, Hubert W., assignor.)						
Merkel, Charles and G., Philadelphia, Pa.; said Charles Merkel assignor to said G. Merkel. Folding desk and blackboard	365,698	June 28	2194	573	39	1527
Merkel, George. (See Merkel, Charles and G.)						
Merkel, John. (See Benso and Merkel.)						
Merklen, Martin, New York, N. Y. Table	362,172	May 3	163	47	39	505
Merlette, John, Sr., assignor of one-half to B. B. Matthews, Bound Brook, N. J. Means for propelling and steering vessels	374,985	Dec. 20	1196	311	41	1295
Mermod & Bornaud, G. (See Perrier, Georges, assignor.)						
Mermod Frères. (See Campiche, Louis, assignor.)						
Mern, John P., et al. (See Turnberger, Louis, assignor.)						
Merredith, John, assignor to J. G. Spengler, Dayton, Ohio. Door-check	359,223	Mar. 8	1150	299	38	1123
Merrell, Theodore, Dixon, Ill. Corn or cane harvester	371,087	Oct. 4	504	{ 126 127 102 }	{ 41 38 }	99
Merrell, William G., and C. W. Conklin, Auburn, N. Y. Steam-generator	357,019	Feb. 1	384	{ 103 104 }	{ 38 }	493
Merriam, Henry C., U. S. Army. Knapsack	362,302	May 3	320	88, 89	39	536
Merrick, Sarah J., San Antonio, Tex. Pen or pencil holder	361,535	Apr. 19	1624	421	39	319
Merrill, Albert H., Sanford, Fla. Note-book holder and line-indicator	358,814	Mar. 1	579	144	38	1011
Merrill, Alonzo B. (See Richards, Charles V., assignor.)						
Merrill, Anson P., Fall River, Mass. Wheel for velocipedes	355,700	Jan. 11	554	146	38	118
Merrill, Benjamin F., Boston, Mass., assignor, by mesne assignments, to Merrill Marine Berth Company. Self-leveling berth	356,658	Jan. 25	1948	{ 511 512 }	{ 38 }	395
Merrill, Charles F. (See Hazen and Merrill.)						
Merrill, Clarence E., Muskegon, Mich. Dust-collector	371,851	Oct. 18	1597	412	41	333
Merrill Company, E. H. (See Merrill, Henry E., assignor.)						
Merrill, Edwin C., Wheeling, W. Va. Gas pressure-regulator and cut-off	371,088	Oct. 4	506	127	41	100
Merrill, G. Lewis, Syracuse, N. Y. Apparatus for filling cans	361,177	Apr. 12	1141	288	39	216
Merrill, Henry D., Columbus, Ind. Flood-fence	371,346	Oct. 11	868	223	41	177
Merrill, Henry E., assignor to E. H. Merrill Company, Akron, Ohio. Press for earthenware vessels	368,956	Aug. 30	2334	621	40	931
Merrill, Jonathan G., Quincy, Mass. Fire-proof paper or board	363,905	May 31	2603	676	39	994
Merrill, Jonathan G., Quincy, assignor of one-half to M. Merrill, Boston, Mass. Fire-proof paper or board	367,424	Aug. 2	94	25	40	469
Merrill, John T., assignor of two-thirds to G. S. Allyn and J. O. Fry, Mount Ayr, Iowa. Balance-valve	356,148	Jan. 18	1231	326	38	251
Merrill, M. Augusta. (See Wilcox and Merrill.)						
Merrill Marine Berth Company. (See Merrill, Benjamin F., assignor.)						
Merrill, Marvin N. (See Chamberlain and Merrill.)						
Merrill, Moody. (See Merrill, Jonathan G., assignor.)						
Merrill, William E. T., Philadelphia, Pa. Bell toy	364,535	June 7	478	129	39	1177
Merriman, George E., Terryville, assignor, by mesne assignments, to P. & F. Corbin, New Britain, Conn. Lock	362,303	May 3	321	89	39	536
Merrington, Joseph, et al. (See Downer, William S., assignor.)						
Merritt & Allen. (See Merritt, Cassius M., assignor.)						
Merritt, Benjamin F., Newton, Mass. Employé's recorder	375,087	Dec. 20	1338	{ 349 350 }	{ 41 }	1322
Merritt, Cassius M., assignor to Merritt & Allen, Cedar Rapids, Iowa. Miter or bevel joint	372,695	Nov. 8	609	166	41	595
Merritt, Edward B., Hyde Park, Ill. Folding crate	363,077	May 17	1435	380	39	755
Merritt, George, et al. (See Bebb, George, assignor.)						
Merritt, Henry W., Somerville, assignor to W. H. Ireland, Boston, Mass. Compound for covering electric wires	366,336	July 12	806		40	159
Merritt, Henry W., Somerville, assignor to W. H. Ireland, Boston, Mass. Semi-elastic compound for covering electric wires, &c	366,337	July 12	806		40	160
Merritt, Henry W., Somerville, Mass., assignor to himself and Bayaud & Stevens, New York, N. Y. Plastic compound for walls	363,408	May 24	1877		39	850
Merritt, Worth, et al. (See Bebb, George, assignor.)						
Merron, Elizabeth E., Portland, Me. Bed-pan	355,881	Jan. 11	831	217	38	168
Merryman, Samuel W., Baltimore, Md. Incrustation preventive	356,776	Feb. 1	44		38	432
Mershon, Samuel D., Rahway, N. J. Oil-cup	373,995	Nov. 29	2572	691	41	989
Mersick, Charles S. (See Beecher, Thomas, assignor.)						
Mertsheimer, Frederick, assignor of one-half to G. W. Dickinsen, Evanston, Wyo. Ter. Automatic stop-block for locomotives	366,594	July 12	1158	311	40	229

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Merwin, Edward P. (See Bennett, Walter E., assignor.)						
Merwin, Edward P. (See Bennett and Merwin.)						
Merwin, Edward P., and W. E. Bennett, Boston, Mass. Button-attaching machine	369,069	Aug. 30	2496	{ 662 663 }	{ 40 40 }	962
Merwin, Harley N., I. A., and O., Iroquois, Dak. Ter. Tubular boiler	366,234	July 12	668	181	40	134
Merwin, Irving A. (See Merwin, Harley N., I. A., and O.)						
Merwin, Oliver. (See Merwin, Harley N., I. A., and O.)						
Merz, Henry J., Harper, Kans. Stove-pipe thimble	369,200	Aug. 30	2662	708	40	996
Meschini, Francisco, Gallarate, Italy Press	368,103	Aug. 9	1108	294	40	669
Meserole, Abraham V., New York, N. Y., assignor to River and Rail Electric Light Com- pany, of West Virginia. Preparing secondary-battery plates	359,876	Mar. 22	2168	.....	38	1332
Meserole, Abraham V., New York, N. Y., assignor to River and Rail Electric Light Com- pany, of West Virginia. Secondary battery	359,877	Mar. 22	2169	547	38	1332
Meserole, Abraham V., New York, N. Y., assignor to River and Rail Electric Light Com- pany, of West Virginia. Battery-cell	364,660	June 14	632	170	39	1215
Mesker & Bro. (See Mesker, Frank, assignor.)						
Mesker & Bro. (See Mesker and Edwards, assignors.)						
Mesker, Frank. (See Niehaus, Charles B., assignor.)						
Mesker, Frank, assignor to Mesker & Bro., St. Louis, Mo. Sheet-metal ceiling, wall, or panel	361,438	Apr. 19	1503	387	39	295
Mesker, Frank, and H. F. Edwards, assignors to Mesker & Bro., St. Louis, Mo. Sheet- metal column	371,089	Oct. 4	508	128	41	100
Messer, Amos H., Concord, N. H. Steam-engine	364,363	June 7	213	59	39	1129
Messer, Daniel F., Kennebunk, Me. Felt boot	357,153	Feb. 1	611	157	38	533
Messer, Daniel F., Kennebunk, Me., assignor to L. W. Chase, trustee, Haverhill, Mass. Lasting-jack	375,500	Dec. 27*	1889	494	41	1438
Messer, Louis, New York, N. Y. Frame for pocket-books and other articles	371,347	Oct. 11	869	223	41	177
Messer, Louis, New York, N. Y. Clasp	372,164	Oct. 25	2064	528	41	427
Messer, Louis, New York, N. Y. Frame for pocket-books, &c.	374,487	Dec. 6	455	118	41	1133
Messerle, William, assignor of one-half to J. Aute, Cincinnati, Ohio. Bushing-mold	359,735	Mar. 22	1932	490	38	1290
Messerschmitt, Casper, Rochester, N. Y. Child's crib	361,016	Apr. 12	899	227	39	171
Messick, Joseph, <i>et al.</i> (See Nulty, James T., assignor.)						
Messier, Luke, Schenectady, N. Y. Hauling railway cars	364,033	May 31	2799	725	39	1031
Messier, Luke, Schenectady, N. Y. Apparatus for unloading grain-boats	369,460	Sept. 6	206	58	40	1072
Messier, Luke, Albany, N. Y. Car-brake	369,461	Sept. 6	207	58	40	1072
Mestayer, Theresa V. (See Mestayer and Pincus, assignors.)						
Mestayer, William A., New York, N. Y., and H. Pincus, Philadelphia, Pa., assignors to T. V. Mestayer, New York, N. Y. Theatrical apparatus	361,893	Apr. 26	2163	561	39	426
Meston, Alexander W., St. Louis, Mo. Electric motor	367,651	Aug. 2	439	121	40	534
Meston, Alexander W., assignor of one-half to J. H. Clark, St. Louis, Mo. Regulator for electric motors	372,231	Oct. 25	2167	{ 556 557 }	{ 41 41 }	447
Metallic Cap Manufacturing Company. (See France, Joseph R., assignor.)						
Metcalf, George A., assignor of one-half to S. W. Wardwell, Jr., Woonsocket, R. I. Spin- ning-spindle and support therefor	373,841	Nov. 29	2354	632	41	947
Metcalf, Henry W., Worcester, Mass. Organ-coupler	362,645	May 10	827	226	39	634
Metcalf, Henry W., Worcester, Mass. Organ-action	362,646	May 10	828	226	39	634
Metcalf, Henry W., Worcester, Mass. Reed-organ	363,531	May 24	2074	{ 537 538 }	{ 39 39 }	888
Metcalf, John, <i>et al.</i> (See Glazier, George W., assignor.)						
Metcalf, John S., Burlington, Iowa. Grain-spout	358,052	Feb. 22	1900	502	38	798
Metcalf, William, Lake, Ill. Car-coupling	365,270	June 21	1549	404	39	1393
Metcalf, William H., <i>et al.</i> (See Shaw, Elijah, assignor.)						
Metz, Nathaniel, Lansdale, Pa. Instrument for removing worms from fowls' throats	371,614	Oct. 18	1240	323	41	260
Metz, Nathaniel, assignor, by mesne assignments, to W. D. Heebner, Lansdale, Pa. Steam- boiler	374,688	Dec. 13	737	193	41	1200
Metzger, C. F., <i>et al.</i> , executors. (See Armbruster, Frederick.)						
Metzger, Edward, Pittsburg, Pa. Covering for meats	367,425	Aug. 2	95	25	40	469
Metzger, Ferdinand, Port Chester, N. Y. Suspension device	362,304	May 3	323	89	39	536
Metzger, Henry, Pittsburg, Pa. Underground electric conductor	372,078	Oct. 25	1945	502	41	404
Metzger, Martin L., and A. Cooper, assignors to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Feed-cutter	364,946	June 14	1072	{ 279 280 }	{ 39 39 }	1295
Metzger, Percy, Washington, D. C. Canister	363,664	May 24	2264	587	39	924
Metzner, William C., Chicago, Ill. Stove-lid	358,938	Mar. 8	775	194	38	1052
Metzner, William C., Chicago, Ill. Stove-back	369,356	Sept. 6	70	20	40	1047
Meurling, Victor A. (See Nordenfelt and Meurling.)						
Meyenberg, John, Highland, Ill. Preserving milk	358,213	Feb. 22	2135	.....	38	842
Meyer, Andrew A., Boston, Mass. Ventilator	373,676	Nov. 22	2116	566	41	894
Meyer, August, assignor to J. F. Morrison, Baltimore, Md. Signal-box	355,548	Jan. 4	329	88	38	67
Meyer, Bendix, Gleiwitz, Prussia, Germany. Device for preventing the explosion of boilers. Meyer, Benjamin F. (See Knowlton and Meyer.)	370,641	Sept. 27	1936	513	40	1420
Meyer, Benjamin F., Camden, N. J., assignor to M. A. Furbush & Son Machine Company, of New Jersey. Let-off and take-up mechanism for looms	355,882	Jan. 11	832	218	38	169
Meyer, Charles E. C., and W. Illig, St. Louis, Mo. Branding apparatus	363,160	May 17	1551	409	39	778
Meyer, Cord, Jr., Maspeth, N. Y. Apparatus for the manufacture of ammonium sul- phate	367,426	Aug. 2	96	25	40	469
Meyer, Fred, J. Falcetti, and J. C. Harder, Belleville, Ill. Tension device for sewing-ma- chines	374,986	Dec. 20	1197	311	41	1295
Meyer, George F., assignor to De La Vergne Refrigerating Machine Company, New York, N. Y. Refrigeration by compression and expansion of gases	371,779	Oct. 18	1482	.....	41	310
Meyer, Henry F., Will, Ill. Potato-digger	368,482	Aug. 16	1658	442	40	784
Meyer, Herman H., Davenport, Iowa. Connecting-rod	364,536	June 7	479	129	39	1178
Meyer, John, Covington, Ky. Sheet-metal sign	369,955	Sept. 13	914	243	40	1215
Meyer-Sniffen Company. (See Bunting, William, Jr., assignor.)						
Meyer, Theodore, Hickory Grove, Iowa. Rotary-harrow attachment for wheeled cultiva- tors	370,803	Oct. 4	72	18	41	16
Meyer, William, Beaver Falls, Pa. Curtain-rack	356,288	Jan. 18	1419	375	38	287
Meyer, William C., South Vallejo, Cal. Cloth-cleaner	374,689	Dec. 13	739	194	41	1200
Meyers, Fredrick, Brooklyn, N. Y. Separable button	369,201	Aug. 30	2663	708	40	996
Meyrick, Joseph J., Louisville, Ky. Fire-engine heater-connection	358,873	Mar. 8	682	169	38	1034
Meyrose, Ferdinand. (See Stempel, Omar A., assignor.)						
Meyrose, Ferdinand, St. Louis, Mo. Lantern	363,161	May 17	1553	409	39	779
Meyrose, Ferdinand and F. H., and E. Schaefer, St. Louis, Mo. Lantern-holder and re- flector	372,553	Nov. 1	397	107	41	546

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Meyrose, Francis H. (See Meyrose and Schaefer.)						
Meyrowitz, Emil B., Ridgefield, N. J. Eyeglasses	368,226	Aug. 16	1303	344	40	713
Meyrowitz, Oscar W. (See Fasoldt, Ernest C., assignor.)						
Meysenburg, Otto W., St. Louis, Mo., assignor to Johnson Steel Street Rail Company, of Kentucky. Cast-iron brace-chair for street-railway rails.	357,532	Feb. 8	1141	299	38	643
Meyst, William, <i>et al.</i> (See Randall, Purdy M. and A., assignors.)						
Michael, Alfred, Hoboken, N. J., assignor to G. A. Goldsmith, New York, N. Y. Pencil	370,881	Oct. 4	192	50	41	38
Michael, Jacob C., Denver, Colo. Powder-divider	368,227	Aug. 16	1304	344	40	714
Michaelis, August H., Bucyrus, Ohio. Tooth or prong for horse hay-rakes	363,665	May 24	2265	587	39	924
Michaelis, Ernest R., Sycamore, Ohio. Halter	360,035	Mar. 29	2427	616	38	1387
Michaelis, Ernest R., Sycamore, Ohio. Cattle-tie	366,971	July 19	1666	448	40	332
Michaelis, Ernest R., Sycamore, Ohio. Halter-clip	366,972	July 19	1667	448	40	332
Michaels, Albert. (See Michales and Michaels.)						
Michaels, Albert. (See Sneathen, Michaels, and Michales.)						
Michales, Moses A. (See Sneathen, Michaels, and Michales.)						
Michales, Moses A., Allegheny, and A. Michaels, assignors of one-fourth to J. B. Sneathen, Pittsburg, Pa. Electrical pumping apparatus	358,053	Feb. 22	1902	503	38	799
Michels, Walter J., Stamford, Conn. Plastic composition for wall-hangings, &c.	355,776	Jan. 11	667	-----	38	139
Michelsen, Christen, Union Grove, Wis. Ditching-machine	374,690	Dec. 13	740	194	41	1201
Michelson, Sigismund M., assignor of one-half to G. Sylvester, Milwaukee, Wis. Trunk or furniture caster	374,420	Dec. 6	352	92	41	1113
Michigan Lubricator Company. (See Phelan, Richard M., assignor.)						
Michigan Stove Company. (See Keep, William J., assignor.)						
Mickey, Robert J., assignor of one-half to G. D. Arnold, Patterson, Pa. Train-order catcher.	365,314	June 21	1609	420	39	1403
Middlekauff, Frank G., Forrester, Ill. Sheaf-carrier	357,619	Feb. 15	1277	335	38	678
Middleton, Ethelbert H., Philadelphia, Pa. Paper-fastener	361,439	Apr. 19	1504	388	39	296
Middleton, William B., Lancaster, Pa. Welding steel	372,696	Nov. 8	609	-----	41	595
Midleton, Thomas. (See Brown and Midleton.)						
Midgley, Thomas. (See Emerson and Midgley.)						
Miehle, Robert, Chicago, Ill. Registering mechanism for printing-machines	363,409	May 24	1878	{ 493 494 495 }	{ 39 }	850
Miehle, Robert, Chicago, Ill. Tripping mechanism for cylinder printing-machines	365,931	July 5	250	66	40	49
Migeon, Achille F., Torrington, Conn. Toboggan	359,736	Mar. 22	1933	490	38	1290
Migeon, Achille F., Torrington, Conn. Cartridge-shell holder	366,338	July 12	807	217	40	160
Mignault, Eusebe, and G. A. Prichard, New York, N. Y. Ventilator	374,987	Dec. 20	1198	311	41	1296
Mignault, Eusebe, and G. A. Prichard, New York, N. Y. Convertible dust-pan	374,988	Dec. 20	1199	312	41	1296
Mihills, Anna L., Plattsburg, N. Y. Clothes-bar	373,843	Nov. 29	2356	633	41	947
Mihills, Uriah D., Fond du Lac, Wis. Label-cabinet	362,647	May 10	831	227	39	635
Mikesh, Charles J., and H. W. Conant, Sheldon, Iowa. Combined egg tester and register	367,542	Aug. 2	270	76, 77	40	503
Milburn, Charles F. (See Hughes, George M., assignor.)						
Milburn, John H., <i>et al.</i> (See Crowson, William L., assignor.)						
Milburn, Thomas H., <i>et al.</i> (See Crowson, William L., assignor.)						
Mileham, Joseph N., Jersey City, N. J., assignor of one-half to W. W. Snow, Ramapo, N. Y. Brake-shoe	357,284	Feb. 8	788	205	38	576
Miles, Alexander, Duluth, Minn. Elevator	371,207	Oct. 11	671	{ 171 172 }	{ 41 }	140
Miles, Benjamin J., and J. J. Jenkins, Girard, Ohio. Wheel-attaching device	360,714	Apr. 5	454	115	39	84
Miles Bros. & Co. (See Price and Sherman, assignors.)						
Miles, Jacob F., Philadelphia, Pa. Suspenders or braces	363,532	May 24	2076	538	39	888
Miles, Justin, <i>et al.</i> (See La Lone, Donald E., assignor.)						
Miles, Myron, Oxford, Mich. Cultivator	358,287	Feb. 22	2235	590	38	861
Miles, Patrick J., assignor to Bahmann & Hoehn, New York, N. Y. Clinical thermometer	358,214	Feb. 22	2136	563	38	842
Miles, W. Y. (See Egan, Charles E., assignor.)						
Miles, William A., Copake Iron Works, N. Y. Apparatus for molding in sand	358,982	Mar. 8	834	{ 210 211 }	{ 38 }	1063
Millar, Edward A., <i>et al.</i> (See Hughes, John F., assignor.)						
Millard, Samuel F., New York, N. Y. Plate-printing machine	359,513	Mar. 15	1576	{ 404 405 }	{ 38 }	1208
Miller, Aaron D., Union City, Ind. Device for operating window-shades	361,710	Apr. 26	1894	490	39	377
Miller, Abraham, Newark, assignor to Newark Machine Company, Columbus, Ohio. Machine-spreaders	359,737	Mar. 22	1934	{ 490 491 }	{ 38 }	1290
Miller, Abraham, Newark, assignor to Newark Machine Company, Columbus, Ohio. Machine-spreaders	366,675	July 19	1276	{ 340 341 }	{ 40 }	258
Miller, Abraham, Newark, assignor to Newark Machine Company, Columbus, Ohio. Traction-wheel	372,426	Nov. 1	212	59	41	510
Miller, Albert S., Slate, Ind. Wire-stretcher	359,168	Mar. 8	1069	278	38	1108
Miller, Alexander, New York, N. Y. Evaporating in closed vessels	372,079	Oct. 25	1947	502	41	404
Miller, Alexander, assignor of one-half to R. Deeley, New York, N. Y. Evaporating apparatus	357,404	Feb. 8	949	250	38	607
Miller, Alfred P. S., New York, N. Y. Torpedo-boat	364,364	June 7	214	59, 60	39	1129
Miller, Andrew J., near Abingdon, Va. Car-coupling	364,431	June 7	314	86	39	1148
Miller, Archibald. (See Hannigan and Miller.)						
Miller, August H., Cleveland, Ohio. Metallic monument	364,661	June 14	634	170	39	1216
Miller, Bion H., Bay City, Mich. Saw-swaging machine	370,367	Sept. 20	1519	{ 406 407 }	{ 40 }	1336
Miller, Charles, Muskegon, Mich. Uniting the ends of band-saws	361,536	Apr. 19	1625	421	39	320
Miller, Charles, Auburn, N. Y. Harvester	364,127	May 31	2926	{ 760 761 }	{ 39 }	1056
Miller, Charles B., Ithaca, N. Y. Money-drawer and cash-account recorder	360,456	Apr. 5	87	22	39	17
Miller, Charles E., Scranton, assignor to himself and E. J. MacDonald, Moosic, Pa. Pillar-step	355,701	Jan. 11	555	146	38	119
Miller, Charles H., Minneapolis, Minn. Street-indicator for cars	358,467	Mar. 1	63	16	38	915
Miller, Charles H., Erie, Pa. Combined gas and coal burning grate	362,648	May 10	832	227	39	635
Miller, Charles H., Erie, Pa. Combined door catch and door-opening device	363,666	May 24	2266	588	39	925
Miller, Charles W., assignor of one-half to Lechner Manufacturing Company, Columbus, Ohio. Drive-chain	355,549	Jan. 4	331	88	38	67
Miller & Co., Edward. (See Maschmeyer, Charles, assignor.)						
Miller & Co., Edward. (See Rhind, Frank, assignor.)						
Miller & Company, Edward. (See Hornberger and Cooper, assignors.)						
Miller & Company, Edward. (See Rhind, Frank, assignor.)						
Miller Company, William P. (See Miller, William P., assignor.)						
Miller, David G., Cleveland, Ohio. Hame-fastener	367,652	Aug. 2	440	122	40	535

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Miller, Edward I., New York, N. Y., assignor of three-fourths to C. W. Schwartz, A. Graff, A. Ross, F. G. Rogers, and H. P. Schwartz, Philadelphia, Pa. Manufacture of whisk-brooms	374,902	Dec. 13	1051	275	41	1261
Miller, Edward L., and F. Berg, Chicago, Ill. Miter-clamp	374,264	Dec. 6	128	33	41	1071
Miller, Francis A., Home City, Ohio. Rain-water cut-off and strainer	371,697	Oct. 18	1367	354	41	285
Miller, Frank, New York, N. Y. Drawing-instrument, calipers, &c	371,469	Oct. 11	1035	270	41	210
Miller, Frank A. (See Wilmarth, Fred. H., assignor.)						
Miller, Fred. J., Springfield, Ohio. Transit-instrument	360,321	Mar. 29	2870	{ 730 731 }	{ 38 41 }	1469
Miller, Frederick J., Brooklyn, N. Y. Weather-warning indicator	373,299	Nov. 15	1543	407	41	772
Miller, Fredrick C., Newport, Ky. Cigar-mold	364,183	May 31	3009	781	39	1071
Miller, George A. (See Hawkins, Randall, assignor.)						
Miller, George M., York, Pa. Washing-machine	364,723	June 14	726	193	39	1233
Miller, George W., Woonsocket, R. I. Machine for pressing fabrics	361,773	Apr. 26	1982	517	39	392
Miller, George W., Woonsocket, R. I. Belt-shifter	370,153	Sept. 20	1219	323	40	1279
Miller, George W., Kalamazoo, Mich. Car-wheel	363,838	May 31	2518	654	39	978
Miller, George W., Kalamazoo, Mich. Car-wheel	363,839	May 31	2519	654	39	979
Miller, George W., Kalamazoo, Mich. Die for shaping car-wheel rims	373,084	Nov. 15	1214	324	41	713
Miller, George W., Meriden, Conn. Pocket-knife	365,086	June 21	1283	339	39	1343
Miller, George W., Meriden, Conn. Pocket-knife	372,321	Nov. 1	55	16	41	481
Miller, Henry J., Goshen, N. Y. Road-cart	371,090	Oct. 4	509	128	41	100
Miller, Herman, New York, N. Y. Sheet-metal can	368,348	Aug. 16	1462	390	40	746
Miller, Ichabod H., Quincy, Ill. Station or street indicator	363,162	May 17	1554	409	39	779
Miller, Ira M., Akron, Ohio. Advertising-card	359,878	Mar. 22	2172	547	38	1332
Miller, Isaac, assignor of one-half to H. B. Fairbanks, Manchester, N. H. Pegging-jack	363,906	May 31	2604	677	39	994
Miller, Isaac N., Boston, Mass. Sofa or lounge bed	365,619	June 28	2079	542	39	1507
Miller, Jacob, Canton, Ohio. Sheaf-carrier for harvesters and binders	366,595	July 12	1159	311	40	229
Miller, Jacob D., York, Pa. Car-coupling	358,561	Mar. 1	226	52	38	945
Miller, James, Adelaide, South Australia. Adjustable bed for invalids	359,879	Mar. 22	2173	548	38	1332
Miller, James B., Kent, Ohio. Button-setting machine	355,832	Jan. 11	748	{ 196 197 198 }	{ 38 39 40 }	153
Miller, James P., assignor of two-thirds to W. H. Guild and J. H. Peacock, Boston, Mass. Sofa and bed lounge	361,639	Apr. 19	1784	462	39	350
Miller, James W. (See Irons, Joseph F., assignor.)						
Miller, Jarvis L. (See Walker and Miller.)						
Miller, John D., Anacostia, assignor of two-thirds to J. H. Mitchell and N. Bunch, Washington, D. C. Whiffletree	362,769	May 10	1011	274	39	668
Miller, John E. (See Heisey and Miller.)						
Miller, John F. (See Turner, James J., assignor.)						
Miller, John R., et al. (See Brown, Jacob S., assignor.)						
Miller, John R., Reading, Pa. Hat	358,215	Feb. 22	2137	564	38	842
Miller, John W., Burlington, Iowa. Machine for cleaning wheat	366,235	July 12	669	181	40	134
Miller, Lebbeus B., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Machine for swaging needle-blanks	364,274	June 7	98	28	39	1108
Miller, Lemuel D. and P. W., Collamer, Pa. Measuring lift-pump	357,285	Feb. 8	789	205	38	576
Miller, Lemuel D. and P. W., Callamer, Pa. Measuring-pump	358,162	Feb. 22	2062	543	38	827
Miller, Lemuel D. and P. W., Collamer, Pa. Measuring lift-pump	363,840	May 31	2520	{ 654 655 }	{ 39 40 }	979
Miller, Leonard H., and F. Schillinger, Toledo, Ohio. Combined wood and asphalt and concrete walk	356,004	Jan. 11	1013	266	38	205
Miller, Lewis. (See Hays, Joseph M., assignor.)						
Miller, Lewis, Akron, Ohio. Grain-binding harvester	361,964	Apr. 26	2271	591	39	445
Miller, Lewis, Akron, Ohio. Grain-binding harvester	371,698	Oct. 18	1369	354	41	286
Miller, Lewis, Philadelphia, Pa. Cotton-press	367,220	July 26	2022	544	40	407
Miller, Lewis, Philadelphia, Pa. Cotton-press	367,221	July 26	2024	{ 544 545 }	{ 40 41 }	407
Miller, Lewis, Philadelphia, Pa. Cotton-press	367,310	July 26	2154	580	40	430
Miller, Lewis, and A. E. Ellinwood, Akron, Ohio. Grain-binder	359,271	Mar. 15	1214	317	38	1142
Miller, Lewis, and A. E. Ellinwood, Akron, Ohio; said Ellinwood assignor to said Miller. Grain-binding harvester	364,275	June 7	99	29	39	1108
Miller, Louis C. H., Louisville, Ky. Convertible bedstead	367,222	July 26	2025	545	40	407
Miller, Luther L. (See Shoudy and Miller.)						
Miller, Lyman A., Carbondale, Ill. Dust-conveyer for thrashers	364,184	May 31	3011	781	39	1072
Miller, Marcus A., assignor of two-thirds to E. B. Glen and M. W. Scott, Binghamton, N. Y. Wall-desk	357,533	Feb. 8	1442	299	38	613
Miller, Martin L. (See Bergman and Miller.)						
Miller, Nelson W., and G. C. Maughmer, Wawpecong, Ind. Suspensory bandage	357,494	Feb. 8	1077	284	38	631
Miller, Ora M., Greensburg, Ind. Extensible seat	371,091	Oct. 4	510	129	41	101
Miller, Peter. (See Porter and Miller.)						
Miller, Peter A., and J. P. Luyster, New York, N. Y. Snow hoisting and melting device	368,412	Aug. 16	1554	414	40	764
Miller, Philip W. (See Miller, Lemuel D. and P. W.)						
Miller Range and Furnace Company, William. (See Brokate, Charles, assignor.)						
Miller, Richard, Janesville, Wis. Fire-kindler	359,272	Mar. 15	1216	317	38	1142
Miller, Richard, and J. G. Kanouse, assignors of one-third to W. Polifka, Appleton, Wis. Door-hanger	356,075	Jan. 11	1115	295	38	224
Miller, Robert J. (See Roberts, Robert J., assignor.)						
Miller, Robert W. (See McConnell and Miller.)						
Miller, Rosa. (See Zschech, Gustavus H., assignor.)						
Miller, Samuel J., Minneapolis, Minn. Carpet-cleaning reel	356,951	Feb. 1	285	79	38	474
Miller, Solomon R., Mount Union, Pa. Securing pictures to tombstones	373,243	Nov. 15	1463	385	41	757
Miller, Theodore F., Gillespie, Ill. Corn-planter	370,804	Oct. 4	73	19	41	16
Miller, Thomas, Jersey City, N. J. Car brake and starter	359,880	Mar. 22	2175	548	38	1333
Miller, Thomas S., The Grove, Tex. Spoke-socket for vehicle-wheels	360,812	Apr. 5	585	153	39	110
Miller, Walker C., Wortham, Tex. Slicing-machine	360,715	Apr. 5	455	116	39	84
Miller, Walsingham A., et al. (See Barnes, Wesley W., assignor.)						
Miller, Wesley, Blanchard, Iowa. Animal-catching device	374,488	Dec. 6	456	118	41	1133
Miller, William, Woonsocket, R. I. Shaft-coupling	364,537	June 7	480	129	39	1178
Miller, William D., Mermill, Ohio. Hay-rack	370,743	Sept. 27	2092	555	40	1449
Miller, William E., et al. (See Brown, Jacob S., assignor.)						
Miller, William F., et al. (See Chambers, Joseph H., assignor.)						
Miller, William H. (See Burnham and Miller.)						
Miller, William L., Van Buren, Ind. Broadcast seed-sower	367,830	Aug. 9	723	194	40	596
Miller, William P., assignor to W. P. Miller Company, Brooklyn, N. Y. Lubricator	367,311	July 26	2156	580	40	430

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Miller, William R., Polo, Ill. Check-hook.....	364,276	June 7	102	29	39	1108
Miller, William T. (See Lindström and Miller.)						
Miller's Falls Company. (See Goodell, Albert D., assignor.)						
Millet, Camille A. (See Millochau and Chailly, assignors.)						
Millett, Eli, Springfield, Mass. Core-oven.....	366,733	July 19	1357	363	40	273
Millhauser, Moses, New York, N. Y. Automatic switch.....	366,786	July 19	1428	382	40	286
Millhiser & Co., M. (See Cussen, William J., assignor.)						
Millice, George R. (See Newby, Albert S., assignor.)						
Milligan, Elizabeth R., executrix. (See Milligan, James.)						
Milligan, James, deceased, Brooklyn, N. Y.; E. R. Milligan executrix. Plate-printing machine.....	360,716	Apr. 5	456	116	39	85
Milligan, John H., Carthage, Ill. Gate.....	369,021	Aug. 30	2420	642	40	947
Milligan, Patrick F., Washington, D. C. Street-car.....	356,489	Jan. 25	1712	447	38	350
Milliken, Harris T., et al. (See Neal, Andrew J., assignor.)						
Milliken, William H., San Francisco, Cal. Dredging-machine.....	358,686	Mar. 1	396	95, 96	38	977
Milliken, William T., Cheney, Wash. Ter. Bag-lock.....	369,730	Sept. 13	574	156	40	1153
Milliken, William T., Cheney, Wash. Ter. Brake-block attachment.....	372,554	Nov. 1	398	107	41	546
Millington, Harry P., assignor to Guide Manufacturing Company, Rochester, N. Y. Device for operating street-railway switches.....	362,770	May 10	1012	275	39	668
Millochau, Adolphe, and F. Chailly, assignors to C. A. Millet, Paris, France. Tanning.....	375,455	Dec. 27	1832	479	41	1427
Mills Air-Switch and Signal Company. (See Mills, Mortimer B., assignor.)						
Mills, Anson, U. S. Army. Type-writing machine.....	375,178	Dec. 20	1466	383	41	1347
Mills, Charles A. (See Chase, Fred. C., assignor.)						
Mills, Clarence L. (See Duncan and Mills.)						
Mills, Edgar C., Manchester, county of Lancaster, England. Machine for marking courts or lines for lawn-tennis.....	365,532	June 28	1951	508	39	1483
Mills, Frederick, Heywood, county of Lancaster, assignor to J. Bullough, Accrington, England. Machine for carding cotton, &c.....	372,038	Oct. 25	1879	485	41	393
Mills, George W. (See Jordan, Mills, and Jordan.)						
Mills, George W., Elizabeth, N. J., assignor to F. R. Fast and F. B. Wilson, New York, N. Y. Metal-button-cleaning shield.....	367,676	July 19	1279	341	40	259
Mills, James. (See Trahan, Godfroy, assignor.)						
Mills, Marvin, Fairmount, Mo. Wagon-bed.....	374,876	Dec. 13	1010	264	41	1252
Mills, Mortimer B., Chicago, Ill. Safety-gate for railway-crossings.....	356,325	Jan. 18	1474	388	38	207
Mills, Mortimer B., Chicago, Ill. Gate-lock.....	357,779	Feb. 15	1531	399	38	723
Mills, Mortimer B., assignor to Railroad Switch Signal and Gate Company, Chicago, Ill. Gate.....	359,398	Mar. 15	1405	360	38	1176
Mills, Mortimer B., assignor to Mills Air-Switch and Signal Company, Chicago, Ill. Rail-way-switch.....	370,642	Sept. 27	1937	{ 513 514 }	{ 40 40 }	{ 1421 1421 }
Mills, Mortimer B., assignor to Mills Railroad Gate Company, Chicago, Ill. Gate.....	370,643	Sept. 27	1940	514	40	1421
Mills Railroad Gate Company. (See Mills, Mortimer B., assignor.)						
Mills, Thomas B., Brooklyn, N. Y. Artificial fly.....	361,965	Apr. 26	2273	591	39	445
Mills, William S., Naugatuck, Conn. Button-hole sewing-machine.....	362,771	May 10	1013	{ 275 276 }	{ 39 39 }	{ 669 669 }
Millsbaugh, William. (See Clemson and Millsbaugh.)						
Millsbaugh, William, Middletown, N. Y. Tool-handle.....	366,859	July 19	1527	409	40	305
Milne, James T., et al. (See Littlefield, Charles A., assignor.)						
Milnes, William B. (See McCollum, Milnes and Hartman.)						
Milroy, Peter, Jerauld County, Dak. Ter. Railway-signal.....	371,147	Oct. 4	588	151	41	116
Miltenberger, Thomas, Bellefontaine, Ohio. Revolving hay-rake.....	365,014	June 14	1167	306	39	1312
Miltimore, Chancy K., Janesville, Wis. Bridle.....	375,179	Dec. 20	1468	384	41	1347
Milwaukee Harvester Company. (See Bullock, Joseph P., assignor.)						
Milwaukee Harvester Company. (See Crandall, Henry F., assignor.)						
Milwaukee Harvester Company. (See Martincourt, Charles, assignor.)						
Minard, Cornelius J., Maquon, Ill. Earth scraper or leveler.....	370,077	Sept. 20	1105	293	40	1257
Minck, Friedrich W. (See Tentschert, Florian, assignor.)						
Minor, Abraham L. (See Moore and Minor.)						
Minor, Henry M., Philadelphia, assignor to Granite Roofing Company, Pittsburg, Pa. Process of and apparatus for manufacturing roofing material.....	373,085	Nov. 15	1215	{ 324 325 }	{ 41 41 }	{ 713 713 }
Minor, Leman C., Jr., Brooklyn, N. Y. Cigar-perforator.....	361,071	Apr. 12	972	246	39	185
Minor, William W., assignor to New Haven Nail Company, New Haven, Conn. Machine for finishing horseshoe-nails.....	373,996	Nov. 29	2573	{ 691 692 }	{ 41 41 }	{ 989 989 }
Minetto Shade Cloth Company. (See Benjamin, Edwin P., assignor.)						
Minges, Adam G., assignor of one-third to J. H. Zwarts, St. Louis, Mo. Stock-car.....	363,163	May 17	1555	410	39	779
Mingle, William J., Lancaster, Pa. Water-motor.....	357,220	Feb. 8	703	181	38	560
Minium, Benjamin W., Mazeppa, Pa. Box-fastening.....	365,401	June 28	1754	454	39	1444
Minneapolis Harvester Works. (See Appleby, John F., assignor.)						
Minneapolis Harvester Works. (See Kennedy and Anderson, assignors.)						
Minnich, Peter C., assignor of one-half to W. Dole, Waldo, Fla. Cultivator-tooth.....	367,112	July 26	1862	503	40	376
Minnich, Simon B., Landisville, Pa. Press.....	366,339	July 12	807	217	40	160
Minnick, Alfred, assignor of one-half to H. C. Smith, Falls City, Nebr. Self-tallying pool-rack.....	358,782	Mar. 1	531	129	38	1002
Minnick, James A., Elwood, Ind. Fence-machine.....	358,054	Feb. 22	1903	503	38	799
Minnick, Maggie E., Galveston, Tex. Washing-fluid.....	359,090	Mar. 8	972	.....	38	1089
Minnock, Edmund J., Baker, Tex. Standard for logging-cars.....	367,427	Aug. 2	97	26	40	469
Minor, George W., W. T., and J. W., Emporia, Kans. Colter.....	356,490	Jan. 25	1713	447	38	350
Minor, James W. (See Minor, George W., W. T., and J. W.)						
Minor, William T. (See Minor, George W., W. T., and J. W.)						
Minor, William T. (See Twist, Charles H., assignor.)						
Minot, William, Jr. (See Thayer, William H., assignor.)						
Minot, William, Jr. (See Thayer, William H., assignor.) (Reissue.)						
Minster, Jacob J., Athens, Ga. Eyeglass or spectacle frame.....	369,544	Sept. 6	315	87	40	1094
Misell, David, New York, N. Y. Electric battery.....	362,584	May 10	725	201	39	616
Misener, William D., assignor of one-half to M. E. Cummins, Waterdown, Ontario, Canada. Wheel for vehicles.....	374,156	Nov. 29	2801	752	41	1033
Mish, Phenes, San Francisco, Cal. Cigar-tip protector.....	359,358	Mar. 15	1340	346	38	1165
Mitchell, Adin W., Dalton, Ohio. Carriage-curtain fastener.....	355,702	Jan. 11	556	146	38	119
Mitchell, Adolph C., Cleveland, Ohio. Mechanism for operating and regulating the feed-movements of sewing-machines.....	370,805	Oct. 4	74	19	41	17
Mitchell, Albert E., Cleveland, Ohio, assignor to Wilkins Locomotive Car Coupler Company, Kittery, Me. Car-coupling.....	374,989	Dec. 20	1201	{ 312 313 }	{ 41 41 }	{ 1296 1296 }
Mitchell, Albion L. F., Lynn, Mass. Heel-trimming machine.....	363,410	May 24	1883	{ 495 496 }	{ 39 39 }	{ 851 851 }
Mitchell, Albion L. F., Lynn, Mass. Heel-mold.....	374,368	Dec. 6	285	76	41	1100

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Mitchell, Barnard W., Hubbard, and E. Rosser, Brookfield, Ohio. Churn.....	359,881	Mar. 22	2176	548	38	1333
Mitchell, Charles E., Bangor, Me. Machine for baling sawdust.....	370,488	Sept. 27	1708	453	40	1378
Mitchell, Daniel. (See Thummel and Mitchell.)						
Mitchell, David, assignor of two-thirds to G. J. Markley, Minerva, Ohio. Table.....	359,457	Mar. 15	1486	380	38	1192
Mitchell, E. E. (See Folsome, Charles F., assignor.)						
Mitchell, Edward P. (See Arnold, Mitchell, and Taliaferro.)						
Mitchell, Frederick J., assignor to A. L. Cohn, New York, N. Y. Atomizer.....	371,615	Oct. 18	1241	323	41	260
Mitchell, Frederick J., and O. B. Warren, New York, N. Y. Apparatus for supplying hydrocarbon and other liquids for lighting, &c.....	369,870	Sept. 13	782	208	40	1191
Mitchell, Harris B. (See Corey and Mitchell.)						
Mitchell, Henry R. (See Dietzman and Cressey, assignors.)						
Mitchell, Henry R., Philadelphia, Pa., and J. E. Jenckes, Pawtucket, R. I. Thread-guide for spinning-machines, &c.....	360,969	Apr. 12	826	211	39	158
Mitchell, J. Henry, Philadelphia, Pa. Machine for sheeting dough.....	359,273	Mar. 15	1217	318	38	1143
Mitchell, James A., Westminster, Md. Hedge.....	358,815	Mar. 1	581	144	38	1011
Mitchell, James A., and W. B. Thomas, Westminster, Md. Bag-fastener.....	362,772	May 10	1017	276	39	669
Mitchell, James B., New York, N. Y. Fountain-pen.....	373,677	Nov. 22	2117	566	41	894
Mitchell, James C. (See Atwood, James M. and J. K., assignors.)						
Mitchell, James C. (See Titus, Herman P., assignor.)						
Mitchell, James C., Lancaster, N. H. Car starter and brake.....	356,491	Jan. 25	1714	448	38	350
Mitchell, John B., Portland, Me. Label-holder.....	362,849	May 10	1107	300	39	686
Mitchell, John D., Savona, N. Y. Bedclothes-fastener.....	361,440	Apr. 19	1505	388	39	296
Mitchell, John H. (See Beasley, Joseph, assignor.)						
Mitchell, John H., et al. (See Miller, John D., assignor.)						
Mitchell, John R., et al. (See Morris, Samuel C., assignor.)						
Mitchell, John W., Bayonne, N. J. Process of and apparatus for producing and consuming gaseous fuel.....	373,468	Nov. 22	1800	479	41	833
Mitchell, Jonas L., Logan, Ohio. Rotary valve.....	365,315	June 21	1611	420	39	1403
Mitchell, Jonas L., Logan, Ohio. Automatic gripping-clutch.....	375,180	Dec. 20	1469	384	41	1347
Mitchell, Joseph, Montague, Tex. Bridge.....	368,483	Aug. 16	1660	443	40	784
Mitchell, Joseph R., and F. X. Fischer, Oakland, Cal. Portable steam-boiler.....	364,839	June 14	920	244	39	1267
Mitchell, Marcus L., St. Louis, Mo., assignor to De La Vergne Refrigerating Machine Company, New York, N. Y. Buffer for gas-compressor valves.....	356,597	Jan. 25	1856	489	38	378
Mitchell, Noah, Newark, N. J. Button.....	370,489	Sept. 27	1709	453	40	1378
Mitchell, Oliver F., assignor of two-thirds to T. B. Galligher and W. H. Swinehart, Merrill, Wis. Curtain-fixture.....	356,369	Jan. 18	1535	403	38	308
Mitchell, Otis M., Marathon, N. Y. Combined blackboard and writing-desk.....	366,596	July 12	1161	312	40	230
Mitchell, Robert, Avondale, Ohio. Chair-bottom.....	357,405	Feb. 8	953	251	38	607
Mitchell, Rufus S., Beardstown, Ill. Pitman.....	358,364	Feb. 22	2335	620	38	880
Mitchell, Susan L. (See Lowery, Woodbury, assignor.)						
Mitchell, Thomas, Brooklyn, N. Y. Buckle.....	368,299	Aug. 16	1405	371	40	734
Mitchell, William H., Horse Cave, Ky. Clearing attachment for grain-drills.....	360,322	Mar. 29	2871	731	38	1469
Mitchell, William H., Horse Cave, Ky. Combination-tool.....	372,080	Oct. 25	1950	502	41	405
Mitchell, William S. (See Fuller, Lloyd B., assignor.)						
Mitter, Martin G., Berlin, Germany. Window blind or shade.....	362,524	May 10	639	180	39	602
Mitzel, Philip M. (See Mitzel, Walter L. and P. M.)						
Mitzel, Walter L. and P. M., Felton, Pa. Horse-detacher.....	360,717	Apr. 5	459	116	39	85
Mix, Frank W., New Britain, Conn. Trunk or box fastener.....	355,333	Jan. 4	56	15	38	12
Mix, Frank W., New Britain, Conn. Mortise-lock.....	360,611	Apr. 5	315	77	39	60
Mix, Frank W., New Britain, Conn. Padlock.....	361,072	Apr. 12	973	246	39	185
Mix, Frank W., New Britain, Conn. Trunk or box hinge.....	362,305	May 3	324	89	39	537
Mix, Frank W., New Britain, Conn. Hasp-lock.....	362,986	May 17	1308	347	39	730
Mix, Frank W., New Britain, Conn. Trunk-lid lifter and cup or hasp plate for trunk-locks.....	365,533	June 28	1952	508	39	1483
Mix, Frank W., New Britain, Conn. Hasp-lock.....	365,534	June 28	1953	508	39	1484
Mix, Frank W., assignor to P. & F. Corbin, New Britain, Conn. Sash-fastener.....	359,274	Mar. 15	1219	318	38	1143
Mix, Newell P., Avenue, and C. F. Marvin, Columbus, Ohio; said Marvin assignor to said Mix. Machine for sharpening circular saws.....	364,185	May 31	3012	781 782 783	39	1072
Mixer, Frank, Bradford, Pa. Tubing-catcher.....	370,744	Sept. 27	2093	555	40	1449
Moats, Andrew T., assignor of one-half to J. R. Cline, Pleasantville, Iowa. Pick.....	356,412	Jan. 18	1593	419	38	319
Moats, George and O. E., Guss, Iowa. Road-grader.....	370,806	Oct. 4	75	19, 20	41	17
Moats, Harlan G., Guss, assignor of one-half to W. Beckwith, Mount Pleasant, Iowa. Road-grader.....	363,342	May 17	1793	470	39	825
Moats, Ortus E. (See Moats, George and O. E.)						
Moberg, Petter V., Marinette, Wis. Siding-gage.....	370,019	Sept. 13	1021	269	40	1234
Moch, Eugene W., New York, N. Y. Feather-tip pin.....	375,374	Dec. 27	1728	453	41	1406
Moche, Jules, Paris, France. Ornamental metal fabric.....	360,457	Apr. 5	88	23	39	18
Model Sewing Machine Company. (See Post, John W., assignor.)						
Modes, William F., Streator, Ill. Mold for blowing turned bottles.....	364,840	June 14	922	244	39	1268
Modini, John, Washington, D. C. Exhibiting device.....	356,005	Jan. 11	1014	266	38	205
Moebs, George. (See Newhoff, William F., assignor.)						
Moeckel, Ernst. (See Moser and Moeckel.)						
Moegling, Christopher, Washington, D. C. Manufacture of shell jewelry.....	369,649	Sept. 6	468	131	40	1124
Moes, Nicolas, Redingen-upon-Atttert, Luxemburg. Device for cooling milk and separating cream.....	370,205	Sept. 20	1293	344 345	40	1293
Moews, Paul, New Castle, N. Y. Spectacle-joint.....	361,831	Apr. 26	2068	538	39	408
Moffat, George D., assignor to T. Kane, Chicago, Ill. Candy and manufacturing the same.....	356,394	Jan. 18	1571	413	38	315
Moffat, George D., assignor to T. Kane, Chicago, Ill. Candy and manufacturing the same. (Reissue).....	10,822	Mar. 29	2990	758	38	1488
Moffet, Elliott R., Jr., and O. R., Joplin, Mo. Attachment for smelting-furnaces.....	359,882	Mar. 22	2177	549	38	1333
Moffet, John, New York, N. Y. Portable drilling-machine.....	369,120	Aug. 30	2567	682	40	976
Moffet, Oliver R. (See Moffet, Elliott R., Jr., and O. R.)						
Moffit, Jerry, Southbridge, Mass. Micrometer-gage.....	369,357	Sept. 6	71	20	40	1047
Mogridge, William, and W. Giberson, Brampton, Ontario, Canada. Thrashing-machine.....	365,620	June 28	2080	542 543	39	1507
Moh, Oswald. (See Koppe and Moh.)						
Mohlberg, John, New York, N. Y. Bottom bar for shades.....	372,039	Oct. 25	1880	485	41	393
Moline Plow Company. (See Bartlett, John W., assignor.)						
Moline Plow Company. (See Lindgren, August, assignor.)						
Moline Plow Company. (See Waterman, Lewis E., assignor.)						
Mollenkamp, Fredrick. (See Schumpe and Mollenkamp.)						
Molloy, Bernard C., London, England. Apparatus for amalgamating gold.....	363,411	May 24	1885	496	39	851
Molloy, Bernard C., London, England. Apparatus for amalgamating gold.....	363,412	May 24	1888	496 497	39	851

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Molloy, James F., West Haven, Conn. Clasp for suspenders	364,365	June 7	215	60	39	1129
Molony, James J., Covington, Ky. Can-opener	362,389	May 3	443	123	39	561
Molyneux, Barton S., Minneapolis, Minn. Knockdown table	355,618	Jan. 4	420	115	38	83
Molyneux, Barton S., assignor of one-half to A. Humphreys, Minneapolis, Minn. Voting and recording apparatus for legislative bodies	369,608	Sept. 6	408	114	40	1113
Momentum Car Brake Company. (See Hubbard, Moses G., assignor.)						
Monahan, James J., Fort Supply, Indian Ter. Bottle-holding attachment for stopper-pullers	361,640	Apr. 19	1785	462	39	350
Monarch, John W., assignor of one-half to A. Mathis, Des Moines, Iowa. Equalizer for horse-powers	362,585	May 10	726	202	39	616
Monce, Samuel G., Bristol, Conn. Fishing-rod	372,165	Oct. 25	2065	528	41	427
Monce, Samuel G., Bristol, Conn. Compartment-case for interchangeable lock-stencils	373,086	Nov. 15	1217	325	41	714
Moncur, John. (See Ford and Moncur.)						
Moncuse, Elie, Mamaroneck, N. Y. Cover or lid	367,653	Aug. 2	442	122	40	535
Monfort, Edgar A., assignor, by mesne assignments, to Universal Electric Arms and Ammunition Company, New York, N. Y. Electric cartridge	365,842	July 5	114	32	40	24
Monfort, Edgar A., assignor, by mesne assignments, to Universal Electric Arms and Ammunition Company, New York, N. Y. Electrical breech-loading fire-arm	365,843	July 5	115	32	40	24
Mongar, Ray, Trenton, N. J. Bustle and making the same	356,659	Jan. 25	1953	512	38	396
Monier, Fredrick, Newark, N. J. Bridle-bit	357,683	Feb. 15	1379	362	38	696
Monighan, John, assignor of one-half to E. A. Thomas, Chicago, Ill. Hoisting apparatus	370,078	Sept. 20	1106	{ 293 294 }	{ 40 }	1258
Monitor Works. (See Hill, Christian C., assignor.)						
Monnier, Demeter, <i>et al.</i> (See Bollmann, Louis, assignor.)						
Monnin, Alpheus C., and P. Filliez, Canton, Ohio. Bicycle	361,310	Apr. 19	1331	342	39	264
Monroe, David M. (See Zerbe, James S., assignor.)						
Monroe, David M., Baltimore, Md. Can-testing machine	358,562	Mar. 1	227	52, 53	38	946
Monroe, Daniel L., and S. F. Stoke, Bloomfield, Iowa. Fountain auger-power and tile-injector	369,545	Sept. 6	317	87	40	1094
Monroe, Edwin P., Philadelphia, Pa. Supporting mechanism for valve-stems	369,358	Sept. 6	72	{ 20 21 22 23 }	{ 40 }	1048
Montague, Alford L., Dunkirk, N. Y. Washing-machine	361,311	Apr. 19	1332	342	39	264
Montague, Charles C., Augusta, Ark., assignor of one-half to J. Horne, St. Louis, Mo. Railway-switch	371,470	Oct. 11	1036	270	41	210
Montague, Francis D., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Apparatus for distributing oil on the surface of the sea	364,538	June 7	481	130	39	1178
Montague, Thomas E., West Lorne, Ontario, Canada. Machine for bending carriage-thills	356,952	Feb. 1	285	79, 80	38	474
Montanus, Georg, Frankfort-on-the-Main, Germany. Resistance-regulator for electric currents	372,860	Nov. 8	876	234	41	641
Montanye, Isaac V., Rockford, Ill. Washing-machine	369,609	Sept. 6	410	115	40	1113
Monteverde, Florencio E., San Francisco, assignor to L. C. Brayton, Oakland, Cal. Concentrating-machine	373,026	Nov. 8	1130	302	41	686
Montgomery, Alexander, Newton, Mass. Elastic core-packing	375,501	Dec. 27	1890	494	41	1438
Montgomery, Charles F. (See McCormick, John, assignor.)						
Montgomery, James, Wausau, Wis. Wood-burning furnace	368,895	Aug. 23	2238	595	40	904
Montgomery, James, Munster, Ill. Seeder and cultivator	370,206	Sept. 20	1294	345	40	1293
Montgomery, Robert B., Montour, Iowa. Stump-extractor	356,693	Jan. 25	1991	523	38	403
Montgomery, Robert J., Brooklyn, N. Y. Combined parlor and sleeping car	370,882	Oct. 4	193	51, 52	41	38
Montis, Elizabeth, <i>et al.</i> (See Dickenson, Charles, assignor.)						
Monto, Joseph, Chelsea, Mass. Machinery for tinning or retinning pans	372,555	Nov. 1	398	{ 107 108 }	{ 41 }	547
Montross, Levi H., assignor of one-half to D. J. McCurdy, Toronto, Ontario, Canada. Metallic roofing	373,373	Nov. 15	1662	442	41	795
Moock, Otto T. (See Regar and Moock.)						
Moodie, Elhanan L., New York, N. Y. Bottle-label	365,146	June 21	1378	364	39	1360
Moody, Henry, Terrebonne, Quebec, Canada. Lag-iron for horse-powers	359,399	Mar. 15	1408	361	38	1177
Moody, Isaac E., Northampton, Mass. Manufacture of cutlery handles	359,883	Mar. 22	2178	549	38	1333
Moody, Jessie B., Rockford, Ill. Illustrated number-card	367,223	July 26	2026	{ 545 546 }	{ 40 }	408
Moomy, Joseph G., Erie, Pa. Automatic shut-off valve	367,994	Aug. 9	963	258	40	642
Moon, Dewitt A., Limona, Fla. Roller-colter and jointer	357,848	Feb. 15	1617	420	38	740
Moon, Edward A., assignor of one-half to E. Pynchon, Chicago, Ill. Sewing-machine attachment for embroidering	360,896	Apr. 12	712	189	39	139
Moon, Frank D. (See Farmer, Bovard, and Moon.)						
Moon, George W., Sparta, La., assignor of one-half to B. Wallis, Baltimore, Md. Seed-dropper	368,349	Aug. 16	1463	390	40	746
Mooney, John C. (See Boozel and Mooney.)						
Mooney, S. V. (See Collins, John, assignor.)						
Mooney, Squire V. (See Collins, John, assignor.)						
Mooney, Thomas H., Covington, Ky. Coffin	370,276	Sept. 20	1383	371	40	1310
Moore, Albert, <i>et al.</i> (See Doty, William B., assignor.)						
Moore, Arthur L., Englewood, Ill., assignor to American Buttonhole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Bracket for drawers	362,457	May 3	546	151	39	579
Moore, Asbury, Sidney, Ohio. School desk and seat	370,554	Sept. 27	1805	480	40	1395
Moore, Calvin. (See Van De Mark and Moore.)						
Moore, Cantnell J., Webster, Iowa. Gate	371,271	Oct. 11	762	{ 195 196 }	{ 41 }	158
Moore, Charles C., <i>et al.</i> (See Biven, Frederick, assignor.)						
Moore, Charles F., Gillett, Pa. Automatic brake	363,251	May 17	1670	{ 437 438 }	{ 39 }	801
Moore, Charles H., Bowling Green, Ky. Disinfectant	370,277	Sept. 20	1383	.....	40	1310
Moore, Charles J., <i>et al.</i> (See Christy and Bennett, assignors.)						
Moore, Charles T., assignor to National Typographic Company, Washington, D.C. Printing	362,987	May 17	1310	347	39	730
Moore, D. Sackett. (See Cooke, George K., assignor.)						
Moore, Daily S., Chicago, Ill. Machine for laying railway-tracks	356,777	Feb. 1	44	13	38	432
Moore, Daniel, Brooklyn, assignor of one-half to W. Haaker, Montclair, N. J. Water-base oil-burner	370,883	Oct. 4	199	52	41	39
Moore, Eben J., Monticello, Minn. Stump-extractor	367,428	Aug. 2	98	26	40	469
Moore, Edward A., Westford, Mass. Stop-motion mechanism for yarn-winding machines	373,842	Nov. 29	2355	632	41	947
Moore, Edward H., <i>et al.</i> (See Christy and Bennett, assignors.)						
Moore, Edward J., Philadelphia, Pa. Sectional water-tube boiler	371,616	Oct. 18	1242	323	41	260
Moore, Emil, Chicago, Ill. Milk-can	358,468	Mar. 1	64	17	38	915
Moore, Fernando C., and J. C. Thompson, Grinnell, Iowa. Combined scoop and scale	367,429	Aug. 2	99	26	40	470

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Moore, Frank, London, England. Nozzle.....	356,598	Jan. 25	1858	489	38	378
Moore, Frank, Pittsburg, Pa. Cut-off valve for fluid-supply pipes.....	361,884	Apr. 26	2153	558	39	424
Moore, Frank, Pittsburg, Pa. Pipe-joint for gas-mains.....	364,947	June 14	1074	280	39	1296
Moore, George. (See Sherman, Lewis P., assignor.)						
Moore, George C. (See Green and Moore.)						
Moore, George C., and J. W. Green, Jr., East Hampton, Mass. Elastic fabric.....	368,229	Aug. 16	1306	344	40	714
Moore, George C., and J. W. Green, Jr., East Hampton, Mass. Elastic fabric.....	368,230	Aug. 16	1307	345	40	714
Moore, George T., New York, N. Y. Sash-chain.....	357,620	Feb. 15	1278	335	38	678
Moore, George T., assignor of one-half to C. E. Williams, Westfield, Mass. Whip-snap.....	360,718	Apr. 5	460	116	39	85
Moore, Gideon E., New York, N. Y. Treating cotton-seed hulls.....	357,089	Feb. 1	488	130	38	512
Moore, Gilpin, assignor to Deere & Company, Moline, Ill. Beam-coupling for cultivators..	357,727	Feb. 15	1446	{ 378 379 }	{ 38 38 }	708
Moore, Henry C., Tama City, Iowa. Combined cultivator and potato-digger.....	365,844	July 5	117	32	40	24
Moore, Henry C., Tama City, Iowa. Direct-draft and road ditching machine.....	365,845	July 5	118	32	40	24
Moore, Henry C., Tama City, Iowa. Direct-draft and road ditching machine.....	365,846	July 5	119	33	40	25
Moore, Henry C., Tama City, Iowa. Direct-draft road and ditching machine.....	365,847	July 5	121	33.34	40	25
Moore, Henry C., Tama City, Iowa. Plow and grubber.....	366,597	July 12	1163	{ 312 313 }	{ 40 40 }	230
Moore, Henry H., <i>et al.</i> (See Biven, Frederick, assignor.)						
Moore, Homer J., assignor to Bryant & Stratton Mechanical Appliance Company, Chicago, Ill. Combined weight and envelope-sealer.....	360,458	Apr. 5	89	23	39	18
Moore, Homer J., Chicago, Ill., assignor to S. B. Foster. Hasp-lock.....	362,458	May 3	547	152	39	579
Moore, Hugh, Mauch Chunk, Pa. Door-securing device.....	360,897	Apr. 12	713	189	39	140
Moore, Isaac. (See Frazier, John A., assignor.)						
Moore, James N., and A. L. Miner, Lowell, Ind. Car-coupling.....	360,719	Apr. 5	461	117	39	85
Moore, John. (See Swalwell and Moore.)						
Moore, John B. (See Cornish and Moore.)						
Moore, John C., U. S. Revenue Marine. Life-boat.....	364,277	June 7	103	29	39	1109
Moore, John J. (See Goodrich, Adolphus S., assignor.)						
Moore, John K. (See Paynter, Edward P., Jr., assignor.)						
Moore, John S., Corvallis, Oreg. Hair-tonic.....	374,489	Dec. 6	457	.....	41	1133
Moore, John T., assignor of one-half to J. H. Russell, Sulphur Springs, Tex. Hearth for fire-places.....	367,054	July 26	1775	479	40	360
Moore, John W. (See White and Moore.)						
Moore, Joshua, Marseilles, Ill. Road-grading machine.....	374,691	Dec. 13	742	195	41	1201
Moore, Josiah H., assignor to himself and W. S. Weir, Monmouth, Ill. Cultivator.....	368,158	Aug. 9	1181	315	40	684
Moore, Lee E., deceased, Boston, Mass.; C. P. Gaither executor. Trimming-machine for boots or shoes.....	360,720	Apr. 5	462	117	39	85
Moore, Lewis, Bethalto, Ill. Fence.....	356,006	Jan. 11	1016	267	38	206
Moore Manufacturing Company. (See Blodgett, John W., assignor.)						
Moore, Mark C., Bunker Hill, Ohio. Harrow.....	370,154	Sept. 20	1220	324	40	1279
Moore, Martin C. (See Rose, John H. and C., assignors.)						
Moore, Matthew R., Indianapolis, Ind. Sand-molding machine.....	364,948	June 14	1076	280	39	1296
Moore, Matthew R., assignor to Atlas Engine Works, Indianapolis, Ind. Balanced slide-valve.....	362,525	May 10	640	181	39	602
Moore, N. Grier, administrator. (See Stock, Charles F.) (Reissue)						
Moore, N. Grier, Chicago, Ill. Type-writing machine.....	357,090	Feb. 1	490	130	38	513
Moore, Nathan G., Peoria, Ill. Type-writing machine.....	358,469	Mar. 1	65	17	38	915
Moore, Samuel. (See Valentine, John R., assignor.)						
Moore, Solon E., Swanton, Vt. Clothes-pin.....	365,755	June 28	2288	594	39	1544
Moore, Solon E., assignor to G. W. Squier, Swanton, Vt. Tub-fastener.....	360,390	Mar. 29	2975	754	38	1486
Moore, Solon E., assignor of one-half to G. W. Squires, Swanton, Vt. Buckle.....	362,030	Apr. 26	2365	616	39	461
Moore, Stephen, Newton, Mass., assignor to Mousam Manufacturing Company of Maine. Heel-stiffener for boots or shoes and manufacturing the same.....	367,430	Aug. 2	100	26	40	470
Moore, Theophilus W., Fruit Cove, Fla. Pavement.....	358,288	Feb. 22	2236	590	38	861
Moore, Thomas J. (See Warren, Edmond A., assignor.)						
Moore, Thomas N., <i>et al.</i> (See Grider, John, assignor.)						
Moore, Thomas W., Plainfield, N. J. Velocipede.....	365,015	June 14	1168	307	39	1312
Moore, Walter K. (See Sherman and Moore.)						
Moore, William. (See Sime and Moore.)						
Moore, William A., Washington, D. C. Combined door-plate, knocker, and letter-receiver.	359,458	Mar. 15	1487	381	38	1193
Moore, William A., assignor to Willingham Lumber Company, Chattanooga, Tenn. Split pulley.....	374,421	Dec. 6	353	92	41	1113
Moore, William B., Ormand, Pa. Steam-boiler cleaner.....	375,648	Dec. 27	2103	548	41	1477
Moore, William B., assignor to J. E. Wright, Chicago, Ill. Preventing incrustation.....	371,896	Oct. 18	1667	430	41	345
Moore, William B., East Saginaw, and W. A. McMann, Saginaw, Mich. Checkrein-holder..	371,964	Oct. 25	1763	457	41	373
Moore, William E., Chillicothe, Ohio. Clasp.....	359,459	Mar. 15	1488	381	38	1193
Moore, William E., Chillicothe, Ohio. Shaft-tug.....	373,087	Nov. 15	1218	325	41	714
Moore, William R., Unionville, Pa. Top-prop.....	372,556	Nov. 1	403	108	41	547
Moore, William M., assignor of one-half to S. Hanchett, Empire City, Colo. Scroll-saw....	360,813	Apr. 5	586	153	39	110
Mooren, Johannes, Essexville, Mich. Wagon-body support.....	361,017	Apr. 12	900	228	39	171
Moore, George W., New Orleans, La. Girth-buckle.....	357,684	Feb. 15	1380	363	38	696
Moore, George W., New Orleans, La. Buckle.....	357,685	Feb. 15	1381	363	38	696
Moore, George W., assignor of one-half to M. W. Smith, New Orleans, La. Buckle.....	359,683	Mar. 22	1854	481	38	1276
Moorhouse, John B. (See Edmondson, Moorhouse, and Procter.)						
Moosburgger, Joseph, St. Paul, Minn. Cover for barrels.....	368,957	Aug. 30	2335	621	40	931
Moose, John W., Mount Pleasant, N. C. Device for preventing horses from kicking.....	369,294	Aug. 30	2787	743	40	1020
Morand, Augustus, Philadelphia, Pa. Manufacture of tannin extract from wood.....	357,129	Feb. 1	575	148	38	527
Morand, Augustus, Philadelphia, Pa. Process of and apparatus for clarifying extracts....	365,087	June 21	1284	340	39	1344
Morden, William J., Chicago, Ill. Switch and signal stand.....	366,973	July 19	1668	448	40	332
Morden, William J., Chicago, Ill. Switch-chair.....	368,300	Aug. 16	1405	371	40	734
Morden, William J., Chicago, Ill. Railway-crossing.....	371,208	Oct. 11	673	172	41	141
Mordey, William M. (See Sellon and Mordey.)						
More, Peter H., Kirksville, Mo. Flood-fence.....	362,988	May 17	1312	347	39	730
Moreau, Frank I. (See Sanders and Moreau.)						
Morehouse, Aaron, Danbury, Conn., assignor to Hat Sweat Manufacturing Company, Philadelphia, Pa. Sewing-machine.....	356,413	Jan. 18	1594	419	38	319
Morehouse, Aaron, Danbury, Conn., assignor to Hat Sweat Manufacturing Company, Philadelphia, Pa. Sewing-machine gage.....	356,414	Jan. 18	1596	{ 419 420 }	{ 38 38 }	320
Morehouse, Aaron, Danbury, Conn., assignor to Hat Sweat Manufacturing Company, Philadelphia, Pa. Method of sewing.....	356,415	Jan. 18	1598	420	38	320
Morehouse, Aaron, Danbury, Conn., assignor to Hat Sweat Manufacturing Company, Philadelphia, Pa. Making sweat-bands for hats or caps.....	356,416	Jan. 18	1600	420	38	320
Morehouse, Charles B., Cincinnati, Ohio. Buggy-boot.....	368,301	Aug. 16	1406	371	40	734

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Morehouse, Charles L., Brooklyn, N. Y. Tool for finishing bottle-heads	361,774	Apr. 26	1983	517	39	392
Morehouse, Charles L., Brooklyn, N. Y. Bottle-stopper	368,228	Aug. 16	1305	344	40	714
Morehouse, Charles L., Brooklyn, N. Y. Bottle-stopper	368,958	Aug. 30	2336	621	40	931
Morehouse, Charles L., Brooklyn, N. Y. Bottle-stopper	368,959	Aug. 30	2338	621	40	931
Morehouse, Miles A., Johnsburg, N. Y. Therapeutic battery	373,088	Nov. 15	1218	325	41	714
Morel, Leon, Besançon, Doubs, France. Apparatus for raising beer, &c	355,619	Jan. 4	420	{ 115 116 }	{ 38 38 }	84
Morell, William F. (See Wolf and Morell.)						
Morey, Amos F., Ashland, Kans. Churn	356,694	Jan. 25	1992	523	38	403
Morey, Edward I., Whitewater, Wis. Clevis	363,252	May 17	1671	438	39	802
Morgan, Alfred. (See King and Morgan.)						
Morgan, Alfred W., assignor to T. E. Morgan, Washington, D. C. Bit-stock	361,227	Apr. 12	1219	310	39	231
Morgan, Bennett W., and J. A. Anderson, Terre Haute, Ind. Means for strengthening glass windows	368,413	Aug. 16	1555	415	40	764
Morgan, Charles B., Uncompahgre, Colo. Life-preserver	371,781	Oct. 18	1484	{ 383 384 }	{ 41 41 }	310
Morgan, Charles H., Worcester, Mass. Rolling-mill appliance	366,236	July 12	670	182	40	134
Morgan, Charles H., Gunnison, Colo. Air-ship	373,469	Nov. 22	1802	{ 479 480 }	{ 41 41 }	833
Morgan, Dan D., Johnson, Vt. Plow or scraper for making roads	366,677	July 19	1280	{ 341 342 }	{ 40 40 }	259
Morgan, Decatur, Camden Court-House, N. C. Fertilizer-distributor and seed-planter	356,259	Jan. 18	1371	{ 362 363 }	{ 38 38 }	278
Morgan, Doctor F., Akron, Ohio. Sectional boiler	365,402	June 28	1754	455	39	1444
Morgan Envelope Company <i>et al.</i> (See Wickham, Horace J., assignor.)						
Morgan, Frank E., assignor to New Haven Clock Company, New Haven, Conn. Clock-case	358,055	Feb. 22	1905	{ 503 504 }	{ 38 38 }	799
Morgan, Frank J., Kalamazoo, Mich. Frying-pan	366,860	July 19	1528	410	40	305
Morgan, George H., Long Acre, county of Middlesex, England. Carriage	356,370	Jan. 18	1536	{ 403 404 }	{ 38 38 }	309
Morgan, George H., Long Acre, county of Middlesex, England. Two-wheeled vehicle	360,721	Apr. 5	463	117	39	86
Morgan, George H., Long Acre, county of Middlesex, England. Two-wheeled vehicle	360,722	Apr. 5	464	{ 117 118 }	{ 39 39 }	86
Morgan, George W., Aberdeen, county of Aberdeen, Scotland. Multiplex photographic background	362,390	May 3	444	123	39	561
Morgan, George W., and S. P. Herr, Creswell, Iowa. Feed-trough	369,022	Aug. 30	2421	643	40	948
Morgan, Hubert W. (See Morgan, James T. and H. W.)						
Morgan, Hubert W., assignor to Meriden Casket Trimming Company, Meriden, Conn. Handle	364,724	June 14	727	193	39	1234
Morgan, Hubert W., assignor to Meriden Casket Trimming Company, Meriden, Conn. Coffin-handle. (Reissue.)	10,856	Aug. 9	1212	324	40	689
Morgan, James H., Brunswick, Mo. Railway-spike	371,471	Oct. 11	1038	270	41	211
Morgan, James T., Winsted, and H. W. Morgan, Meriden, Conn. Preservative paper	372,861	Nov. 8	877	.....	41	641
Morgan, John C. (See Moyer and Morgan.)						
Morgan, Joseph, Jr., Johnstown, Pa. Apparatus for tilting ladles	366,340	July 12	809	218	40	160
Morgan, Laurie A., <i>et al.</i> (See Parker, Samuel J., assignor.)						
Morgan, Mary E., Gainesborough, Tenn. Churn	367,431	Aug. 2	101	27	40	470
Morgan, Reese, Newport, Ky. Collapsible core-bar	373,749	Nov. 22	2216	593	41	914
Morgan, Richard. (See Bailey, William H., assignor.)						
Morgan, Thomas E. (See Morgan, Alfred W., assignor.)						
Morgan, Thomas W., and J. C. Tolson, Glasgow, Mo. Thrashing-machine	357,495	Feb. 8	1078	285	38	632
Morgan, William, Birmingham, England. Drive-chain	355,620	Jan. 4	422	116	38	84
Morgan, William G., Sharon, Pa. Machine for cutting and forming staples	375,375	Dec. 27	1728	453	41	1406
Morgan, William T., Muncie, Ind. Carpet-stretcher	356,417	Jan. 18	1601	421	38	320
Moriarty, Henry E., Westerly, R. I. Adjustable saw-buck	366,017	July 5	374	101	40	70
Morlet, Charles, Jersey City, N. J., assignor of one-half to P. Nordmann, New York, N. Y. Push-button for repeating-watches	367,995	Aug. 9	964	259	40	643
Morley Button Sewing Machine Company. (See Bennett, Walter E., assignor.)						
Morley, James H., Springfield, Mass. Plow	372,557	Nov. 1	403	108	41	547
Morley Sewing Machine Company. (See Bennett and Merwin, assignors.)						
Morlock, Albert, assignor to J. S. and G. F. Simpson, Brooklyn, N. Y. Grinding or pulverizing mill	373,190	Nov. 15	1378	365	41	742
Moroney, Michael, Sr., Chester, Iowa. Adjustable elevating and self-loading wheeled scraper	359,027	Mar. 8	895	228	38	1074
Morrell, Robert, Summit, N. J. Railway-tie	365,932	July 5	251	66	40	49
Morrell, Robert, Summit, N. J. Railway-tie	365,933	July 5	252	67	40	49
Morrell, Robert, Summit, N. J. Fire-engine	371,209	Oct. 11	674	173	41	141
Morrill, Charles, Jersey City, N. J. Pinchers	356,492	Jan. 25	1715	448	38	350
Morrill, Charles, Jersey City, N. J. Vent-bung	373,565	Nov. 22	1960	521	41	861
Morrill, Charles, Jersey City, N. J. Saw-set	375,088	Dec. 20	1343	350	41	1322
Morrill, Charles F., Boston, Mass. Watch-case	358,403	Feb. 22	2389	635	38	890
Morrill, Charles F., Boston, Mass. Watch-case	360,105	Mar. 29	2553	649	38	1410
Morrill, Charles F., Boston, Mass. Watch-case	369,871	Sept. 13	784	209	40	1191
Morrill, Charles F., Boston, Mass. Watch-case	372,558	Nov. 1	405	109	41	548
Morrill, George P., Canterbury, N. H. Wedge for tool-handles	362,989	May 17	1313	348	39	731
Morrill, George S., Boston, Mass. Bridge-guard for railways	361,018	Apr. 12	901	228	39	171
Morrill, Nathaniel H. (See Scofield, William E., assignor.)						
Morrin, Thomas F., Jersey City, N. J. Grate	364,841	June 14	922	244	39	1268
Morrin, Thomas F., Jersey City, N. J. Valve	364,842	June 14	924	245	39	1268
Morrin, Thomas F., Jersey City, N. J. Elevator-lock	365,088	June 21	1287	340	39	1344
Morris, Arthur G., Chicago, Ill. Oyster-frier	372,380	Nov. 1	146	42	41	497
Morris, Charles A., Bloomfield, N. J. Dredging-bucket	368,729	Aug. 23	2013	533	40	859
Morris, Charles C. (See Haggerty, James W., assignor.)						
Morris, Charles C., San Francisco, Cal. Faucet and automatic gas-valve	366,237	July 12	672	182	40	135
Morris, Charles J., <i>et al.</i> (See Morris, Samuel C., assignor.)						
Morris, Charles M., <i>et al.</i> (See Morris, Isaac L., assignor.)						
Morris, Frank H. (See Faust, Daniel H., assignor.)						
Morris, George W., Pittsburg, Pa. Car-spring	359,359	Mar. 15	1341	346	38	1165
Morris, George W., Brantford, Ontario, Canada. Thrashing-machine	373,678	Nov. 22	2118	{ 566 567 }	{ 41 41 }	894
Morris, Henry. (See Kelly, John M., assignor.)						
Morris, Henry B., S. R. Tisdell, and F. Labar, assignors to Autophone Company, Ithaca, N. Y. Mechanical musical instrument	363,841	May 31	2521	{ 655 656 }	{ 39 39 }	979
Morris, Henry M., Middletown, Cal. Car-coupling	364,598	June 7	554	149	39	1192

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Morris, Hirsch. (See Kahn and Morris.)						
Morris, Isaac L., assignor of three-fourths to C. M. Morris and O. Wolff, Baltimore, Md. Mail-bag fastener.....	374,903	Dec. 13	1051	275	41	1261
Morris, John H. and T. D., Seward, Nebr. Permutation-lock.....	368,414	Aug. 16	1556	415	40	765
Morris, John H. and T. D., Seward, Nebr. Permutation-lock.....	368,543	Aug. 16	1747	465	40	800
Morris, John J., Ocean Beach, N. J. Water-filter.....	364,599	June 7	555	{ 149 150 }	{ 39 }	1192
Morris, John L., Middleport, Pa. Miner's lamp.....	373,244	Nov. 15	1464	386	41	758
Morris, Louis. (See Kahn and Morris.)						
Morris, Nelson. (See Drueck, William R., assignor.)						
Morris, Robert E., Wichita, Kans. Type-writing machine.....	355,703	Jan. 11	557	{ 146 147 }	{ 38 }	119
Morris, Samuel C., assignor of two-thirds to J. R. Mitchell and C. J. Morris, Baltimore, Md. Soldering-machine.....	358,163	Feb. 22	2064	{ 543 544 }	{ 38 }	827
Morris, Sylvan H. (See Wright, George M., assignor.)						
Morris, Thomas, assignor to J. Berbecker & Co., New York, N. Y. Curtain-pole ring.....	372,813	Nov. 8	810	217	41	629
Morris, Thomas D. (See Morris, John H. and T. D.)						
Morris, Thomas J., Kenoma, Mo. Motor for rocking cradles or chairs.....	362,850	May 10	1108	300	39	686
Morris, Walter, Dover, Del. Baby traveling-commode.....	371,699	Oct. 18	1373	354	41	287
Morris, Willard B. (See Sims and Morris.)						
Morrison, Albert E., Charlottetown, Prince Edward Island, Canada. Temperature-alarm system.....	365,089	June 21	1288	{ 340 341 }	{ 39 }	1344
Morrison, Andrew J., Houghton, N. Y. Wheel-hub.....	358,687	Mar. 1	399	96	38	978
Morrison, Andrew J., West Troy, N. Y., assignor of one-half to G. L. Silliman, Rutland, Vt. Fastening for mail-bags.....	373,679	Nov. 22	2119	567	41	895
Morrison, Annie M., New York, N. Y. Supporting-band for aprons.....	361,537	Apr. 19	1626	421	39	320
Morrison, David S., Grinnell, Iowa. Glove.....	373,470	Nov. 22	1805	480	41	834
Morrison, Edgar K., South Acworth, N. H., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Clamp-operating mechanism for button-hole sewing-machines.....	367,312	July 26	2157	{ 580 581 }	{ 40 }	431
Morrison, Henry, Pittsburg, Pa. Combined foot-rest and kneeling-stool.....	365,446	June 28	1818	473	39	1455
Morrison, Horatio B., Britt, Iowa. Wire-cutter.....	359,684	Mar. 22	1854	472	38	1276
Morrison, J. Frank. (See Meyer, August, assignor.)						
Morrison, J. Henry, assignor to Allen Spool and Printing Company, Norwich, Conn. Device for babbitting journal-boxes.....	367,432	Aug. 2	102	27	40	470
Morrison, J. Henry, and C. L. Allen, assignors to Allen Spool and Printing Company, Norwich, Conn. Automatic boring-machine.....	361,832	Apr. 26	2069	538	39	408
Morrison, James, Toronto, Ontario, Canada. Bath-tub, basin, &c.....	359,169	Mar. 8	1070	279	38	1108
Morrison, James B., Kansas City, Mo. Adjustable chair.....	369,295	Aug. 30	2788	744	40	1020
Morrison, Louis L. (See Robinson, Arthur E., assignor.)						
Morrison, William A., Cambridge, Mass. Automatic liquid-separator.....	368,544	Aug. 16	1748	465	40	800
Morrison, William F., Bucyrus, Ohio. Soap-holder.....	373,471	Nov. 22	1806	481	41	834
Morrison, William W., New Castle, Pa. Fence-post.....	360,778	Apr. 5	541	140	39	102
Morrow, Christopher, Kansas City, Mo. Coping-saw.....	355,704	Jan. 11	561	147	38	120
Morrow, George L. K., assignor to D. M. Ferry, Detroit, Mich. Pitman.....	357,130	Feb. 1	578	148	38	527
Morrow, George W., et al. (See Morrow, James, assignor.)						
Morrow, Henry W., Wilmington, Del. Manufacture of trunks from chemically-treated fiber.....	361,885	Apr. 26	2154	558	39	424
Morrow, Henry W., Wilmington, Del. Treating vulcanized fiber.....	366,341	July 12	810	.....	40	160
Morrow, James, assignor of two-thirds to R. H. Morrow, Washington Court-House, and G. W. Morrow, Steubenville, Ohio. Collar-supporting pad for draft-animals.....	363,962	May 31	2705	701	39	1012
Morrow, James, assignor of two-thirds to R. H. Morrow, Washington Court-House, and G. W. Morrow, Steubenville, Ohio. Horse-collar pad.....	369,650	Sept. 6	469	131	40	1124
Morrow, Richard H., et al. (See Morrow, James, assignor.)						
Morrow, Samuel F., L. W. Loving, and W. B. McGowan, Paris, Tenn. Fence.....	372,924	Nov. 8	966	262	41	657
Morrow, Thomas A., Avery, Ohio. Potato-digger.....	359,091	Mar. 8	972	249	38	1089
Morrow, William H., et al. (See Vauclain, Samuel M., assignor.)						
Morse, Ancil B., assignor of one-half to I. Green, Baraboo, Wis. Door-hanger.....	360,898	Apr. 12	714	189	39	140
Morse, David R., et al. (See Solano, Renaldo, assignor.)						
Morse, Everett F., Ithaca, N. Y. Vehicle-spring.....	371,617	Oct. 18	1244	324	41	261
Morse, Frederick H., assignor of one-half to J. H. Williams, St. Louis, Mo. Cable railway.....	365,756	June 28	2288	594	39	1544
Morse, George W., Washington, D. C. Pocket cartridge-loader.....	361,966	Apr. 26	2275	591	39	445
Morse, Henderson D., et al. (See Schoonmaker, James H., assignor.)						
Morse, Ira, Danbury, Conn. Garment-fastener.....	357,621	Feb. 15	1278	336	38	678
Morse, Orville M., assignor to Knickerbocker Company, Jackson, Mich. Dust-collector.....	370,020	Sept. 13	1022	269	40	1234
Morse, Orville M., assignor to Knickerbocker Company, Jackson, Mich. Dust-collector.....	370,021	Sept. 13	1023	270	40	1235
Morse, Orville M., assignor to Knickerbocker Company, Jackson, Mich. Dust-collector.....	373,374	Nov. 15	1665	442	41	795
Morse, Orville M., assignor to Knickerbocker Company, Jackson, Mich. Flour-bolt.....	374,490	Dec. 6	458	118	41	1133
Morse, Peter B. (See Pratt, Granville, assignor.)						
Morse, Stephen A., Philadelphia, Pa. Lubricator for pulleys.....	373,940	Nov. 29	2489	668	41	973
Morse, Walter F., Norwood, Mass. Sash-fastener.....	368,960	Aug. 30	2339	622	40	932
Morsman, John A., Mapleton, Kans. Harrow.....	362,990	May 17	1314	348	39	731
Morstatt, William, New York, N. Y. Adjusting blind-slats.....	360,612	Apr. 5	316	78	39	60
Morstatt, William, New York, N. Y. Window-blind.....	361,019	Apr. 12	902	228	39	171
Mortenson, Hans, Brooklyn, assignor of one-half to C. Winters, New York, N. Y. Ash-can.....	366,342	July 12	812	218	40	160
Mortimer, Charles G. (See Crandall, Jesse A., assignor.)						
Mortimer, Charles G., New York, N. Y. Ruling tissue-paper.....	358,745	Mar. 1	476	117	38	992
Mortimer, Charles G., New York, N. Y. Toilet-paper holder.....	362,031	Apr. 26	2365	616	39	461
Mortimer, Charles G., New York, N. Y. Ornamenting paper.....	368,415	Aug. 16	1557	415	40	765
Mortimer, Stephen C., Fort Wayne, Ind. Mechanism for converting motion.....	360,970	Apr. 12	827	211	39	159
Mortlandt, David N., et al. (See Hix, Oliver P., assignor.)						
Morton, David A., et al. (See Slaton, Clifton H., assignor.)						
Morton, Edwin W., White Plains, N. Y. Calendar-clock.....	368,961	Aug. 30	2340	622	40	932
Morton, Edwin W., White Plains, N. Y., assignor to A. McCullough, Wales, Ontario, Canada. Twenty-four-hour clock.....	355,461	Jan. 4	216	58	38	44
Morton, Matthew, Romeo, Mich. Horse-power fire-engine.....	356,778	Feb. 1	46	13	38	432
Morton, Matthew, Romeo, Mich. Key and key-seat cutter.....	373,680	Nov. 22	2121	{ 567 568 }	{ 41 }	895
Morton, Walter S., St. Paul, Minn. Lock for elevator-cables.....	356,149	Jan. 18	1234	327	38	251
Morton, William M., Minneapolis, Minn. Tool for blind nailing or screwing.....	359,224	Mar. 8	1151	299	38	1123
Moschcowitz, Louis, New York, N. Y. Bustle-spring.....	362,391	May 3	445	123	39	562
Moschcowitz, Louis, New York, N. Y. Woven fabric for skirt-facings.....	365,147	June 21	1378	364	39	1360
Moschcowitz, Schamu M., New York, N. Y. Dress-weight.....	356,048	Jan. 11	1073	282	38	216
Moser, Albert F. (See Moser, Jacob and A. F.)						
Moser, Edmund, Pittsburg, Kans. Coal and rock drilling machine.....	363,477	May 24	1988	519	39	871

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Moser, Eugene. (See Sumner and Moser.)						
Moser, Fred J., North Clarendon, Pa. Clamp	368,104	Aug. 9	1109	294	40	669
Moser, Jacob and A. F., Sigel, Ill. Adjustable lantern-holder	373,472	Nov. 22	1807	481	41	834
Moser, John, and E. Moeckel, Crookston, Minn. Railway-tie	371,780	Oct. 18	1483	383	41	310
Moser, William H., East Portland, Oreg. Berry-box	369,651	Sept. 6	470	131	40	1124
Moses, Theodore B., Jr., Boston, Mass. Attaching device for suspenders	366,787	July 19	1429	382	40	286
Moses, Walter S., Annisquam, Mass. Machine for cutting fish	356,725	Jan. 25	2031	534	38	410
Mosey, Volentine M., Thayer, Mo. Jean-rack	362,392	May 3	446	124	39	562
Mosher, Benjamin F., <i>et al.</i> (See Stewart, George W., assignor.)						
Mosher, Charles. (See Grether and Mosher.)						
Mosher, Charles D., Amesbury, Mass. Screw-propeller	368,416	Aug. 16	1558	416	40	765
Mosher, George D., Birmingham, Conn. Tool-handle	359,400	Mar. 15	1409	361	38	1177
Mosher, Howard P. (See Baker, Theodore, assignor.)						
Mosher, Jethro, New York, N. Y. Combined clothes-line reel, pin-holder, &c	356,779	Feb. 1	47	13, 14	38	432
Mosher, Martin J., Troy, N. Y. Hot-air furnace	370,807	Oct. 4	77	20	41	17
Mosher, Nelson H., Eau Claire, Wis. Artificial stone	362,851	May 10	1109		39	686
Mosher, Samuel E., Chillicothe, Ohio. Lifting-jack	356,486	Jan. 25	1708	446	38	349
Mosher, Samuel E., Chillicothe, Ohio. Telegraphic alarm-signal	361,020	Apr. 12	904	{ 228 229 }	39	171
Mosher, Silas H., assignor of one-half to T. J. Wheeler, Chicago, Ill. Feed-water purifier	373,191	Nov. 15	1379	365	41	742
Mosley, John H. (See Scarritt and Mosley.)						
Moss, Frank P., Philadelphia, Pa. Mail-bag	374,845	Dec. 13	964	252	41	1243
Moss, Fred, New York, N. Y., and R. Cook, East Newark, N. J. Cop-tube machine	373,566	Nov. 22	1962	{ 521 522 }	41	861
Moss, Gilbert, Three Oaks, Mich. Device for obviating dead-centers	355,705	Jan. 11	563	147	38	120
Moss, John L., Columbus, Miss., and N. Littell, Pleasanton, Kans. Oil-press	373,473	Nov. 22	1807	481	41	834
Moss, Robert T., Cambridge, Ohio. Halter	367,831	Aug. 9	724	195	40	597
Moss, Thomas F., Hudson, Wis. Hose-coupling	360,779	Apr. 5	542	140	39	102
Moss, William F., Fitzpatrick's, Ala. Cotton-press clamp	372,862	Nov. 8	878	234	41	641
Mossberg, Frank, assignor of one-third to D. McNiven, Pawtucket, R. I. Micrometer-gage	356,726	Jan. 25	2033	{ 534 535 }	38	410
Mossman, James, Westerville, Ohio. Pitman	362,032	Apr. 26	2366	617	39	461
Mossman, James, Westerville, Ohio. Windmill	373,089	Nov. 15	1219	326	41	714
Mossop, William F., Philadelphia, Pa., assignor of one-half to M. M. Hirsch, Chicago, Ill. Convertible freight-car	357,937	Feb. 15	1733	453	38	762
Mote, John R., Antwerp, Ohio. Fence	372,322	Nov. 1	56	17	41	482
Motes, Columbus W. (See Cooper, John W., assignor.)						
Motley, James, New York, N. Y. Steam-trap	366,861	July 19	1529	410	40	305
Mott Iron Works, J. L. (See Cliff, Walter, assignor.)						
Mott Iron Works, J. L. (See Demarest, John, assignor.)						
Mott, John C., New York, N. Y. Preserving cider	365,148	June 21	1379		39	1360
Mott, Smith B. (See Simpson, Mott, and Speicher.)						
Motz, Philip, <i>et al.</i> (See Paris, Paul G., assignor.)						
Mouck, Andrew B., Fargo, Dak. Ter. Harvester	375,376	Dec. 27	1729	454	41	1406
Moulinet, Gustave, Paris, France. Corset-fastening	360,613	Apr. 5	318	78	39	60
Moulton, Fordyce M., Vergennes, and J. Booth, Ferrisburg, Vt. Road-scraper	370,347	Sept. 20	1483	{ 397 398 }	40	1329
Moulton, Hamilton L., and W. H. Clarkson, assignors to J. Smith Woolen Machinery Company, Philadelphia, Pa. Manufacture of toothed cylinders for textile machinery	368,417	Aug. 16	1559	416	40	765
Moulton, Hamilton L., and W. H. Clarkson, assignors to J. Smith Woolen Machinery Company, Philadelphia, Pa. Manufacture of toothed cylinders	368,418	Aug. 16	1559	416	40	765
Moulton, James N., <i>et al.</i> (See Ivory, John C., assignor.)						
Moulton, Luther V., and J. H. Rempis, Grand Rapids, Mich. Sled	369,359	Sept. 6	75	23	40	1048
Moulton, O. H., <i>et al.</i> (See Davis, Albert A., assignor.)						
Mound City Manufacturing Company. (See Shine, Patrick H., assignor.)						
Mousam Manufacturing Company. (See Andrews, Emery, assignor.)						
Mousam Manufacturing Company of Maine. (See Moore, Stephen, assignor.)						
Mouzon, Henry J., Bamberg, S. C. Feed and water tray for chickens	366,499	July 12	1004	274	40	200
Movius, Albert W. (See Niles, Cleveland P., assignor.)						
Mower, Charles G., St. Albans, Me. Harrow	356,150	Jan. 18	1235	327	38	251
Mower Knife Grinder Company. (See Dutton, Rufus, assignor.)						
Moxham, Arthur J., Johnstown, Pa. Rolls for rolling grooved girder-rails for street-cars	355,777	Jan. 11	668	174	38	140
Moxham, Arthur J., Johnstown, Pa. Metallic-cored post for street-railway tracks	355,778	Jan. 11	670	174	38	140
Moxham, Arthur J., Johnstown, Pa. Railway-rail chair	355,779	Jan. 11	671	174	38	140
Moxham, Arthur J., Johnstown, Pa. Making center-bearing girder-rails	355,780	Jan. 11	672	175	38	140
Moxham, Arthur J., Johnstown, Pa. Rolls for rolling center-bearing girder-rails	355,781	Jan. 11	673	175	38	140
Moxham, Arthur J., Johnstown, Pa. Center-bearing girder-rail and splice-joint	355,782	Jan. 11	674	176	38	140
Moxham, Arthur J., Johnstown, Pa. Railway-rail chair	357,849	Feb. 15	1619	{ 420 421 }	38	741
Moxham, Arthur J., Johnstown, Pa. Railway-chair spike	358,122	Feb. 22	2007	528	38	816
Moxham, Arthur J., Johnstown, Pa. Street-railway frog	358,619	Mar. 1	302	72	38	959
Moxham, Arthur J., Johnstown, Pa. Rolls for rolling girder-rails	360,036	Mar. 29	2428	{ 616 617 }	38	1387
Moxham, Arthur J., Johnstown, Pa. Paving-block for street-railway beds	360,780	Apr. 5	543	141	39	102
Moxham, Arthur J., Johnstown, Pa. Wire cable	362,649	May 10	834	227	39	635
Moxham, Arthur J., Johnstown, Pa. Tongue-switch for street-railways	364,725	June 14	728	194	39	1234
Moxham, Arthur J., Johnstown, Pa. Curved crossing for street-railways	366,497	July 12	1002	273	40	199
Moxham, Arthur J., Johnstown, Pa. Railway T-chair	366,498	July 12	1003	{ 273 274 }	40	200
Moxham, Arthur J., Johnstown, Pa. Movable-tongue switch for street-railways	366,598	July 12	1165	313	40	230
Moxham, Arthur J., Johnstown, Pa. Railway-crossing	367,433	Aug. 2	103	27	40	470
Moxham, Arthur J., Johnstown, Pa. Railway-rail chair	367,434	Aug. 2	104	28	40	470
Moxham, Arthur J., Johnstown, Pa. Pocket-filling device for girder-rails	367,654	Aug. 2	443	122	40	535
Moxham, Arthur J., Johnstown, Pa. Combination crossing and switch for railway-tracks	367,655	Aug. 2	443	{ 122 123 }	40	535
Moxham, Arthur J., Johnstown, Pa. Street-railway crossing	374,265	Dec. 6	129	33, 34	41	1072
Moyer, Allen G., Hilltown, assignor to H. W. Gross, Doylestown, Pa. Butter-case	373,901	Nov. 29	2443	656	41	963
Moyer, Benjamin M., Hatfield, Pa. Fruit-picker	363,078	May 17	1436	380	39	755
Moyer, Frank J., and C. A. Hoag, Lockport, N. Y. Mold for forming plastic or composition targets	360,899	Apr. 12	716	189	39	140
Moyer, Frank J., and C. A. Hoag, Lockport, N. Y. Flying target	364,600	June 7	557	150	39	1193
Moyer, Harvey A., Syracuse, N. Y. Spring-vehicle	357,780	Feb. 15	1532	399	38	724
Moyer, Harvey A., Syracuse, N. Y. Spring-vehicle	357,781	Feb. 15	1533	399	38	724

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Moyer, Harvey A., Syracuse, N. Y. Spring-vehicle.....	357,782	Feb. 15	1534	399	38	724
Moyer, Harvey A., Syracuse, N. Y. Vehicle-body.....	364,843	June 14	926	245	39	1268
Moyer, Harvey A., Syracuse, N. Y. Spring-vehicle.....	373,375	Nov. 15	1666	442	41	796
Moyer, James, and J. C. Morgan, Alliance, Ohio. Gasoline-tank for gasoline street-lamps.	359,621	Mar. 22	1775	451	38	1261
Moyer, Solomon S., Allentown, Pa. Universal clock.....	369,462	Sept. 6	208	59	40	1072
Moyes, Andrew, Lawrence, Mass. Oiler.....	372,634	Nov. 1	517	141	41	568
Mudd, Frank X. (See Munro and Mudd.)						
Mudge, Clark S. (See Palmer and Mudge.)						
Mudge, Henry S. (See Bryson and Mudge.)						
Mudgett, Theron W., Coldwater, Mich. Road-cart.....	358,404	Feb. 22	2391	635	38	890
Mueller, August. (See Koeller and Mueller.)						
Mueller, Erich A., St. Louis, Mo. Grain separator and grader.....	359,514	Mar. 15	1583	{ 405 406 }	{ 38 }	1210
Mueller, Fred W. (See Nash, Henry R., assignor.)						
Mueller, George A. (See Holz and Mueller.)						
Mueller, Hieronymus, Decatur, Ill. Device for tapping mains.....	361,021	Apr. 12	907	229	39	172
Mueller, Joseph H. (See Marx and Mueller.)						
Mueller, Louis J., Milwaukee, Wis. Hot-air furnace.....	365,193	June 21	1437	379	39	1372
Mueller, Martin G., Frohna, Mo. Clover-harvester.....	364,949	June 14	1079	281	39	1296
Mueller, Wilhelm, St. Louis, Mo. Corset-fastening.....	361,593	Apr. 19	1716	443	39	336
Mueller, William H., <i>et al.</i> (See Gold, Joseph S., assignor.)						
Mueller, William H., assignor of one-half to H. Butler, Columbus, Ohio. Machine for trim- ming the ends of billiard-cues.....	362,526	May 10	642	181	39	602
Muench, Bernhard, Brooklyn, N. Y. Sheath for filtering-bags for saccharine liquids, &c.	361,594	Apr. 19	1717	443	39	336
Muench, Bernhard, Brooklyn, N. Y. Loom for weaving open-mesh tubular fabrics.....	373,533	Nov. 22	1919	509	41	854
Muenchinger, Gustave A., Newport, R. I. Incubator.....	366,599	July 12	1167	313	40	231
Mügel Gebrüder. (See Zickwölff, Eduard, assignor.)						
Muir, John F., Topeka, Kans. Mail, parcel, or cash carrier.....	373,997	Nov. 29	2574	692	41	989
Muir, John F., Topeka, Kans. Parcel or cash carrier.....	373,998	Nov. 29	2575	692	41	990
Muir, John F., Topeka, Kans. Parcel-carrier.....	373,999	Nov. 29	2577	692	41	990
Muir, John S., Hanford, Cal. Electro-medical apparatus.....	374,747	Dec. 13	822	216	41	1217
Muirhead, Richard B., Catskill, N. Y. Stopping mechanism for circular-knitting machines.	364,726	June 14	730	194	39	1234
Mulgrew, Michael J., <i>et al.</i> (See Gannon, William J., assignor.)						
Mulholland, Robert, assignor to himself and G. G. Roe, Mineville, N. Y. Alarm for hoist- ing machinery.....	355,883	Jan. 11	834	218	38	169
Mullaney, John F., Plainville, Kans. Speed-regulating machine.....	368,302	Aug. 16	1406	371	40	735
Mullen, Francis M. (See Mullen, Winfield W. and F. M.)						
Mullen, Henry, and J. Noble, Jr., Westfield, Mass. Whip-rolling machine.....	367,761	Aug. 2	616	166	40	567
Mullen, Jeremiah, Rochesterville, Ontario, Canada. Car-coupling.....	357,496	Feb. 8	1079	285	38	632
Mullen, John W., Holyoke, Mass. Testing-machine.....	358,056	Feb. 22	1906	504	38	799
Mullen, Winfield W. and F. M., Bunker Hill, Ind. Grain-drill.....	355,462	Jan. 4	217	58	38	44
Muller, August. (See Wolf, Josef, assignor.)						
Muller, Ernest P., Brooklyn, assignor of two-thirds to I. N. and A. C. Heidelberg, New York, N. Y. Fire-extinguisher for cars.....	375,181	Dec. 20	1470	384	41	1348
Muller, F. Ernst, Brooklyn, N. Y. Folding bedstead.....	365,348	June 21	1662	{ 434 435 }	{ 39 }	1414
Müller, Franz, Siegenfeld, near Baden, Austria-Hungary. Elevated way.....	372,381	Nov. 1	147	43	41	497
Müller, Frederick W., New York, N. Y. Confectioner's ornamenting-funnel.....	361,312	Apr. 19	1333	342	39	264
Müller, Frederick W., New York, N. Y. Dropper for confectioners and bakers.....	361,313	Apr. 19	1334	342	39	264
Müller, George, New York, N. Y. Cane-handle.....	360,814	Apr. 5	586	153	39	110
Müller-Jacobs, Armand, New York, N. Y., assignor to Universal Color Company, of New York. Photography.....	358,816	Mar. 1	582	.....	38	1012
Müller-Jacobs, Armand, New York, N. Y., assignor to Universal Color Company, of New York. Photographic reproduction.....	358,817	Mar. 1	583	.....	38	1012
Müller, Johannes. (See Berger and Müller.)						
Müller, John P., Brooklyn, N. Y., assignor of one-half to J. E. Heuäcker, Jersey City, N. J. Liquid-measure.....	362,393	May 3	447	124	39	562
Müller, John P., Brooklyn, N. Y., assignor of one-half to J. E. Henäcker, Jersey City, N. J. Liquid-measure.....	368,545	Aug. 16	1749	465	40	800
Muller, Louis, assignor of one-half to L. Muller, Jr., Hinsdale, Ill. Leaf-turner.....	370,884	Oct. 4	200	53	41	40
Müller, Melchior, Baltimore, Md. Water-heater.....	365,016	June 14	1170	307	39	1312
Muller, Otto. (See Martinez and Muller.)						
Muller, Otto, New York, N. Y. Connecting-box for sectional steam-boilers.....	368,602	Aug. 23	1823	484	40	824
Muller, Otto, New York, N. Y. Connecting-box for sectional steam-boilers.....	368,603	Aug. 23	1823	485	40	824
Muller, Valentine H., New York, N. Y. Tandem bicycle.....	371,513	Oct. 11	1099	286	41	223
Müller, W. Hermann. (See Von Rönne, Johann, assignor.)						
Mulliken, A. Henry, <i>et al.</i> (See Curry, Lewis M., assignor.)						
Mulliken, John B., <i>et al.</i> (See Pungs, William A., assignor.)						
Mullins, Daniel P., assignor of one-half to D. H. Bergh, Chicago, Ill. Garment-stretcher..	373,027	Nov. 8	1131	302	41	686
Mullins, George G., Chicago, Ill. Manufacture of iron.....	370,401	Sept. 27	1573	.....	40	1354
Mullins, John W., London, Ky. Prison door, cell, and window.....	367,832	Aug. 9	725	195	40	597
Mullins, John W., London, Ky. Repeating gun or fire-arm.....	373,410	Nov. 15	1715	454	41	804
Mulloy, Edwin F. (See Pynchon, Macklin, Mulloy, McDermott, and O'Brien.)						
Mulloy, Thomas C. (See Duby, Ambrose, assignor.)						
Mulloy, William, Great Falls, N. H. Hoof-pad.....	372,635	Nov. 1	518	142	41	569
Mulvaney, John J., Jr., assignor of one-half to A. P. Dumler, Cincinnati, Ohio. Nut-lock.	375,711	Dec. 27	2196	571	41	1494
Mumbrue, Orville W., assignor of one-half to J. H. Cook, Homer, Mich. Road-cart.....	372,925	Nov. 8	967	263	41	657
Mumford, Joseph A., Hansport, Nova Scotia, Canada. Steam-boiler.....	368,679	Aug. 23	1933	514	40	846
Mummery, Walter S., Elba, Mich. Creamer.....	360,459	Apr. 5	90	23	39	18
Munday, John W., <i>et al.</i> (See Hill, Christian C., assignor.)						
Munday, John W., trustee, <i>et al.</i> (See Hill, Christian C., assignor.)						
Munger, Joseph, assignor to Scovill Manufacturing Company, Waterbury, Conn. Paper file or clip.....	363,533	May 24	2078	538	39	888
Mungiven, James M., Brooklyn, N. Y. Paint-can press.....	356,205	Jan. 18	1300	344	38	263
Mungiven, James M., Brooklyn, assignor to S. A. Hsley, New York, N. Y. Can-seaming machine.....	373,150	Nov. 15	1319	350	41	732
Municipal Signal Company. (See Chase, Henry A., assignor.)						
Municipal Signal Company. (See Martin, Morris, assignor.)						
Municipal Signal Company. (See Noyes, Bernice J., assignor.)						
Munn, A. G., trustee. (See Wolfe, Harvey R., assignor.)						
Munn, Henry C., <i>et al.</i> (See Scofield, Henry L., E. J., and A. B., assignors.)						
Munro, Charles S. (See Palmer and Munro.)						
Munro, Reuben. (See Lyon and Munro.)						
Munro, Willis C., and F. X. Mudd, Cincinnati, Ohio. Copy-holder for type-writing machines.	368,962	Aug. 30	2343	622	40	932

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Munro, William F. (See Clarke, Reuben, assignor.)						
Munroe, Cirthbert C., assignor of one-half to C. F. Hastings and E. M. Paine, Boston, Mass. Thill-coupling	372,166	Oct. 25	2066	529	41	427
Munroe Organ Reed Company. (See Parker, William D., assignor.)						
Munroe, Thomas W., San Francisco, assignor to two-thirds to H. B. Berryman, Berkeley, Cal. Automatic mechanism for station-indicators	375,182	Dec. 20	1472	385	41	1348
Munroe, Thomas W., San Francisco, assignor of two-thirds to H. B. Berryman, Berkeley, Cal. Station-indicator	375,326	Dec. 20	1659	435	41	1385
Munsell, Charles, Racine, Wis. Swing-bridge gate	356,076	Jan. 11	1116	295	38	224
Munsie, James F., Chicago, Ill. Underground conduit for electric conductors	356,151	Jan. 18	1236	327	38	252
Munsie, James F., Chicago, Ill. Conduit system for electric conductors	356,152	Jan. 18	1238	328	38	252
Munsie, James F., Chicago, Ill. Electric wire or cable distributing system	356,153	Jan. 18	1239	328	38	252
Munsie, James F., Chicago, Ill. Hauling-through conduit system	371,965	Oct. 25	1765	457	41	374
Munsing, George D., Rochester, N. Y. Cattle tie and halter	357,728	Feb. 15	1447	379	38	708
Munson, Alvin J., Indianapolis, Ind. Ball ornament for lightning-rods, &c	355,655	Jan. 4	487	130	38	95
Munson, Edward H. (See Johnson, Thomas O., assignor.)						
Munson, James, Buffalo, N. Y. Furnace-register	372,271	Oct. 25	2225	570	41	458
Munson, Sarah A., Joliet, Ill. Bustle	361,314	Apr. 19	1335	343	39	265
Munson, Theophilus, near Horine Station, Mo. Paint	374,266	Dec. 6	130		41	1072
Münter, Gustav H., Herford, Westphalia, Germany. Stove	358,470	Mar. 1	68	18	38	916
Munton, James, Maywood, Ill. Machine for shearing tire-blooms	363,842	May 31	2524	656	39	979
Munton, James, Maywood, Ill. Machine for rolling car-wheel tires	363,843	May 31	2525	{ 656 } { 657 }	{ 39 }	980
Muntzebaugh, James C., et al. (See Brown, William, assignor.)						
Murchey, Adam and J., and W. Luttrell, Guelph, Ontario, Canada, assignors to Ney Manufacturing Company, Canton, Ohio. Track for hay-carriers	375,089	Dec. 20	1344	351	41	1322
Murchey, Joseph. (See Murchey and Luttrell.)						
Murchey, William W., Toronto, Ontario, Canada. Screw-cutting die	363,754	May 24	2396	622	39	949
Murchison, James F., Tennille, Ga. Plow	370,808	Oct. 4	78	20, 21	41	17
Murdick, Israel H., Hartford, Mich. Steam-generator	361,228	Apr. 12	1220	{ 310 } { 311 }	{ 39 }	232
Murdoch, Thomas, Middletown, Conn. Guide for rock-drills	364,278	June 7	104	30	39	1109
Murdoch, William H., Ringgold, Ga. Car-retracker	370,402	Sept. 27	1573	421	40	1354
Murdock, George J. and J. P., New York, N. Y. Sad-iron	356,881	Feb. 1	200	56	38	458
Murdock, Jeannette P. (See Murdock, George J. and J. P.)						
Murdock, Thomas, Middletown, Conn., assignor to Knox Rock Blasting Company, Pittsburgh, Pa. Rock-drilling device	357,729	Feb. 15	1448	379	38	708
Murdock, Thomas, Middletown, Conn., and J. L. L. Knox, Allegheny, assignors to Knox Rock Blasting Company, Pittsburgh, Pa. Blasting out rock corners	357,730	Feb. 15	1449	379	38	709
Murgatroyd, Frank, Cleveland, Ohio. Mechanism for hoisting and transmitting freight, coal, ores, &c	355,884	Jan. 11	835	{ 218 } { 219 }	{ 38 }	169
Murgatroyd, Frank, Cleveland, Ohio. Hoisting and carrying mechanism. (Reissue)	10,833	May 3	577	{ 160 } { 161 }	{ 39 }	586
Muringer, Morand, New York, N. Y. Game apparatus	362,898	May 10	1181	316	39	700
Murison, James. (See Green and Murison.)						
Murph, John J. (See Kelly, John E., assignor.)						
Murphy, Alexander A., Montreal, Quebec, Canada. Form for displaying textile fabrics	355,833	Jan. 11	755	198	38	154
Murphy, Bartholomew J., Middletown, Conn. Sled-propeller	371,897	Oct. 18	1668	430	41	345
Murphy, Daniel H., Hartford, Conn. Mechanical toy	360,037	Mar. 29	2429	617	38	1387
Murphy, Edwin W., Cincinnati, Ohio. Exercising-machine	372,272	Oct. 25	2226	571	41	458
Murphy, Frank J., and A. M. Rundle, Danbury, Conn. Machine for stiffening hats	361,073	Apr. 12	975	247	39	186
Murphy, John, Brooklyn, N. Y. Rubber belting	355,834	Jan. 11	756	198	38	154
Murphy, John, assignor of one-half to J. A. Allen, Adams, Mass. Separating-plate for warp-beamers	371,272	Oct. 11	763	196	41	158
Murphy, John L., Springfield, Mass. Bridle-bit	357,497	Feb. 8	1080	285	38	632
Murphy, John M., and J. Lynn, New York, N. Y. Fire-escape	362,527	May 10	643	181	39	602
Murphy, John W., assignor of one-fourth to G. M. Clark & Company, Chicago, Ill. Lantern	371,898	Oct. 18	1669	{ 430 } { 431 }	{ 41 }	345
Murphy, Julia E. (See Brumfield and Murphy.)						
Murphy, Lamartine P., et al. (See Gregory, James, assignor.)						
Murphy, Livy D., Blue Springs, Mo. Car-coupling	371,618	Oct. 18	1246	324	41	261
Murphy, Matthew H., Portland, Oreg. Fruit-picker	362,650	May 10	835	228	39	635
Murphy, Nicholas, Chicago, Ill. Air and smoke spreader and distributor for smoke-houses	355,706	Jan. 11	564	148	38	120
Murphy, Patrick J., et al. (See Kendall, Elton P., assignor.)						
Murphy, Thomas M., St. Louis, Mo., assignor, by mesne assignments, to himself as trustee. Sprinkler	366,974	July 19	1669	{ 449 } { 450 }	{ 40 }	332
Murphy, Thomas M., St. Louis, Mo., assignor, by mesne assignments, to said Murphy, trustee. Sprinkler	367,762	Aug. 2	617	167	40	567
Murphy, Walter G., New York, N. Y. Transporting live fish	360,391	Mar. 29	2976		38	1486
Murphy, William, Omio, Kans. Corn-cultivator and weed-cutter	362,033	Apr. 26	2367	617	39	461
Murphy, William, New York, N. Y. Stone-sawing machine	369,463	Sept. 6	210	59	40	1072
Murphy, William H. (See Cordray, Henry A., assignor.)						
Murray, Archibald B., San Rafael, Cal. Atmospheric brake	369,805	Sept. 13	672	182	40	1171
Murray, Charles E., Fairfield, assignor of one-half to T. W. Lambert, Avis, Va. Wrench	375,712	Dec. 27	2196	571	41	1494
Murray, Charles H. (See Noble and Murray.)						
Murray, Charles H., Denver, Colo. Adjustable cuff-holder	368,350	Aug. 16	1465	391	40	747
Murray, Charles H., assignor to W. G. Armstrong, Mitchell & Co., (limited,) Newcastle-upon-Tyne, England. Apparatus for opening and closing the breech of heavy guns	373,598	Nov. 22	2008	532	41	871
Murray, Charles H., assignor to W. G. Armstrong, Mitchell & Co., (limited,) Elswick Works, Newcastle-upon-Tyne, England. Hydraulic mechanism for operating ordnance	374,990	Dec. 20	1203	313	41	1296
Murray, Daniel, Salem, Mass. Thill-coupling	357,221	Feb. 8	705	182	38	560
Murray, Daniel B., Youngstown, Ohio. Carriage-seat	358,057	Feb. 22	1909	504	38	800
Murray, Donald J., Wausau, Wis. Saw-guide	355,707	Jan. 11	565	148	38	120
Murray, George W., Bluffton, Ohio. Spring-cushion	358,563	Mar. 1	229	53	38	946
Murray, Henry F., Lawrence, assignor to J. W. Brooks, Cambridge, and F. F. Stanley, trustees, Boston, Mass. Nail	374,549	Dec. 6	550	143	41	1153
Murray, John, Fort Wayne, Ind. Device for working upright folding beds	375,183	Dec. 20	1474	385	41	1349
Murray, John J., et al. (See Paramore, John E., assignor.)						
Murray, Leonidas, assignor of one-half to E. Howard Watch and Clock Company, Boston, Mass. Manufacture of clock and watch balances	359,980	Mar. 22	2329	586	38	1361
Murray, Maude C., Bardstown, Ky. Holder for bed-covers	373,424	Nov. 15	1736	458	41	808
Murray, Michael R., assignor of one-half to J. E. Crandell, Cambridge, N. Y. Horseshoe-calk machine	370,745	Sept. 27	2094	555	40	1449
Murray, Peter, Jr., assignor to Backus Manufacturing Company, Newark, N. J. Rotary fan	357,731	Feb. 15	1450	380	38	709

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Murray, Peter, Jr., assignor to Backus Manufacturing Company, Newark, N. J. Hydraulic motor.	357,732	Feb. 15	1451	380	38	709
Murray, Peter, Jr., Newark, N. J., assignor, by mesne assignments, to Backus Manufacturing Company of New Jersey. Fan attachment. (Reissue).	10,815	Mar. 8	1173	305	38	1127
Murray, Peter, Jr., Newark, N. J., assignor to Backus Manufacturing Company. Water-motor.	363,534	May 24	2079	{ 538 539 }	{ 39 39 }	889
Murray, Samuel, San Francisco, Cal. Cargo-discharging apparatus.	366,343	July 12	813	{ 218 219 }	{ 40 40 }	161
Murray, William, Minneapolis, Minn. Setting telegraph-poles.	359,622	Mar. 22	1775	452	38	1261
Murray, William A., Piako, Auckland, New Zealand. Wire-tightener.	371,514	Oct. 11	1100	286	41	224
Murray, William A., Piako, Auckland, New Zealand. Wire-tightener.	372,382	Nov. 1	149	43	41	498
Murray, William J., Jolon, Cal. Car-axle.	355,463	Jan. 4	219	58, 59	38	44
Murray, William P. (See Brown, Sabin F., assignor.)						
Murrill, Edward M., Cornersville, Tenn. Mouse or rat trap.	365,848	July 5	127	34	40	26
Murry, John H., <i>et al.</i> (See Byrkit, Edwin M., assignor.)						
Murtoff, Harry A., assignor of one-half to S. B. Best, Boiling Springs, Pa. Bag-holder.	356,780	Feb. 1	49	14	38	432
Musgrave, James H., assignor of one-half to J. Siemon, Baltimore, Md. Safety illuminating-gas device.	363,343	May 17	1795	470	39	825
Musil, Alfred, Steyr, Austria-Hungary. Steam-generator.	373,783	Nov. 22	2267	608	41	922
Muslar, Nelson, West Boylston, Mass. Car-coupling.	368,777	Aug. 23	2076	550	40	871
Musser, Frank P., Beaver Falls, Pa. Thill-coupling.	374,846	Dec. 13	966	252	41	1244
Mussin, Oscar, Jr., New York, N. Y. Sharpener for pencils, &c.	369,652	Sept. 6	471	132	40	1124
Mussin, Oscar, Jr., New York, assignor to E. Faber, Port Richmond, N. Y. Eraser-holder.	368,159	Aug. 9	1182	316	40	684
Mussin, Oscar, Jr., New York, assignor to E. Faber, Port Richmond, N. Y. Pencil-holder.	368,160	Aug. 9	1183	316	40	684
Muther, Lorenz, and R. G. Woodward, assignors to Union Special Sewing Machine Company, Chicago, Ill. Trimmer for sewing-machines.	369,653	Sept. 6	473	132	40	1125
Mutter, Charles F., Buffalo, N. Y. Back for pictures.	358,058	Feb. 22	1910	504	38	800
Myers, Arriston H. (See Hodges and Myers.)						
Myers, B. Frank, Washington, Ill. Two-wheeled vehicle.	373,090	Nov. 15	1221	326	41	715
Myers, Charles H., Phelps, N. Y. Night-thermometer.	360,038	Mar. 29	2430	{ 617 618 }	{ 38 38 }	1387
Myers, Francis E. (See Myers, Philip A., assignor.)						
Myers, Harry A., Franklin, Pa. Vehicle-spring.	366,500	July 12	1005	274	40	200
Myers, Henry, Garnett, Kans. Windmill.	374,904	Dec. 13	1052	276	41	1261
Myers, Henry C., assignor of three-fifths to J. W. Cameron and C. H. Jackson, New York, N. Y. Cigar-wrapper-cutting machine.	375,502	Dec. 27	1891	495	41	1438
Myers, Henry M., Beaver Falls, Pa. Machine for splitting the tangs of shovel-blanks.	367,833	Aug. 9	725	195	40	597
Myers, Henry M., Beaver Falls, Pa. Machine for splitting the tangs and shaping the bodies of shovel-blanks.	367,834	Aug. 9	727	196	40	597
Myers, Henry M., Beaver Falls, Pa. Machine for splitting the tangs and forming the sockets of shovel-blanks.	369,360	Sept. 6	76	23, 24	40	1048
Myers, Henry S., New York, N. Y. Copying-pencil, &c.	358,746	Mar. 1	477	.....	38	992
Myers, Hiram, Springfield, Ohio. Horse hay-rake.	360,039	Mar. 29	2431	618	38	1388
Myers, Hiram, Springfield, Ohio. Horse hay-rake.	363,413	May 24	1889	497	39	852
Myers, Hiram, assignor to J. A. Blount, Springfield, Ohio. Rotary plow.	357,963	Feb. 15	1770	464	38	769
Myers, Ida L., Sherman, Tex. Combined handle and toilet-case.	367,224	July 26	2029	546	40	408
Myers, John. (See McGrew, William H., assignor.)						
Myers, John W. (See Fleharty, William F., assignor.)						
Myers, Lewis B., Fremont, Ohio. Toy sling.	363,755	May 24	2397	622	39	949
Myers, Lewis B., Fremont, Ohio. Toy sling.	363,756	May 24	2398	622	39	950
Myers, Michael F., Arbuckle, Indian Ter. Break-pin attachment for plows.	373,784	Nov. 22	2268	608	41	922
Myers, Millard, Greenville, Ohio. Planter.	360,815	Apr. 5	587	{ 153 154 }	{ 39 39 }	111
Myers, Philip A. (See Wise and Myers.)						
Myers, Philip A., Ashland, Ohio. Hay-carrier.	365,757	June 28	2289	595	39	1545
Myers, Philip A., assignor of one-half to F. E. Myers, Ashland, Ohio. Hay-sling attachment.	357,964	Feb. 15	1773	465	38	769
Myers, William A., and S. H. Altice, Bolivar, N. Y. Apparatus for manufacturing heating and illuminating gas.	361,641	Apr. 19	1786	462	39	351
Myers, William H., Reading, Pa., assignor of one-half to G. Kaufmann, New York, N. Y. Cigar-cutter.	357,560	Feb. 8	1188	312	38	652
Myers, William M., and A. Smith, Cosby, Mo. Clip for eveners.	366,862	July 19	1530	410	40	305
Mylander, Henry C., Oak Harbor, Ohio. Soldering-iron.	371,534	Oct. 11	1124	293	41	228
Myrick, Gilbert S., assignor to Goodell & Waters, Philadelphia, Pa. Wood-planing machine.	373,411	Nov. 15	1717	454	41	804
Mystic Oil Company. (See Krieser, J. Moritz, assignor.)						
Naab, William, Whittemore, Mich. Brake for sewing-machine motors.	375,184	Dec. 20	1475	386	41	1349
Nabal, Frederick, Allegheny, Pa. Rocking reclining-chair.	369,806	Sept. 13	674	183	40	1171
Nacke, Emil H., Dresden, Saxony, Germany. Paper-pulp or rag engine.	357,686	Feb. 15	1382	363	38	696
Nafis, George R., Brooklyn, N. Y. Cask or tub.	356,882	Feb. 1	201	56	38	458
Nagel, August C., R. H. Kaemp, and A. W. F. G. Linnenbrügge, assignors to Nagel & Kaemp, Hamburg, Germany. Dust-collector.	361,711	Apr. 26	1895	490	39	377
Nagel & Kaemp. (See Nagel, Kaemp, and Linnenbrügge, assignors.)						
Nagle, Israel E., Mount Joy, Pa. Bonnet-pin.	357,020	Feb. 1	386	104	38	494
Nagle, William. (See Zeller, Thomas B., assignor.)						
Nalley, Peter B., assignor of one-half to M. R. Reames, Majors, S. C. Grain-cradle.	358,783	Mar. 1	531	130	38	1002
Nance, Turner H., Talladega, Ala. Machine for gumming saws.	358,874	Mar. 8	684	170	38	1034
Nance, Turner H., Talladega, Ala. Gin-saw gummer and die therefor.	374,692	Dec. 13	743	{ 195 196 }	{ 41 41 }	1201
Naramore, Henry L., Sharon, Mass. Bevel.	371,210	Oct. 11	675	173	41	142
Nash, Charles E., South Hadley, Mass. Wheel-hoe.	367,835	Aug. 9	728	196	40	598
Nash, Henry R., assignor of one-half to F. W. Mueller, Milwaukee, Wis. Railway-car truck.	367,656	Aug. 2	444	123	40	535
Nash, Isaac, and T. Burley, New York, assignors to J. H. Swift, South Amenia, N. Y. Railway-signal.	368,680	Aug. 23	1935	514	40	846
Nash, John M., Hudson, Wis. Machine for perforating seat-frames.	363,164	May 17	1557	410	39	779
Nash, John M., Hudson, assignor to D. Jenkins, Sheboygan, Wis. Boring, shaping, and sawing machine.	355,550	Jan. 4	332	{ 88 89 90 }	{ 38 38 38 }	67
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Rotary water-meter. (Reissue).	10,806	Feb. 8	1197	{ 314 315 }	{ 38 38 }	654
Nash, William, Philadelphia, Pa. Temporary binder.	373,844	Nov. 29	2357	633	41	947

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Nason, Albert D. (See Olmstead and Nason.)						
Nason, Carleton W., New York, N. Y. Machine for inserting diaphragms in radiator-tubes.	362,103	May 3	75	23, 24	39	488
Nassau Manufacturing Company, W. L. (See Williams, George M., assignor.)						
Nassauer, Julius, assignor to himself and H. L. Shenfield, New York, N. Y. Cuspidor-holder	358,688	Mar. 1	401	96	38	978
Nast, William F., St. Louis, Mo. Obtaining ammonia from manure, &c.	374,618	Dec. 13	648	-----	41	1182
Natermann, Johann A., Hannovrisch-Munden, Prussia, Germany. Apparatus for capsulating bottles	356,883	Feb. 1	202	56	38	459
Nathan Manufacturing Company. (See Kaczander, Leopold, assignor.)						
Nathan Manufacturing Company. (See Kaczander and Ruddy, assignors.)						
Nathan, Scheyer, New York, N. Y. Combined belt and pocket	367,996	Aug. 9	965	259	40	643
National Cable Railway Company. (See Paine, William H., assignor.)						
National Cash Register Company. (See Maxwell, Walter H., assignor.) (Reissue.)						
National Cash Register Company. (See Patterson and Davis, assignors.)						
National Chemical and Fertilizer Company. (See Van Ruymbeke, Joseph, assignor.)						
National Cotton Seed Oil and Huller Company. (See Fee, William R., assignor.)						
National Gas Light and Fuel Company. (See Springer, Theodore G., assignor.)						
National Heeling Machine Company. (See Gardner, James B., assignor.)						
National Heeling Machine Company. (See Orr, Edward E., assignor.)						
National Heeling Machine Company. (See Soule, John W., assignor.)						
National Line and Cordage Machine Company. (See Dooley, Thomas B., assignor.)						
National Lubricator Company. (See Pyncheon, Edwin, assignor.)						
National Manufacturing Company. (See Brown, Thomas W., assignor.)						
National Manufacturing Company. (See Johnson, William J., assignor.)						
National Meter Company. (See Nash, Lewis H., assignor.) (Reissue.)						
National Needle Company. (See Berry, John, assignor.)						
National Safe and Lock Company. (See White, James, assignor.)						
National Spindle Step Company. (See Trask, Clarence S., assignor.) (Reissue.)						
National Tube Works Company. (See Bradeen, Hiram C., assignor.)						
National Tube Works Company. (See Dodge, Walter E., assignor.)						
National Tube Works Company. (See Paterson, Andrew, assignor.)						
National Tube Works Company. (See Shelton, Thomas, assignor.)						
National Typographic Company. (See Moore, Charles T., assignor.)						
National Typographic Company. (See White, John H., assignor.)						
Nations, Maurice, Camp Point, Ill. Washing-machine	370,079	Sept. 20	1108	294	40	1258
Natter, Jacob, assignor of one-half to S. Faith, Philadelphia, Pa. Apparatus for forcing beer	355,464	Jan. 4	220	59	38	44
Naudey, Nicolas, Cuse, Doubs, France. Sewing-machine	371,211	Oct. 11	676	{ 173 174 }	{ 41 }	142
Naul, Leah V. C. (See Abrams, George H., assignor.)						
Naumann, Gotthelf M., Corning, N. Y. Lawn-shears	362,104	May 3	78	24	39	488
Naylor, Esau T., San Francisco, Cal. Lamp-bracket	366,863	July 19	1531	410	40	305
Naylor, Joseph, Bloomfield, N. J. Machine for punching and trimming buttons	369,070	Aug. 30	2500	663	40	963
Naylor, Joseph, Bloomfield, N. J. Molding articles under pressure from plastic materials	372,758	Nov. 8	697	{ 192 193 }	{ 41 }	611
Neal, Adam S., Richmond, Tex. Car-coupling	359,092	Mar. 8	974	249	38	1090
Neal, Andrew J., Miles, assignor of seven-sixteenths to A. L. Bartholomew, Preston, and H. T. Milliken, Marion, Iowa. Fence-machine	374,550	Dec. 6	550	{ 143 144 145 }	{ 41 }	1153
Neal, Enoch E., Ossipee, N. H. Device for releasing check-reins	363,414	May 24	1891	497	39	852
Neal, Thomas H., Bellevue, Pa. Device for securing edged tools to their handles	374,369	Dec. 6	286	76	41	1100
Neale, Deodatus H. W. J. O. (See Everitt, Percival, assignor.)						
Nealy, Sid H., Washington, D. C., assignor of two-thirds to C. C. Hare, Kansas City, Mo., and L. Hutchins, Washington, D. C. Marine torpedo	358,471	Mar. 1	71	18	38	916
Neamann, Robert H., New York, N. Y. Station-indicator	375,186	Dec. 20	1476	{ 386 387 }	{ 41 }	1349
Nearing, Frank, Schuylkill Haven, Pa. Railway-plow	367,155	July 26	1926	520	40	388
Nearing, Frank, Jersey Shore, Pa. Excavating railway-truck	368,847	Aug. 23	2176	577	40	891
Neary, James P., Bridgeport, Conn. Valve	362,651	May 10	836	228	39	635
Nebergall, Jacob, and C. E. Schofield, Waller, Ohio. Tube-expander	372,081	Oct. 25	1951	503	41	405
Nebergall, James W. (See Elliott, Robert C., assignor.)						
Neeb, Charles D., Dexter, Mich. Cotton or hay press	359,515	Mar. 15	1585	406	38	1210
Needham, Franklin M. (See Macphail and Needham.)						
Needles, Charles W., Atlantic, Iowa. Seat-fastener	372,697	Nov. 8	610	166	41	596
Needles, Simgesmer, Sedalia, Mo. Sad-iron	367,225	July 26	2030	547	40	408
Neelands, William T., assignor of one-half to G. Weidenboerner, St. Mary's, Pa. Trace-buckle	356,154	Jan. 18	1240	328	38	252
Neeley, John W. (See Brown and Neeley.)						
Neely, John F., Renovo, Pa. Combined drawer-pull and label-case	372,559	Nov. 1	407	109	41	548
Neely, Thomas, et al. (See Lackner, Frederick, assignor.)						
Neely, William A., Lynn, Mass., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Feed-reversing mechanism for sewing-machines	374,551	Dec. 6	555	{ 145 146 }	{ 41 }	1154
Neeper, Alexander M., Pittsburg, Pa. Fire-alarm and police telegraph system	370,885	Oct. 4	204	53	41	40
Neff, Charles, Dallastown, Pa. Cigar-perforating machine	355,334	Jan. 4	58	16	38	13
Neff, Edward H., Rogersville, Ohio. Combined harrow and roller	372,759	Nov. 8	701	193	41	612
Neff, Francis M., Huron, Dak. Ter. Compositor's frame	362,394	May 3	448	124	39	562
Neff, John W., assignor of one-half to F. M. Teets, Buckhannon, W. Va. Washing-machine	363,667	May 24	2267	588	39	925
Neff, Joseph B., Burlington, Iowa, assignor of one-half to J. H. and T. K. Barley, Sedalia, Mo. Harrow	361,229	Apr. 12	1222	311	39	232
Neff, Samuel, Oshkosh, Wis. Wrecking-machine	363,535	May 24	2081	539	39	889
Negley, A. M., et al. (See Duff, John T., assignor.)						
Negroponte, Paul P., New York, N. Y. Weather-guard for doors	370,207	Sept. 20	1296	345	40	1293
Nehemias, Louis, New York, N. Y. Ear and mouth protector	366,788	July 19	1430	382	40	286
Neichter, John A., Orrville, Ohio. Car-brake	362,773	May 10	1018	{ 276 277 }	{ 39 }	669
Neifing, Julius, Crown Point, Ind. Fly-screen	372,484	Nov. 1	293	81	41	526
Neil, Kuhns & Co. (See Neil, William, assignor.)						
Neil, Moses H., et al. (See Eddy, Brice B., assignor.)						
Neil, William, assignor to Neil, Kuhns & Co., Chicago, Ill. Shipping-can	362,459	May 3	548	152	39	580
Neill, John H., Sinclairville, N. Y. Harness-buckle	373,245	Nov. 15	1465	386	41	758
Neiman, Eli H. (See Leber and Neiman.)						
Neisler, Oscar L., Indianapolis, Ind. Cultivator	356,289	Jan. 18	1420	375	38	287
Neisler, Oscar L., Indianapolis, Ind. Harrow attachment for cultivators	371,619	Oct. 18	1247	324	41	261
Neitzel, Herman and W. F., Concordia, Kans. Label-cabinet	362,306	May 3	325	90	39	537

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Neitzel, William F. (See Neitzel, Herman and W. F.)						
Nelles, Mathias, <i>et al.</i> (See Hewett, Francis M., assignor.)						
Nellis, Aaron J., Pittsburg, Pa. Fence-post	370,809	Oct. 4	80	21	41	17
Nellis, Francis D., Syracuse, N. Y. Tooth-pick	361,775	Apr. 26	1985	517	39	393
Nelms, Eugene A., Atlanta, Ga. Flat-iron heater	357,406	Feb. 8	953	251	38	607
Nelson, Alfred, Rockford, Ill. Steam-engine	355,335	Jan. 4	59	16, 17	38	13
Nelson, Alfred, Rockford, Ill. Machine for sewing looped fabrics	374,422	Dec. 6	354	{ 92 93 94 }	41	1114
Nelson, Alfred, Rockford, Ill. Mechanical movement	374,423	Dec. 6	359	94, 95	41	1115
Nelson, Andrew J., assignor of one-half to O. Erickson, Moline, Ill. Cultivator	359,460	Mar. 15	1489	{ 381 382 }	38	1193
Nelson, Benjamin F., Santa Maria, Cal. Churn	374,991	Dec. 20	1204	313	41	1297
Nelson, Charles H. (See Briggs, George H., assignor.)						
Nelson, Charles H. (See Emerson, Loender C., assignor.)						
Nelson, Charles S., and W. N. Colam, London, county of Middlesex, England. Displaying advertisements on cars	364,279	June 7	105	30	39	1109
Nelson, Christ, Toronto, Dak. Ter. Foot-warmer	364,950	June 14	1081	281	39	1297
Nelson, George A., Chicago, Ill. Folding bed	361,178	Apr. 12	1142	288	39	217
Nelson, J. Arthur. (See Stone, Florentine L., assignor.)						
Nelson, James S., Springfield, Ohio. Clothes-pin	360,460	Apr. 5	93	23	39	18
Nelson, John S., assignor of one-half to J. F. Picha, Minneapolis, Minn. Bob-sled	372,863	Nov. 8	879	235	41	642
Nelson, Robert H., Marinette, Wis. Horseshoe	356,007	Jan. 11	1016	267	38	206
Nelson, Thomas F., Cedar Rapids, Iowa. Railway route-abstract	363,907	May 31	2605	677	39	994
Nelson, W. D. (See Laufenburg, Michael N., assignor.)						
Nelson, William B., Richmond, Ind. Gate-closer	363,253	May 17	1672	438	39	802
Nelson, William D., San Francisco, Cal. Feed-water grease-extractor	366,864	July 19	1531	411	40	306
Nenninger, Robert F., Newark, N. J. Manufacturing coverings for floors, &c	358,059	Feb. 22	1911		38	800
Nenninger, Robert F., Newark, N. J. Covering for floors, &c	359,623	Mar. 22	1776	452	38	1261
Neppert, Francis, New York, N. Y. Piano-stool	360,169	Mar. 29	2658	671	38	1427
Neracher, William, Cleveland, Ohio. Automatic fire-extinguisher	361,179	Apr. 12	1143	289	39	217
Neracher, William, Cleveland, Ohio. Fire-extinguishing apparatus	372,167	Oct. 25	2067	529	41	427
Nesbet, William T., Schell City, Mo. Filter	363,668	May 24	2269	588	39	925
Nesbit, Edward P., Priory Road, county of Surrey, England. Treatment of hides and skins for tanning and other purposes	359,360	Mar. 15	1342		38	1165
Nesbitt, John D., New York, N. Y. Folding umbrella	364,951	June 14	1082	281	39	1297
Nesbitt, Josiah. (See Valiant and Nesbitt.)						
Nesbitt, Walter T., St. Louis, Mo. Screen for car-windows	373,474	Nov. 22	1811	482	41	835
Nesmith, Franklin E. (See Nesmith, Henry I., assignor.)						
Nesmith, Henry I., assignor of three-fourths to F. E. Nesmith, Rockland, Mass. Machine for scoring and cutting pasteboard	357,965	Feb. 15	1774	465	38	770
Nesmith, John W. (See Short and Nesmith.)						
Nettekoven, Daniel, Fort Shaw, Mont. Ter. Bow for musical instruments	361,441	Apr. 19	1506	388	39	296
Netter, Charles, New York, N. Y. Metallic railway-tie	372,864	Nov. 8	880	235	41	642
Netter, Sigmund, H. A. C. Lehmann, and P. W. M. Mattig, Berlin, Germany. Copying-press	374,748	Dec. 13	824	216	41	1217
Nettleton, Horace A., Seymour, Conn. Mechanism for forming threads	365,621	June 28	2081	543	39	1507
Neu, Christian. (See Stucker and Neu.)						
Neubrand, Joseph, Long Island City, N. Y. Aerial vessel	361,442	Apr. 19	1507	389	39	296
Neuer, William W., Wilkes-Barré, Pa. Transom-lifter	355,783	Jan. 11	675	176	38	141
Neuer, William W., Wilkes-Barré, Pa. Combined mantel and fire-place lining	370,155	Sept. 20	1220	324	40	1279
Neumann & Co., R. (See Isidor and Flocke, assignors.)						
Neumann & Co., R. (See Lichtenstein and Flocke, assignors.)						
Nevens, Frank W., Minneapolis, Minn. Cloth-cutting machine	372,926	Nov. 8	968	263	41	658
Nevens, George, Brunswick, Me. Track-clearer	370,555	Sept. 27	1807	{ 480 481 }	40	1396
Neville, Dorsey. (See O'Neil, John K., assignor.)						
Neville, Shepherd S., Township 23, Range 4 West, county of Sumter, Ala. Combination-plow	355,465	Jan. 4	221	59	38	45
Nevison, Thomas, Florence, Kans. Land-anchor	362,774	May 10	1019	277	39	670
New England Telephone and Telegraph Company. (See Farnham, Isaiah H., assignor.)						
New Haven Clock Company. (See Camp, Walter C., assignor.)						
New Haven Clock Company. (See Deuss, Hugo O., assignor.)						
New Haven Clock Company. (See Morgan, Frank E., assignor.)						
New Haven Clock Company. (See Noyes, Joseph G., assignor.)						
New Haven Clock Company. (See Wood, Frank B., assignor.)						
New Haven Nail Company. (See Miner, William W., assignor.)						
New Haven Patent Rolling Spring Bed Company. (See Oberndorfer, Emanuel, assignor.)						
New Haven Watch Company. (See Byam, Sewall T. J., assignor.)						
New Haven Watch Company. (See Potter, Albert H., assignor.)						
New Home Sewing Machine Company. (See Gray, George L., assignor.)						
New York and Brooklyn Coffin Company. (See Craig, Frank S., assignor.)						
New York Fifth Wheel Company. (See Browne and Turner, assignors.)						
New York Lead Seal and Press Company. (See Brooks, Franklin W., assignor.)						
New York Standard Watch Company. (See Clay and Hanson, assignors.)						
New York Standard Watch Company. (See Hastings, Walter W., assignor.)						
Newall, Robert S., Gateshead, county of Durham, England. Machine for making wire rope	366,422	July 12	904	244	40	159
Newark Filtering Company. (See Hyatt, John W., assignor.)						
Newark Machine Company. (See Herrberg, Charles J., assignor.)						
Newark Machine Company. (See Miller, Abraham, assignor.)						
Newark Paper Basket Company. (See Gillette, George H., assignor.)						
Newark Watch Case Material Company. (See Richardson, Willis S., assignor.)						
Newbold, John D. (See McCarter, Samuel, assignor.)						
Newby, Albert S., assignor of one-half to G. R. Millice, Topeka, Kans. Fire-box lining	359,935	Mar. 22	2259	568	38	1348
Newby, Albert S., assignor of one-half to G. R. Millice, Topeka, Kans. Grate	363,344	May 17	1796	470	39	826
Newby, William G., <i>et al.</i> (See McDill and Gaston, assignors.)						
Newcomb, Charles N., Omaha, Nebr. Hand-loom	373,246	Nov. 15	1465	{ 386 387 }	41	758
Newcomb, Cyrenus A. (See Howe, Solon G., assignor.)						
Newcomb, Cyrenus A., <i>et al.</i> (See Pungs, William A., assignor.)						
Newcomb, Edward M., Minneapolis, Minn. Lock-hinge	355,408	Jan. 4	155	40	38	31
Newcomb, Levi, Boston, Mass. Ore separator and amalgamator	364,844	June 14	927	245	39	1268
Newcomb, William W., Bradfordsville, Ky. Coffee-pot	362,105	May 3	80	24	39	488
Newell, Augustus W., Bradford, Pa. Cooking or heating attachment for steam or hot-water radiators	366,678	July 19	1284	{ 342 343 }	40	260

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Newell, Benjamin B., Cambridge, Mass. Eye-shade.....	371,348	Oct. 11	870	223	41	178
Newell & Co., Augustus. (See Zeidler, William C., assignor.)						
Newell, George E., Pawtucket, R. I. Hoisting-bucket.....	362,528	May 10	644	181	39	602
Newell, George F., Boston, Mass. Miter-clamp.....	371,349	Oct. 11	871	224	41	178
Newell, George H., Rochester, N. Y., assignor to A. H. Abbott, Chicago, Ill. Artist's stretcher or frame.....	366,865	July 19	1532	411	40	306
Newell, Isaiah, Haverhill, Mass. Driving-belt fastener.....	369,023	Aug. 30	2422	643	40	948
Newell, James L., Joliet, Ill. Spectacle-frame.....	365,090	June 21	1290	341	39	1345
Newell, James S. (See Brown, James O., assignor.)						
Newell, James W., trustee, <i>et al.</i> (See Rowell, Samuel C., assignor.)						
Newell, Olney, Denver, Colo. Stock-car.....	366,975	July 19	1671	449	40	332
Newell, Olney, Denver, Colo. Stock-car.....	375,562	Dec. 27	1979	515	41	1455
Newell, Roscius C., Three Rivers, Mass. Machine for winding yarn on shuttle-bobbins...	366,238	July 12	673	{ 182 183 }	{ 40 38 }	135
Newell, William H., Philadelphia, Pa. Flushing apparatus for water-closets.....	359,461	Mar. 15	1492	382	38	1193
Newhall, Frank B. (See Newhall, Levi B. and F. B.)						
Newhall, Levi B. and F. B., assignors of one-half to J. W. Ingalls & Son, Lynn, Mass. { Mechanism for cleaning boot or shoe uppers.....	368,105	Aug. 9	1110	{ 294 295 }	{ 40 38 }	670
Newhall, Walter L. (See Ramsdell, Emery A., assignor.)						
Newhoff, William F., assignor of one-half to G. Moebs, Detroit, Mich. Combined cigar- mold and lifter.....	375,713	Dec. 27	2198	572	41	1494
Newhouse, Neil M. (See Wheeler and Newhouse.)						
Newhouse, Theodore, Chicago, Ill. Piano sound-board.....	361,967	Apr. 26	2277	592	39	445
Newlove, Benjamin W., South Charleston, Ohio. Coffin-lowering attachment.....	360,239	Mar. 29	2759	700	38	1447
Newman, Edwin A., Washington, D. C., assignor of one-fourth to D. L. Snediker, Empo- ria, Kans. Anti-freezing apparatus for water-pipes.....	360,106	Mar. 29	2554	{ 649 650 }	{ 38 38 }	1410
Newman, Edwin A., Washington, D. C., assignor of one-fourth to D. L. Snediker, Empo- ria, Kans. Anti-freezing apparatus for water-pipes.....	360,107	Mar. 29	2558	{ 650 651 }	{ 38 38 }	1410
Newman, Edwin A., Washington, D. C., assignor of one-fourth to D. L. Snediker, Empo- ria, Kans. Apparatus for regulating the temperature and flow of water in pipes.....	372,232	Oct. 25	2171	{ 557 558 }	{ 41 41 }	448
Newman, Elwood H., assignor to himself and J. A. Githens, Asbury Park, N. J. Shoe at- tachment for car-trucks.....	373,247	Nov. 15	1466	387	41	758
Newman, Frank J., and J. S. Greene, Pueblo, Colo. Railway snow-excavator.....	357,498	Feb. 8	1081	286	38	632
Newman, Isaac, New Haven, Conn. Corset.....	360,323	Mar. 29	2873	731	38	1469
Newman, Isaac, New Haven, Conn. Button-fastening for garments.....	360,723	Apr. 5	465	118	39	86
Newman, Nelson, assignor of two-thirds to G. A. Sanders and S. J. Willett, Springfield, Ill. Magazine-hammer.....	362,224	May 3	231	67	39	517
Newman, Nelson, assignor of two-thirds to G. A. Sanders and S. J. Willett, Springfield, Ill. Machine for sharpening horseshoe-calks.....	364,280	June 7	107	31	39	1110
Newman, Nelson, assignor of two-thirds to G. A. Sanders and S. J. Willett, Springfield, Ill. Post-hole digger.....	370,810	Oct. 4	81	21	41	18
Newman, Samuel T., Danbury, Conn. Wire hat ring and stay.....	361,833	Apr. 26	2071	539	39	409
Newman, William C., Charlevoix, Mich. Bridge-guard.....	370,403	Sept. 27	1574	421	40	1354
Newsom, Philip E., <i>et al.</i> (See Reeves, Peter B., assignor.)						
Newsom, George, Leeds, county of York, England. Two-feed single-cylinder printing- machine.....	361,538	Apr. 19	1627	{ 421 422 }	{ 39 38 }	320
Newton, Abram W., South Haven, Mich. Fence-post.....	359,624	Mar. 22	1776	452	38	1261
Newton, Albert H. (See Newton, Andrew C., S., and A. H.)						
Newton, Allan R., <i>et al.</i> (See Hopkins, Edwin F., assignor.)						
Newton, Andrew C., Crescent, N. Y. Elevator.....	367,226	July 26	2030	547	40	408
Newton, Andrew C. and S., Crescent, and A. H. Newton, Cohoes, N. Y. Machine for sand- ing brick-molds.....	372,698	Nov. 8	611	{ 166 167 }	{ 41 41 }	596
Newton, Collins F., <i>et al.</i> (See Cook, Willard L., assignor.)						
Newton, Edward C., Little Rock, Ark. Telephone.....	375,456	Dec. 27	1833	479	41	1427
Newton, Emery E., and W. Fitzpatrick, Brazilton, Kans. Washing-machine.....	357,022	Feb. 1	387	{ 104 105 }	{ 38 38 }	494
Newton, Frank B., assignor to Hussey, Binns & Co., (limited,) Pittsburg, Pa. Handle- bending mold.....	367,543	Aug. 2	272	77	40	503
Newton, Franklin D. (See Endemann, Hermann, assignor.)						
Newton, Jeremiah L. (See Wilson and Newton.)						
Newton, Joseph W., Cranston, R. I. Car-coupling.....	363,297	May 17	1731	453	39	813
Newton, Robert, Providence, R. I. Temperature-controller.....	374,847	Dec. 13	967	253	41	1244
Newton, Sylvester. (See Newton, Andrew C., S., and A. H.)						
Newton, William C., and J. G. Ferrill, Batesville, Ark. Measuring-rack for goods in the piece.....	357,534	Feb. 8	1143	299	38	643
Newton, William H., Assumption, Ill. Grain-drill.....	357,850	Feb. 15	1620	421	38	741
Newville, Miles H., assignor of one-half to I. Wernert, Algona, Iowa. Farm-gate.....	372,760	Nov. 8	702	194	41	612
Ney, Jacob, assignor to Ney Manufacturing Company, Canton, Ohio. Hay-elevator.....	360,816	Apr. 5	590	{ 154 155 }	{ 39 39 }	111
Ney Manufacturing Company. (See Fisher, Henry, assignor.)						
Ney Manufacturing Company. (See Murchey and Luttrell, assignors.)						
Ney Manufacturing Company. (See Ney, Joseph, assignor.)						
Nice, John E., Flora, Ind. Vehicle-wheel.....	369,202	Aug. 30	2664	708	40	996
Nichol, John C., Montreal, Quebec, Canada. Axle-lubricator.....	370,811	Oct. 4	81	22	41	18
Nicholas, Alexander H., Bronson, Kans. Step.....	368,896	Aug. 23	2239	596	40	904
Nicholas, Benjamin F., Renova, Pa. Supporting-rest for invalids.....	374,804	Dec. 13	908	237	41	1233
Nicholas, William H. (See Younce, Shellabarger, and Nicholas.)						
Nicholls, Charles C. (See Wood and Nicholls.)						
Nicholls, Parker P. (See Vanpelt and Nicholls.)						
Nichols, Aaron S., Chicago, Ill. Box.....	367,836	Aug. 9	729	197	40	598
Nichols, Andrew J., Ozark, Ark. Dry-goods exhibitor.....	369,464	Sept. 6	212	59, 60	40	1076
Nichols, B. Frank. (See Jewett and Nichols.)						
Nichols, David G., Cochran, Ga. Medical compound for asthma, &c.....	374,491	Dec. 6	459	.....	41	1134
Nichols, Devillo J., and W. H. Shepard, Three Rivers, Mich. Slippery-elm tent.....	375,185	Dec. 20	1476	386	41	1349
Nichols, Edward J., assignor to J. W. Henney, Freeport, Ill. Stock-salter.....	368,161	Aug. 9	1184	316	40	684
Nichols, Edwin C. (See Flagg, Eli W., assignor.)						
Nichols, Emanuel, Unadilla, and D. W. Clark, Grass Lake, Mich. Spring-motor.....	355,621	Jan. 4	423	{ 116 117 }	{ 38 38 }	84
Nichols, Emory I., San Francisco, Cal. Copying-paper.....	359,170	Mar. 8	1071	.....	38	1109
Nichols, Fred H., Lynn, Mass. Sleeve-stay.....	375,503	Dec. 27	1892	495	41	1439
Nichols, George D., New Canaan, Conn. Corset.....	359,225	Mar. 8	1153	299	38	1123
Nichols, George D., New Canaan, Conn. Corset-cover and bustle.....	359,807	Mar. 22	2052	519	38	1311
Nichols, George D., New Canaan, Conn. Corset.....	367,113	July 26	1862	503	40	376
Nichols, George E., assignor of one-half to E. J. Brown, Sioux Falls, Dak. Ter. Snow-ex- cavator and automatic dumper.....	367,837	Aug. 9	730	197	40	598

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Nichols, George H., <i>et al.</i> (See Herreshoff, John B. F., assignor.)						
Nichols, George P., and M. Coombs, Jr., Youngstown, Ohio. Apparatus for suspending electric lights	360,040	Mar. 29	2433	{ 618 619 }	{ 38 }	1388
Nichols, Gorton W., <i>et al.</i> (See Wallis, Harry E., assignor.)						
Nichols, Harrison P., Maywood, Ill. Rotary harrow	359,626	Mar. 22	1777	453	38	1261
Nichols, Howard P., Reading, Mass. Cleaning-brush, &c.	358,875	Mar. 8	686	170	38	1035
Nichols, J. Benton, Detroit, Mich. Safety-pin	361,886	Apr. 26	2155	559	39	424
Nichols, J. Clinton, Putnam, Conn. Steam-generator	365,934	July 5	253	67	40	49
Nichols, James. (See Baldwin, Chester M., assignor.)						
Nichols, John, Baldwinsville, assignor to P. Derby & Co., Gardner, Mass. Combined chair and carriage	375,300	Dec. 20	1622	424	41	1378
Nichols, John F., assignor of one-third to T. B. Bryan, Chicago, Ill. Advertising-vehicle	373,845	Nov. 29	2358	{ 633 634 }	{ 41 }	948
Nichols, John H., assignor of one-half to J. E. Baugh, Elkton, Tenn. Hitching device	361,230	Apr. 12	1223	311	39	232
Nichols, Leonard B., <i>et al.</i> (See Thomas, Chauncey, assignor.)						
Nichols, Maria L. (See Storer, Maria L.)						
Nichols, Shepard & Company. (See Brown, Edmund D., assignor.)						
Nichols, Walter S., Lowell, Ind. Hay-loader	365,194	June 21	1437	379	39	1372
Nichols, William H., <i>et al.</i> (See Herreshoff, John B. F., assignor.)						
Nicholson, Charles, Philadelphia, Pa., assignor to Nicholson Storage and Spring Motor Company, Washington, D. C. Combined hand and spring motor	357,222	Feb. 8	706	182	38	561
Nicholson, Charles, Philadelphia, Pa., assignor to Nicholson Storage and Spring Motor Company, Washington, D. C. Driving mechanism for sewing-machines	357,223	Feb. 8	708	182	38	561
Nicholson, Charles W., Assamoosick, Va. Peanut-cleaner	369,071	Aug. 30	2502	663	40	963
Nicholson, Charles W., Assamoosick, Va. Peanut-stripper	370,278	Sept. 20	1384	{ 371 372 }	{ 40 }	1310
Nicholson, Jacob H., Oxford, Md. Sled	366,239	July 12	675	183	40	135
Nicholson, John D. (See McElroy and Nicholson.)						
Nicholson Storage and Spring Motor Company. (See Nicholson, Charles, assignor.)						
Nichter, Frank. (See Bartl and Nichter.)						
Nickel, Adam. (See Wessell, Nickel, and Gross.)						
Nickel, David. (See Taxis and Nickel.)						
Nickel, David, and C. Zattan, Morris, assignors to Ohio Butt Company, Chicago, Ill. Door-hanger	359,226	Mar. 8	1154	300	38	1123
Nickerson, Amos, Somerville, Mass. Hammock-spreader	369,546	Sept. 6	318	88	40	1095
Nickerson, Hiram B., New Bedford, Mass. Stringing pianos	359,808	Mar. 22	2053	520	38	1311
Nickerson, William E., Cambridge, Mass. Elevator attachment	357,938	Feb. 15	1735	453	38	762
Nickerson, William E., Cambridge, Mass. Speed-governor for elevators, &c.	374,080	Nov. 29	2698	724	41	1014
Nicklas, William, and E. Beyer, Newark, N. J. Device for venting barrels	371,092	Oct. 4	511	129	41	101
Nickum, George S., assignor of one-half to E. F. Stoddard, Dayton, Ohio. Electrical call-box	356,418	Jan. 18	1602	421	38	320
Nicol, Robert B., Milford, Iowa. Attachment for stereotype-blocks	359,625	Mar. 22	1777	452	38	1261
Nicolescu, George, San Francisco, Cal. Combined try-square, surface-gage, and level	369,547	Sept. 6	318	88	40	1095
Nicolet, Victor, <i>et al.</i> (See Bonnet, Antoine, assignor.)						
Niehaus, Charles B., assignor to F. Mesker, St. Louis, Mo. Sheet-metal or paper ceiling	358,405	Feb. 22	2391	636	38	890
Niehoff, William, Venedy, Ill. Tree-puller	359,884	Mar. 22	2179	549	38	1333
Nier, William, Kansas City, Mo. Conduit for cable or electric railways	374,315	Dec. 6	209	55	41	1085
Nieth, James E., and C. L. Thomas, Independence, Iowa. Mower	357,330	Feb. 8	848	221	38	587
Nifenecker, Eugene, assignor to himself and H. A. Love, West New Brighton, N. Y. Attachment for cooking-stoves	356,260	Jan. 18	1373	363	38	279
Niggemann, Albert, St. Louis, Mo. Geometrical game or puzzle	368,484	Aug. 16	1661	443	40	784
Nightingale, Samuel C., <i>et al.</i> (See Gerald, Robert F., assignor.)						
Niles, Cleveland P., assignor of one-half to A. W. Movius, Big Stone City, Dak. Ter. Apparatus for opening and closing doors or gates	374,552	Dec. 6	557	146	41	1154
Niles, Milton C., Chicago, Ill. Latch	356,155	Jan. 18	1241	328	38	253
Niles, Sidney S. (See Amos, George W., assignor.)						
Niles, Sinclair D. G., Trigon, Tenn. Nail and fire tongs	367,227	July 26	2032	547	40	408
Niles Tool Works. (See Gordon, Alexander, assignor.)						
Niles Tool Works. (See Reiss, George T., assignor.)						
Niles Tool Works. (See See, James W., assignor.)						
Nimmo, George, Newark, N. J. Feeder for ingot-molds	357,286	Feb. 8	790	205	38	577
Nimmo, John W. (See King, Corydon C., assignor.)						
Nishwitz, Frederick, Millington, N. J. Harrow	360,614	Apr. 5	319	78, 79	39	61
Nitsche, John E., and A. Kowalewsky, Waco, Tex. Combined saw-buck and drag-saw	359,936	Mar. 22	2260	568	38	1348
Nix, Robert, New Ulm, Minn. Device for teaching music	367,156	July 26	1927	{ 520 521 }	{ 40 }	388
Nixon, Edward S., near Chattanooga, Tenn. Saw-gage	375,187	Dec. 20	1479	387	41	1350
Nixon, George, Sandyville, Ohio. Stirrup	374,992	Dec. 20	1206	314	41	1297
Nixon, Moses C., Peru, Ind. Baling-press	372,636	Nov. 1	519	{ 142 143 }	{ 41 }	569
Nixon, Robert, <i>et al.</i> (See Crandall, Jason W., assignor.)						
Nixon, Robert, Cortland, N. Y. Manufacture of rakes	368,681	Aug. 23	1937	514	40	847
Nixson, Marian, Windsor, England. Curtain-ring	375,563	Dec. 27	1980	515	41	1455
Noble, Andrew, assignor to W. G. Armstrong, Mitchell & Co., (limited,) Newcastle-upon-Tyne, England. Apparatus for washing guns	368,963	Aug. 30	2344	622	40	932
Noble, Andrew, assignor to W. G. Armstrong, Mitchell & Co., (limited,) Newcastle-upon-Tyne, England. Fuse or firing mechanism for projectiles	372,699	Nov. 8	614	167	41	596
Noble, Andrew, assignor to W. G. Armstrong, Mitchell & Co., (limited,) Newcastle-upon-Tyne, England. Fuse for projectiles	372,814	Nov. 8	811	217	41	630
Noble, Andrew, and C. H. Murray, assignors to W. G. Armstrong, Mitchell & Co., (limited,) The Elswick Works, Newcastle-upon-Tyne, England. Automatic sight for turret-guns	370,156	Sept. 20	1221	{ 324 325 }	{ 40 }	1280
Noble, Charles M., Anniston, Ala. Electric lamp	362,852	May 10	1110	300	39	687
Noble, Clarence B., Cleveland, Ohio. Arc light	374,129	Nov. 29	2762	742	41	1026
Noble, George H., Lowell, Mass. Sash-holder	355,835	Jan. 11	756	199	38	154
Noble, Henry A., Philadelphia, Pa. Pump	370,556	Sept. 27	1809	481	40	1396
Noble, J. M., <i>et al.</i> (See Cline, George J., assignor.)						
Noble, James, Jr. (See Mullen and Noble.)						
Noble, Jay, St. Louis, Mo. Plug-tobacco machine	355,409	Jan. 4	156	40, 41	38	31
Noble, Jay, St. Louis, Mo. Power-driven street-car	369,610	Sept. 6	412	115	40	1113
Noble, Jay, assignor of one-half to J. A. Gomersell, St. Louis, Mo. Ratchet-drill	368,162	Aug. 9	1185	316	40	684
Noble, Kenneth D., Heensburg, county of Dumbarton, Scotland. Valve for steam-engines	367,657	Aug. 2	445	123	40	536
Noble, L. H., <i>et al.</i> (See Cline, George J., assignor.)						
Noble, Noah D., Carroll, Iowa. Rein-guide	369,465	Sept. 6	213	60	40	1073

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Noel, John C., and G. Parton, assignors of one-third to W. H. Walker, Longmont, Colo. Combined wheeled harrow and seeder	369,072	Aug. 30	2503	664	40	963
Noell, Charles H. (See Dailey and Noell.)						
Noelte, Wilhelm, Hoboken, N. J. Latch	372,815	Nov. 8	813	217	41	630
Nolen, George W., assignor of one-half to R. S. Bennett, Minneapolis, Minn. Combined switch-stand and semaphore	368,604	Aug. 23	1824	485	40	825
Nolen, Robert, Colorado, Tex., R. W. Bishop, and J. Waltemeyer, Washington, D. C.; said Bishop and Waltemeyer assignors to said Nolen. Saw-filing machine	357,091	Feb. 1	494	131	38	513
Nolf, Jacob, New Maysville, Pa. Stump-extractor	365,699	June 28	2195	573	39	1528
Noll, Otto, assignor to T. Schiller and P. Brennicke, Berlin, Germany. Apparatus for stopping steam-engines	370,644	Sept. 27	1942	514	40	1422
Noll, Otto, assignor to P. Brennicke & Co., Berlin, Germany. Cut-off valve	375,090	Dec. 20	1345	351	41	1323
Nolte, August, Dundee, Ill. Fastening for gloves or shoes	357,287	Feb. 8	791	206	38	577
Norcross, Andrew D., assignor of two-thirds to L. L. and E. H. Clark, Royalston, Mass. Shedding mechanism for looms	373,941	Nov. 29	2490	668	41	973
Norcross, Franklin A., Lorain, Ohio. Fog-signal	361,776	Apr. 26	1985	517	39	393
Norcross, William M., assignor to Cortright Metal Roofing Company, Philadelphia, Pa. Die for metallic roofing-plates	369,024	Aug. 30	2423	643	40	948
Nordberg, Bruno V., assignor of one-half to F. L. Horneffer, Milwaukee, Wis. Safety-stop for governors	369,611	Sept. 6	415	116	40	1114
Nordberg, Bruno V., assignor of one-half to F. L. Horneffer, Milwaukee, Wis. Cut-off gear for engines	369,612	Sept. 6	416	116 117	40	1114
Nordblom, Ernst, assignor to R. Hoe & Co., New York, N. Y. Delivery apparatus for printing-machines	364,625	June 7	582	156 157	39	1197
Nordenfelt Guns and Ammunition Company. (See Jones, Henry W., assignor.)						
Nordenfelt Guns and Ammunition Company. (See Nordenfelt, Thorsten, assignor.)						
Nordenfelt, Thorsten, Westminster, England. Obtaining albumen from blood	357,331	Feb. 8	849	.....	38	587
Nordenfelt, Thorsten, Westminster, England. Portable parapet-mounting for guns	362,900	May 10	1183	316	39	700
Nordenfelt, Thorsten, assignor to Nordenfelt Guns and Ammunition Company, (limited,) Westminster, England. Gun-mounting	360,537	Apr. 5	209	51, 52	39	41
Nordenfelt, Thorsten, assignor to Nordenfelt Guns and Ammunition Company, (limited,) Westminster, England. Carriage for machine-guns	364,366	June 7	217	61	39	1130
Nordenfelt, Thorsten, assignor to Nordenfelt Guns and Ammunition Company, (limited,) Westminster, England. Gun-mounting for field-artillery	372,323	Nov. 1	57	17, 18	41	482
Nordenfelt, Thorsten, Westminster, England, and V. A. Meurling, Christianstad, Sweden. Manufacture of gunpowder	362,899	May 10	1182	.....	39	700
Nordmann, Prosper. (See Aubert, Georges, assignor.)						
Nordmann, Prosper. (See Morlet, Charles, assignor.)						
Nordstedt, Johan A., Sundbyberg, Sweden. Machine for cutting worm-wheels	373,192	Nov. 15	1382	366	41	743
Nordyke, Charles E., assignor of two-thirds to W. H. Bent and J. T. Hutchens, Wabash, Ind. Fly-net for the legs of horses	359,937	Mar. 22	2261	568	38	1348
Norell, Frank, Big Rapids, Mich. Pilot or cow-catcher for locomotives	375,457	Dec. 27	1834	480	41	1427
Norgrave, George B., Philadelphia, Pa., assignor of one-half to D. Goff and J. L. Smith, Millville, N. J. Sprocket-wheel	366,600	July 12	1168	313	40	231
Norling, Andrus. (See Thurber and Norling.)						
Norrington, Henry H., West Bay City, Mich. Check-punching machine	362,586	May 10	727	202	39	616
Norris, Clinton F., Newton, Kans. Ironing apparatus	358,060	Feb. 22	1912	505	38	800
Norris, Henry D., et al. (See Shaw, Charles H., assignor.)						
Norris, James, Creston, Iowa, assignor of one-half to M. Turner, Lewistown, Ill. Corn-planter	365,700	June 28	2196	573 574	39	1528
Norris, John W. (See Davis, Charles E., assignor.)						
Norris, Lewis C., Bay City, Mich. Book-holder	361,316	Apr. 19	1337	343	39	265
Norris, William, Toronto, Ontario, Canada. Hop-trellis	355,410	Jan. 4	158	41	38	32
Norris, William, Toronto, Ontario, Canada. Grape-trellis	362,225	May 3	232	67	39	518
Norris, William E., San Francisco, Cal. Reducing and melting magnetic oxide of iron	369,361	Sept. 6	77	24	40	1048
Norris, William M., Princeton, N. J. Bating	365,017	June 14	1171	.....	39	1313
North, Aaron E., and W. K. Sheldon, West Rutland, Vt. Stone-sawing machine	373,300	Nov. 15	1544	408	41	772
North & Co., O. B. (See Smith, Charles H., assignor.)						
North & Company, O. B. (See Smith, Charles H., assignor.)						
North, Frank. (See Bennett, Cyrus D., assignor.)						
North, James E., Penn Yan, N. Y. Washing-machine	360,461	Apr. 5	94	24	39	18
North, John, Middletown, Conn. Lifting-jack	361,022	Apr. 12	908	229 230	39	172
North, John, Middletown, Conn., assignor to W. R. Plum, trustee, Chicago, Ill. Machine for making spikes	371,472	Oct. 11	1038	270	41	211
North, John P., et al. (See Graham and Yost, assignors.)						
North & Judd Manufacturing Company. (See Herrick, Frank J., assignor.)						
North, Owen E., et al. (See Graham and Yost, assignors.)						
North Wayne Tool Company. (See Bartlett, Marcus M., assignor.)						
North, William C., Cleveland, Ohio. Broiler	366,679	July 19	1285	343	40	260
North, William C., Cleveland, Ohio. Vapor-stove	368,303	Aug. 16	1408	372	40	735
North, William F., assignor of one-half to S. P. Coffan, Philadelphia, Pa. Water-closet	362,034	Apr. 26	2368	617	39	461
Northall, William H., assignor to Bernardin Bottle Cap Company, Evansville, Ind. Machine for forming sheet-metal bottle-caps	374,553	Dec. 6	558	146 147	41	1154
Northrop, C. P. (See Rood, Theodore, assignor.)						
Northrop, Frank W., White Pigeon, Mich. Bait-pail	372,233	Oct. 25	2173	558	41	448
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Spindle-support for spinning-machines	355,656	Jan. 4	488	130	38	95
Northrop, S. & W. H. (See Strickland, James R., assignor.)						
Northrup, William S. (See Polmateer, William A., assignor.)						
Northrup, Benjamin, assignor to C. Bantley, Elmira, N. Y. Positive shuttle-motion for looms	367,838	Aug. 9	732	197	40	599
Northrup, William G., Minneapolis, Minn. Harness-board for Jacquard looms	373,151	Nov. 15	1321	350	41	732
Northwestern Wire Mattress Company. (See Seymour, William S., assignor.)						
Northwood, Harry, Bridgewater, Pa. Glass pressing and ornamenting apparatus	369,296	Aug. 30	2791	744	40	1021
Norton, Benjamin F., Manchester, N. H. Lifting-jack	356,395	Jan. 18	1572	414	38	315
Norton, Edward Q., Mobile, Ala., assignor to Zadek & Norton Piano-Forte and Organ Company, of Alabama. Upright-piano-forte action	375,327	Dec. 20	1661	436	41	1386
Norton, Edwin, et al. (See Hodgson, John G., assignor.)						
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Sheet-metal can	362,991	May 17	1314	348	39	731
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Sheet-metal can, cap, head, or blank	364,662	June 14	636	171	39	1216
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Manufactured solder	364,663	June 14	637	171	39	1216
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Prepared solder for vent-holes	364,664	June 14	638	171	39	1216

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Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Vent-protector for cans	364,665	June 14	639	171	39	1216
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Can-cap-soldering machine	365,316	June 21	1613	{ 420 421 }	{ 39 }	1404
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Sheet-metal can and manufacturing the same	370,404	Sept. 27	1575	421	40	1354
Norton, Edwin D., Yorkshire Centre, N. Y. Sectional ladder	359,685	Mar. 22	1855	472	38	1276
Norton, Henry C., Brooklyn, N. Y. Water-proof garment	367,921	Aug. 9	850	230	40	622
Norton, Henry C., Brooklyn, N. Y. Water-proof garment	375,504	Dec. 27	1892	495	41	1439
Norton, John, and S. Briggs, McKeesport, assignors to E. C. Converse, Allegheny City, Pa. Pipe-joint for gas-mains	371,782	Oct. 18	1486	384	41	311
Norton, John B., Philadelphia, Pa. Belt-fastener	372,427	Nov. 1	213	59	41	510
Norton, Joshua, Jr., Dubuque, Iowa. Drying flour	357,092	Feb. 1	496	131	38	514
Norton, Oliver W., et al. (See Hodgson, John G., assignor.)						
Norton, Oliver W. (See Norton, Edwin, assignor.)						
Norvotnick, Peter, Bonn, Prussia, Germany. Device for head-washing and shampooing	367,157	July 26	1929	521	40	389
Norwalk Lock Company. (See Hoffman, Henry, Jr., assignor.)						
Norwood, Romulus. (See Melvin, Jerome B., assignor.)						
Norwood, Samuel, West Greene, Ala. Curry-comb	366,019	July 5	376	101	40	70
Nosker, Orren G., Sheldon, Ill. Spittoon-lifter	367,722	Aug. 2	563	154	40	557
Nosworthy, James, Belleville, Ontario, Canada. Cartridge-belt	356,493	Jan. 25	1716	448	38	351
Nott, Henry W., Cameron, Tex. Axle-skein	370,080	Sept. 20	1109	294	40	1258
Nottingham, Lloyd, Norfolk, Va. Boot or shoe stretcher	357,131	Feb. 1	579	149	38	527
Nottingham, Lloyd, assignor to T. J. Nottingham, Norfolk, Va. Boot or shoe stretcher	374,805	Dec. 13	909	238	41	1233
Nottingham, Thomas J. (See Nottingham, Lloyd, assignor.)						
Nourse, Franklin. (See Hanson and Nourse.)						
Nourse, Franklin, and C. L. Foss, Saco, Me. Yarn-winding machinery	367,922	Aug. 9	851	{ 230 231 }	{ 40 }	622
Nourse, Lucian R., Chicago, Ill. Grinding or polishing wheel	358,472	Mar. 1	72	18	38	917
Novelty Manufacturing Company. (See Meeker, Edwin C., assignor.)						
Novelty Manufacturing Company. (See Rowe, William N., assignor.)						
Nowotny, John S., assignor of one-third to J. McCarthy, Cincinnati, Ohio. Scrub-brush attachment	371,515	Oct. 11	1101	287	41	224
Noxon, James and T. H., Ingersoll, Ontario, Canada. Spring locking device for drill-hoes and cultivator-teeth	363,757	May 24	2399	622	39	950
Noxon, James and T. H., Ingersoll, Ontario, Canada. Seeding-machine	363,758	May 24	2400	623	39	950
Noxon, James and T. H., Ingersoll, Ontario, Canada. Spring locking device for drill-hoes and cultivator-teeth	363,759	May 24	2401	623	39	951
Noxon, Thomas H. (See Noxon, James and T. H.)						
Noyes, Bernice J., Boston, Mass., assignor to Municipal Signal Company, Portsmouth, N. H. Municipal signal apparatus	359,686	Mar. 22	1856	{ 472 473 }	{ 38 }	1277
Noyes, Bernice J., Boston, Mass., assignor to Municipal Signal Company, Portsmouth, N. H. Municipal signal apparatus	359,687	Mar. 22	1859	473	38	1277
Noyes, Bernice J., Boston, Mass., assignor to Municipal Signal Company, Portsmouth, N. H. Municipal signal apparatus	359,688	Mar. 22	1863	473	38	1278
Noyes, Bernice J., Boston, Mass., assignor to Municipal Signal Company, Portsmouth, N. H. Individual call for municipal telegraph systems	359,689	Mar. 22	1865	474	38	1278
Noyes, Charles W., Kalamazoo, Mich. Two-wheeled vehicle	356,494	Jan. 25	1717	448	38	351
Noyes, Charles W., Kalamazoo, Mich. Two-wheeled vehicle	356,495	Jan. 25	1717	449	38	351
Noyes, Charles W., Kalamazoo, Mich. Leg-spreader for horses	358,818	Mar. 1	585	145	38	1012
Noyes, Charles W., Kalamazoo, Mich. Two-wheeled vehicle	361,317	Apr. 19	1338	343	39	265
Noyes, E. I. K. (See Noyes, Lewis W., assignor.)						
Noyes, Harrison H., Pleasantville, Pa. Device for operating the pumps of a group of oil-wells	366,125	July 5	516	139	40	98
Noyes, Joseph G., assignor to New Haven Clock Company, New York, N. Y. Electric call-bell	369,808	Sept. 13	677	183	40	1171
Noyes, Joseph P., assignor to C. B. Fairchild and R. H. Meagley, Binghamton, N. Y. Pneumatic clutch	369,807	Sept. 13	675	183	40	1171
Noyes, Joseph P., assignor to C. B. Fairchild and R. H. Meagley, Binghamton, N. Y. Differential gear for cable railways	370,490	Sept. 27	1710	{ 453 454 }	{ 40 }	1378
Noyes, La Verne W. (See Perry, Thomas O., assignor.)						
Noyes, La Verne W., Chicago, Ill. Harvesting machine	358,061	Feb. 22	1912	{ 505 506 }	{ 38 }	800
Noyes, La Verne W., Chicago, Ill. Grain-harvester	358,062	Feb. 22	1916	506	38	801
Noyes, La Verne W., Chicago, Ill. Grain-harvester	358,063	Feb. 22	1919	507	38	802
Noyes, La Verne W., Chicago, Ill. Harvester-rake	358,064	Feb. 22	1920	507	38	802
Noyes, La Verne W., Chicago, Ill. Grain-binder	366,240	July 12	676	183	40	136
Noyes, La Verne W., Chicago, Ill. Self-binding harvester	366,501	July 12	1006	{ 275 276 }	{ 40 }	200
Noyes, La Verne W., Chicago, Ill. Grain-binder	366,502	July 12	1012	{ 276 277 }	{ 40 }	201
Noyes, La Verne W., Chicago, Ill. Bundle-carrier for grain-harvesters	366,601	July 12	1169	314	40	231
Noyes, La Verne W., Chicago, Ill. Book-holder	366,680	July 19	1285	343	40	260
Noyes, Lewis W., East Pepperell, assignor to E. I. K. Noyes, Cambridge, Mass. Card-board-manufacturing machine	374,848	Dec. 13	968	253	41	1244
Noyes, Orlando S., Philadelphia, Pa. Pantaloon-stretcher	361,834	Apr. 26	2072	539	39	409
Nuckols, Aurelius B., Hampton, Va. Plow attachment	371,516	Oct. 11	1102	287	41	224
Nudd, Amos, Chicago, Ill. Fire-escape	362,173	May 3	164	48	39	505
Nuding, John, Kloeppel, Dak. Ter. Animal-trap	366,866	July 19	1533	411	40	306
Nuebling, John, assignor to himself and T. J. Groves, Evansville, Ind. Ink-fountain for chromatic-printing machines	358,473	Mar. 1	74	19	38	917
Nuessle, Fredrick, Brooklyn, N. Y. Handle for surgical implements	361,315	Apr. 19	1336	343	39	265
Null, William B., Evansville, Mo. Hay-drag	359,462	Mar. 15	1492	382	38	1194
Nulty, James T., Philadelphia, assignor of five-eighths to J. Messick and T. J. Crumie, Chester, Pa. Railway-rail and conduit for electric wires, &c.	372,273	Oct. 25	2228	571	41	458
Nurnberger, Joseph, Charleston, W. Va. Automatic boiler gage and alarm	358,289	Feb. 22	2237	590	38	861
Nurre, John. (See Smith and Nurre.)						
Nussbaumer, August F. (See Schumacher, John C., assignor.)						
Nute, John C. (See Weston, Charles H., assignor.)						
Nutter, Walter B., Scarborough, assignor of one-half to F. C. Bridgham, Cape Elizabeth, Me. Can-opener	373,412	Nov. 15	1718	454	41	805
Nutting, Abel, Quincy, Mass. Coupling-tool	369,731	Sept. 13	575	156	40	1153
Nutting, Adrian, Greenville, Tex. Car-coupling	355,657	Jan. 4	489	130	38	96
Nutting, Clarence L., Boston, Mass. Button	371,620	Oct. 18	1249	325	41	262

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Nutting, Harvey S. (See Penrose, Nutting, and Smith.)						
Nutting, Thomas B., assignor to himself and T. B. Nutting, Jr., Morristown, N. J. Car-coupling	372,082	Oct. 25	1952	503	41	405
Nye, Benjamin F., Indianapolis, Ind. Vehicle-top	364,034	May 31	2800	725	39	1032
Nye, Frederick W., Columbus, Ohio. Extension-table	355,945	Jan. 11	930	243	38	189
Nye, George H., Chicago, Ill., assignor to Nye Steam Vacuum Pump Company, of Illinois. Steam vacuum-pump	360,781	Apr. 5	544	141	39	102
Nye, John C., Falmouth, Mass. Seed-planter	361,074	Apr. 12	980	{ 247 } 248	{ 39 }	187
Nye Steam Vacuum Pump Company. (See Nye, George H., assignor.)						
Nygard, Alfred G., San Francisco, Cal. Drip-cup for umbrellas	359,981	Mar. 22	2330	586	38	1362
Nygard, Alfred G., San Francisco, Cal. Pocket-frame clamp for pool-tables	365,849	July 5	128	34	40	26
Nygaard, Christian, Oshkosh, Wis. Cant-hook	374,877	Dec. 13	1011	264	41	1252
Nygaard, Christian, Oshkosh, Wis. Cant-hook	374,878	Dec. 13	1012	265	41	1252
Nysewander, David J., Owosso, Mich. Pump	359,516	Mar. 15	1587	407	38	1210
Nyswonger, Elijah, Hanford, Cal. Combined lock and latch	364,727	June 14	730	195	39	1234
O'Brien, Alfred J., et al. (See Willis, Edward C., assignor.)						
O'Brien, David, assignor of two-thirds to J. O'Brien and E. E. Weaver, Philadelphia, Pa. Lightning-arrester for protecting oil-tanks	367,435	Aug. 2	105	29	40	471
O'Brien, George W. (See Gentry and O'Brien.)						
O'Brien, James P., New York, N. Y. Sign	360,900	Apr. 12	717	190	39	140
O'Brien, James W., et al. (See Seaver, George F., assignor.)						
O'Brien, John, et al. (See O'Brien, David, assignor.)						
O'Brien, John, St. Louis, Mo. Combined flanging-machine and drill-press	362,308	May 3	330	90, 91	39	538
O'Brien, John M., Gloucester, Mass. Life-rope for vessels' booms	359,028	Mar. 8	897	228	38	1074
O'Brien, Martin H., et al. (See Woodward, William D., assignor.)						
O'Brien, Philip J. and W. J., Peoria, Ill. Incasement for air-heaters	358,065	Feb. 22	1923	507	38	803
O'Brien, Thomas, New York, N. Y. Velocipede	372,428	Nov. 1	214	60	41	510
O'Brien, Thomas, New York, N. Y. Tricycle	372,429	Nov. 1	216	60	41	511
O'Brien, Thomas E., Chicago, Ill. Spring bed-bottom	357,224	Feb. 8	709	182	38	561
O'Brien, Thomas E., Chicago, Ill. Bed-bottom	365,272	June 21	1553	405	39	1393
O'Brien, Thomas J., Buffalo, N. Y. Street-receiver and stench-trap	357,733	Feb. 15	1453	380	38	709
O'Brien, William D. (See Kock, Macklin, McDermott, and O'Brien.)						
O'Brien, William D. (See Pyncheon, Macklin, Mulloy, McDermott, and O'Brien.)						
O'Brien, William J. (See O'Brien, Philip J. and W. J.)						
O'Connell, Joseph J., Chicago, Ill. Electro-magnetic annunciator-drop	365,935	July 5	256	67	40	50
O'Connell, Joseph J., assignor of one-half to A. C. Holland, Chicago, Ill. Testing apparatus for telephone-exchange switches	362,652	May 10	837	228	39	636
O'Connor, Bridget, Bridgeport, Conn. Shirt	358,406	Feb. 22	2393	636	38	891
O'Connor, James B., and J. Janggen, Dubuque, Iowa. Seal	362,775	May 10	1020	277	39	670
O'Connor, James L., New York, assignor of two-thirds to A. H. Jocelyn, Brooklyn, and L. W. Frost, White Plains, N. Y. Manifold copying-book	362,529	May 10	644	182	39	603
O'Connor, Jeremiah J. and J. A., Pawtucket, assignors of one-third to A. H. Allen, Providence, R. I. Machine for twisting thread	372,700	Nov. 8	616	167	41	597
O'Connor, John A. (See O'Connor, Jeremiah J. and J. A.)						
O'Connor, Patrick, Ludington, Mich. Shingle-sawing machine	358,474	Mar. 1	75	19, 20	38	917
O'Connor, Stephen, Fort Wayne, Mich., assignor of one-half to G. K. Brady, Fort Crawford, Colo. Soldier's ammunition equipment	373,681	Nov. 22	2124	{ 568 } { 569 }	{ 41 }	896
O'Daniel, Addison M. (See Kelchner, O'Daniel, and Pursel.)						
O'Daniel, John W., Cloverdale, Ind. Door-spring	369,203	Aug. 30	2664	708	40	996
O'Hara, Daniel, Waltham, Mass. Manufacture of spectacle-frames	359,171	Mar. 8	1072	279	38	1109
O'Hara, Daniel, Waltham, Mass. Spectacle-frame	359,172	Mar. 8	1074	279	38	1109
O'Hara, Daniel, Waltham, Mass. Eyeglass or spectacle frame	359,173	Mar. 8	1075	280	38	1109
O'Hara, Daniel, Waltham, assignor to American Waltham Watch Company, Boston, Mass. Watch-case	359,885	Mar. 22	2181	549	38	1334
O'Hara, Lewis, assignor of one-half to J. Sinnamon, Oswego, N. Y. Lifting-jack	355,551	Jan. 4	335	90	38	68
O'Hara, Michael, Brooklyn, N. Y. Making soap	371,093	Oct. 4	513	.....	41	101
O'Hara, Thomas W. (See Kelly, Patrick J., assignor.)						
O'Hare, John, Buffalo, N. Y. Printer's furniture	371,274	Oct. 11	765	196	41	158
O'Keefe, John, and C. H. Filley, St. Louis, Mo. Hot-water pipe or fitting for cooking-stoves	358,123	Feb. 22	2007	528	38	816
O'Leary, John, Bayonne, N. J. Pipe-coupling	364,666	June 14	641	172	39	1216
O'Neil, John, Terre Haute, Ind. Drilling apparatus	365,850	July 5	128	34	40	26
O'Neil, John K., assignor of one-half to D. Neville, Poughkeepsie, N. Y. Corn-harvester	366,636	July 12	1217	{ 325 } { 326 }	{ 40 }	241
O'Neil, Simon J., Reading, Pa. Car-coupling	371,783	Oct. 18	1488	384	41	311
O'Neill, David J., Council Bluffs, Iowa. Shoe	366,503	July 12	1018	277	40	202
O'Neill, Joseph G., Nevada City, Cal. Combination-lock	365,317	June 21	1617	{ 421 } { 422 }	{ 39 }	1405
O'Neill, Michael, assignor of one-half to J. Hickey, Michigamme, Mich. Chimney-cleaner	369,993	Sept. 13	973	257	40	1226
O'Neill, Timothy J., New York, N. Y. Pry-conveyer	364,846	June 14	929	246	39	1269
O'Rourke, John J., et al. (See Hughes, John F., assignor.)						
O'Sullivan, Dennis J., Detroit, Mich. Combined case and display-rack	362,035	Apr. 26	2369	{ 617 } { 618 }	{ 39 }	462
Oakes, Alonzo, Taylor, Wis. Telegraph-key	373,152	Nov. 15	1322	350	41	732
Oakes, Henry, Silver City, New Mex. Ter. Reach-coupling for vehicles	356,049	Jan. 11	1074	282	38	216
Oakes, Lucian R., Valparaiso, Ind. Milk-cooler	370,968	Oct. 4	346	86	41	69
Oakes, William L., Decatur, Ill. Feed-water heater	367,839	Aug. 9	733	198	40	599
Oakley, Imogen B., Pittsburg, Pa. Kindergarten game for teaching spelling	364,845	June 14	928	245	39	1269
Oakman, Joseph W. (See Brown and Midelton, assignors.)						
Oakman, Samuel, et al. (See Coughlin, John J., assignor.)						
Ober, Oliver, assignor of two-thirds to C. H. Allen and J. S. Ludlam, Lowell, Mass. Covering for steam-pipes	360,782	Apr. 5	545	141	39	102
Ober, William Y., Lynn, Mass., assignor to American Ventilating Company, Portland, Me. Opera-chair	374,424	Dec. 6	361	95	41	1115
Oberlin, Michael W. (See Pentz, Levi, assignor.)						
Obermayer, Simon, et al. (See Topmiller, Bennard, assignor.)						
Oberndorfer, Emanuel, assignor to New Haven Patent Rolling Spring Bed Company, New Haven, Conn. Spring-bed	373,750	Nov. 22	2217	593	41	914
Obersky, Theodor D., and S. Fischer, New York, N. Y. Coal-kindler	365,271	June 21	1552	404	39	1393
Oblinger, Barrett C., Independence, Mo. Stove-pipe damper	368,485	Aug. 16	1663	444	40	785
Oborn, Benjamin, Marion, Ohio. Hay-elevator and track for the same	362,307	May 3	328	90	39	537
Ochse, Louis. (See Reinisch and Ochse.)						
Ockenden, Pierce. (See Woodham and Ockenden.)						
Ockford, Henry N., Jackson, Mich. Combined mail-bag fastener and tag-holder	374,749	Dec. 13	825	216	41	1217

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Ocksenreider, Reuben E. (See Burcaw, Franklin P., assignor.)						
Ocorr, Henry, Englewood, Ill. Seat for stools	370,081	Sept. 20	1110	294	40	1258
Odell, Albert P., Bradford, Pa. Railway time-signal	357,407	Feb. 8	954	251	38	608
Odell, Albert P., assignor of one-half to J. K. Chapman, Bradford, Pa. Automatic railway-switch	372,234	Oct. 25	2174	558	41	448
Odell, John J. P., administrator. (See Brown, Thomas H., Jr.)						
Odell, Thomas L., Iowa Falls, Iowa, assignor of one-half to G. W. Straight, Chicago, Ill. Folding bed	357,023	Feb. 1	389	105	38	494
Odgers, William, assignor of one-half to R. Tettey, Bonne Terre, Mo. Diamond rock-drill	369,654	Sept. 6	475	132	40	1125
Oehler, K. (See Friedlaender, Paul, assignor.)						
Oehlhey, Richard. (See Loos, Vincenz, assignor.)						
Oehmen, John S. (See Lewis, Albert D., assignor.)						
Oehrle, Emanuel, assignor of one-half to J. H. Baldwin, Omaha, Nebr. Seal-lock	366,241	July 12	679	184	40	136
Oehrle, Emanuel, and J. R. Perkins, Omaha, Nebr. Grate	364,035	May 31	2801	725	39	1032
Oelrich, Henry, Detroit, Mich. Puzzle	358,620	Mar. 1	303	72	38	959
Oester, Nicholas. (See Lochner and Oester.)						
Oestreich, Adolph A., La Grange, Tex. Corner-protector for trunks	355,946	Jan. 11	932	243	38	189
Ofeldt, Frank W., assignor to Gas Engine and Power Company, New York, N. Y. Gas-engine	356,419	Jan. 18	1605	422	38	321
Ofeldt, Frank W., assignor to Gas Engine and Power Company, New York, N. Y. Pressure-generator for naphtha-engines	356,420	Jan. 18	1610	422	38	322
Offrell, Olof, Hartford, Conn. Match-box	371,621	Oct. 18	1250	325	41	262
Offutt, Joseph E., assignor to J. H. Thomas, Springfield, Ohio. Adjusting-lever for tedders, &c	356,371	Jan. 18	1536	404	38	309
Ofterdinger, Henry T., Washington, D. C. Cigar and cigar-mold	369,956	Sept. 13	915	244	40	1215
Ogden, George, Trumansburg, N. Y. Fire-escape	366,681	July 19	1287	343	40	261
Ogden, Henry. (See Deasey, John, assignor.)						
Ogden, Henry, Fall River, Mass. Faucet	374,806	Dec. 13	911	238	41	1234
Ogden, Milton D., et al. (See Holman, Strange A., assignor.)						
Ogden, Samuel, Manchester, county of Lancaster, England. Driving-belt	364,281	June 7	108	31	39	1110
Ogilvy, David J., Cincinnati, Ohio. Rosin-oil compound	374,370	Dec. 6	287		41	1101
Ogle, George A., Baltimore, Md. Safety attachment for car-stoves	371,350	Oct. 11	872	224	41	178
Ogletree, James A., Randall, Ark. Combined cultivator, seeder, planter, and fertilizer-distributor	373,475	Nov. 22	1811	482	41	835
Ogletree, John W., Powder Springs, Ga. Combination-tool	356,953	Feb. 1	292	81	38	476
Ohio Butt Company. (See Nickel and Zattan, assignors.)						
Ohio Rake Company. (See Bell and Ritty, assignors.)						
Ohl, Adolph, et al. (See McCarty, William F. M., assignor.)						
Ohlmeyer, D., et al. (See Melançon, Egisippe D., assignor.)						
Ohse, Wilhelm, et al. (See Martin, Jakob, assignor.)						
Oillar, Frank E., and J. Cory, Melvern, Kans. Washing-machine	371,852	Oct. 18	1598	{ 412 413 }	{ 41 41 }	333
Olcott, Herbert H., Rochester, Ill. Car brake and starter	374,619	Dec. 13	650	170	41	1182
Old, James, Allegheny, Pa. Gate-valve	364,952	June 14	1083	282	39	1297
Oldham, Charles W., Mitchell, Ind. Feed for cotton-planters	365,195	June 21	1440	379	39	1372
Oldenbusch, Ernest A., assignor to W. Schimper & Co., New York, N. Y. Clasp for pocket-books	367,313	July 26	2158	581	40	431
Oldenbusch, Ernest A., assignor to W. Schimper & Co., New York, N. Y. Spring or snap clasp for pocket-books	367,544	Aug. 2	274	77	40	503
Oldershaw, John B., Baltimore, Md. Fire-place heater	373,846	Nov. 29	2361	634	41	948
Oldman, William, Jr., Buffalo, N. Y. Device for holding rivets	367,314	July 26	2159	581	40	431
Oldroyd, Thomas, New London, Conn. Cotton-beater	357,783	Feb. 15	1535	400	38	724
Olds, Charles L., and J. Eklund, St. Joseph, Mich. Button-fastening machine	368,419	Aug. 16	1560	{ 416 417 }	{ 40 40 }	766
Olds, Jeremiah E., Mendota, Ill. Stop-action for organs	361,887	Apr. 26	2156	559	39	425
Oley, Nickolas, Indianapolis, Ind. Pump-boring machine	356,848	Feb. 1	148	40	38	450
Olin, William F., Chicago, Ill. Platform adjustment	364,036	May 31	2803	726	39	1032
Olin, William F., Chicago, Ill. Grain-harvester	368,964	Aug. 30	2345	623	40	932
Olin, William F., assignor to W. Deering & Company, Chicago, Ill. Harvester	370,082	Sept. 20	1111	295	40	1258
Oliphant Manufacturing Company. (See Oliphant, William, assignor.)						
Oliphant, William, Jersey City, N. J., assignor to Oliphant Manufacturing Company, New York, N. Y. Apparatus for promoting combustion in furnaces	364,953	June 14	1084	282	39	1297
Oliver, Addison, et al. (See Hix, Oliver P., assignor.)						
Oliver Brothers & Phillips. (See Davis, John, assignor.)						
Oliver, Doctor F., Huntsville, Mo. Lever attachment for rakes, &c	373,902	Nov. 29	2444	656	41	963
Oliver, Ebenezer, New York, N. Y., assignor to W. S. Estey, Jersey City, N. J. Animal-trap	363,536	May 24	2082	539	39	889
Oliver, Elam A., Belleville, Wis. Combined pot-cover and colander	355,622	Jan. 4	424	117	38	84
Oliver, Elam A., Belleville, Wis. Compound metal-working machine	367,658	Aug. 2	447	124	40	536
Oliver, Elam A., Belleville, Wis. Tire-shrinking apparatus	369,204	Aug. 30	2665	709	40	996
Oliver, Eugene J., Springfield, Ohio. Pump-jack	372,274	Oct. 25	2228	571	41	459
Oliver, George E., Magog, Quebec, Canada. Chimney-holder for lamp-burners	366,867	July 19	1534	412	40	306
Oliver, George T. (See Roberts, Henry, assignor.)						
Oliver, Harry E. (See Wren, William C., assignor.)						
Oliver, Henry M., Newark, N. J. Whiffletree-hook	372,485	Nov. 1	294	81	41	526
Oliver, James B., Pittsburg, Pa. Fire-plow	364,768	June 14	806	212	39	1246
Oliver, James C., Louisville, Ky. Thrill-coupling	357,225	Feb. 8	710	183	38	561
Oliver, John D. (See Tye, John, assignor.)						
Oliver, Revilo, Chatsworth, Ill. Buckle	358,066	Feb. 22	1924	508	38	803
Oliver, Thomas. (See Scott and Oliver.)						
Oliver, Thomas, Dyersville, Iowa. Washing-machine	370,812	Oct. 4	82	22	41	18
Oliver, William, assignor to D. Judson & Son, (limited,) London, England. Coin-operated induction-coil	372,168	Oct. 25	2069	{ 529 530 }	{ 41 41 }	428
Oliver, Woodbury T., Bath, Me. Anchor-tripping device	361,539	Apr. 19	1629	422	39	320
Oller, Joseph, Paris, France. Circus	367,055	July 26	1776	479	40	360
Olmstead, Chauncey L., West Brookfield, and A. D. Nason, Springfield, Mass. Garment-supporter	364,037	May 31	2805	727	39	1033
Olmstead, Edward A., New York, N. Y. Railway-rail spring	364,432	June 7	315	86	39	1148
Olmstead, Edward A., New York, N. Y. Vehicle-beater	367,997	Aug. 9	966	259	40	643
Olmstead, Homer E., Decatur, Mich. Clothes-pounder	361,888	Apr. 26	2157	559	39	425
Olmstead, Homer P., New York, N. Y. Bustle	368,106	Aug. 9	1112	295	40	670
Olney, George R., St. Louis, Mo. Drum-pedal	357,093	Feb. 1	497	132	38	514
Olp, Robert, Manitowoc, Wis. Cheese-vat	364,128	May 31	2931	{ 761 762 }	{ 39 39 }	1057

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Olsen, Christian, Canton, Miss. Station-indicator.....	367,114	July 26	1863	504	40	376
Olsen, Herman, assignor of one-half to G. E. P. Dodge, Chicago, Ill. Safety device for elevators.....	368,848	Aug. 23	2177	{ 577 } 578	{ 40 } 40	891
Olsen, Johan L. W., Copenhagen, Denmark. Water-level alarm.....	361,968	Apr. 26	2278	592	39	445
Olsen, Lewis, and N. E. Burns, River Falls, Wis. Compound metal-working machine.....	369,872	Sept. 13	786	209	40	1192
Olsen, Olaf R., assignor to Covert Fire Ladder and Stand Pipe Company, Indianapolis, Ind. Fire-truck.....	361,443	Apr. 19	1508	389	39	296
Olson, John A., Litchfield, Minn., assignor of one-half to J. B. Steffen, Bathgate, Dak. Ter. Check-hook.....	360,462	Apr. 5	95	24	39	19
Olson, John W., assignor to S. C. and J. E. Dennis, Maquon, Ill. Wagon end-gate.....	366,734	July 19	1358	364	40	274
Olszewski, Stanislas. (See De Benardos and Olszewski.)						
Omens, Joel A., Utica, N. Y. Compound for preventing boiler-scale.....	361,180	Apr. 12	1145	.....	39	217
Ommert, John. (See Hague and Cookson, assignors.)						
Omo, Joseph H., Toledo, Ohio. Mop.....	368,486	Aug. 16	1664	444	40	785
Omwake, Daniel M., and W. P. McGee, Zullinger, Pa. Drag-saw.....	355,708	Jan. 11	566	148	38	121
Onderdonk, Charles S., assignor to J. P. Onderdonk, Philadelphia, Pa. Paper-feeding device.....	371,473	Oct. 11	1040	271	41	211
Onderdonk, John P. (See Onderdonk, Charles S., assignor.)						
Onderdonk, John P., Philadelphia, Pa. Toilet-paper cabinet.....	373,301	Nov. 15	1546	408	41	773
Oneida Community. (See Ellis, Ferrand F., assignor.)						
Oneida Community. (See Golding and Wright, assignors.)						
Oneida Community. (See Sears and Kelley, assignors.)						
Oneida Community. (See Wright, Orrin D., assignor.)						
Oney, Ro. T. (See Beales, Emanuel D., assignor.)						
Opp, Henry, Belleville, Ill. Fire-escape, derrick, &c.....	364,186	May 31	3020	784	39	1073
Oppenheimer, Herman, et al. (See Choinanus, Richard, assignor.)						
Oppenheimer, Milton, Shenandoah, Iowa. Automatic windmill attachment.....	357,288	Feb. 8	792	206	38	577
Oppenheimer, Sigmund. (See Davis and Aberle, assignors.)						
Oppermann, Hugo, Philadelphia, Pa. Egg-tester.....	371,517	Oct. 11	1103	287	41	224
Orbold, Joseph E., Memphis, Tenn. Compound tool for painters or glaziers.....	367,228	July 26	2032	547	40	409
Orcutt, Edward L., Somerville, Mass. Contact-brush.....	374,198	Dec. 6	46	12	41	1055
Orcutt, Edward L., Somerville, Mass. Rail-connection for electric railways.....	374,199	Dec. 6	47	12	41	1056
Orcutt, Harry F. L., assignor to Billings & Spencer Company, Hartford, Conn. Ratchet-drill.....	367,723	Aug. 2	564	154	40	558
Orcutt, William, Abilene, Kans. Hand-stamp.....	366,789	July 19	1430	382	40	286
Ordenstein, Henry, New York, N. Y. Manufacture of articles from plaster-of-paris or other compositions or materials.....	370,645	Sept. 27	1943	.....	40	1422
Ordiorne, David W. (See Bailey, Henry C., assignor.)						
Ordonez y Ponce, Antonio, Matanzas, Cuba. Gas-generator.....	360,240	Mar. 29	2760	{ 700 } 701	{ 38 } 38	1447
Ordway, Albert H., Mattapoisett, Mass. Cradle.....	371,700	Oct. 18	1375	355	41	287
Ordway, Ira J., Chicago, Ill. Apparatus for heating buildings.....	357,332	Feb. 8	850	221	38	588
Ordway, Joseph H., Chelsea, Mass. Mixing-machine.....	358,290	Feb. 22	2239	590	38	862
Orelup, Amasa, Chicago, Ill. Damper and blower for open grates.....	370,279	Sept. 20	1385	372	40	1311
Orford Copper Company. (See Devereux, Walter B., assignor.)						
Oriolle, Paul, Fils, Nantes, France. Means for preventing smoke from chimneys.....	368,682	Aug. 23	1938	515	40	847
Orlob, Christian A. F., Salt Lake City, Utah Ter. Ruling-pen.....	364,282	June 7	108	31	39	1110
Orme, Alexander, Chicago, Ill. Safety-valve.....	374,750	Dec. 13	826	217	41	1217
Orme, Daniel and F. H., Oldham, county of Lancaster, England. Register for throstles or other spinning-machines.....	368,163	Aug. 9	1186	317	40	684
Orme, Francis H. (See Orme, Daniel and F. H.)						
Ormsbee, John M., et al. (See Drodzewski, Julius R., assignor.)						
Ormsby, Alexander, Buffalo, N. Y., assignor of one-half to W. J. McKinnie, Cleveland, Ohio. Car-coupling.....	371,966	Oct. 25	1766	{ 457 } 458	{ 41 } 41	374
Orphy, John W., assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Lantern.....	366,020	July 5	377	102	40	71
Orr, Alexander, et al. (See Ridley, James M., assignor.)						
Orr, Andrew J., Syracuse, N. Y. Milk-cooler.....	356,884	Feb. 1	203	57	38	459
Orr, Edward E., Weymouth, Mass., assignor to National Heeling Machine Company, Portland, Me. Heel-nailing machine.....	375,458	Dec. 27	1835	480	41	1428
Orr, Francis J., and F. C. Holman, Wellington, Kans. Sight for fire-arms.....	358,747	Mar. 1	481	117	38	992
Orr, John S., Augusta, Ky. Fence.....	370,157	Sept. 20	1224	326	40	1280
Orr, Robert. (See Kent and Orr.)						
Orr, Robert, St. Paul, Minn. Clothes-drying frame.....	359,275	Mar. 15	1221	318	38	1143
Orr, William, Glasgow, county of Lanark, Scotland. Wire-fastener.....	359,463	Mar. 15	1493	383	38	1194
Orr, William, Glasgow, county of Lanark, Scotland. Fence-wire strainer.....	359,464	Mar. 15	1494	383	38	1194
Orrell, Ephraim E., Ware, Mass. Mechanical movement.....	357,499	Feb. 8	1084	286	38	633
Orrick, William L., et al. (See Gannon, William J., assignor.)						
Orsinger, George, et al. (See Schulz, Adolph C., assignor.)						
Orsor, Henry G. (See Snider, William H., assignor.)						
Orther, Charles, assignor of one-half to A. E. Shrock, Goshen, Ind. Brush.....	366,790	July 19	1432	383	40	287
Ortman, Barnim F., Buffalo, N. Y. Dust-collector.....	361,232	Apr. 12	1225	311	39	232
Ortmayer, Andrew, Chicago, Ill. Collar-pad fastener.....	355,411	Jan. 4	159	41	38	32
Orum, Morris L., Philadelphia, Pa. Mortise-lock.....	367,436	Aug. 2	106	29	40	471
Orvis, Orland D., Chicago, Ill. Furnace-door.....	371,094	Oct. 4	514	130	41	101
Orvis, Orland D., Chicago, Ill. Hydrocarbon-furnace.....	371,784	Oct. 18	1490	{ 384 } 385	{ 41 } 41	311
Osborn, Chester S. (See Fauntleroy and Osborn.)						
Osborn, David L. (See Fitzgerald and Osborn.)						
Osborn, Levi H. (See Green, Milton C., assignor.)						
Osborne, Abram W., et al. (See Osborne, Charles H., assignor.)						
Osborne, Charles H., assignor of two-thirds to F. G. Stevenson and A. W. Osborne, Forestville, Conn. Fountain-brush.....	371,899	Oct. 18	1670	431	41	346
Osborne & Company, D. M. (See Butterfield, William, assignor.)						
Osborne & Company, D. M. (See Case and Young, assignors.)						
Osborne, David M. (See Corey, Rufus H., assignor.)						
Osborne, David M., deceased, Auburn, N. Y.; E. W. Osborne, executrix, F. Harris and T. M. Osborne, executors. Cutting apparatus for grain-harvesting machines.....	358,216	Feb. 22	2138	564	38	842
Osborne, Eliza W., et al., executors. (See Osborne, David M.)						
Osborne, Frank H., Stamford, Conn. Gage for determining the smallest circle which will produce a given square.....	367,229	July 26	2033	548	40	409
Osborne, Frank S., et al. (See Prosser, Treat T., assignor.)						
Osborne, Thomas M., et al., executors. (See Osborne, David M.)						
Osborne, William, Brooklyn, N. Y. Bathing-cap.....	364,847	June 14	930	246	39	1269
Osborne, William A., Elk Rapids, Mich. Whiffletree hook.....	358,565	Mar. 1	231	53	38	946

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Osdén, Lozene M., assignor of one-half to Strong, Woodbury & Co., Rochester, N. Y. Whip-button and process of construction	364,539	June 7	482	130	39	1178
Osenbrück, August, Hemelingen, Prussia, Germany. Gas and air compressor and dry vacuum-pump	358,689	Mar. 1	401	97	38	978
Osenbrück, August, Hemelingen, Prussia, Germany. Refrigerating-machine.....	375,188	Dec. 20	1480	{ 387 388 }	{ 41 }	1350
Osgood, Byron A., <i>et al.</i> (See Brawn, Rufus E., assignor.)						
Osgood, Edwin P., Malden, Mass. Store-service apparatus	357,851	Feb. 15	1622	421	38	741
Osgood, J. Lester, assignor to Saxton & Osgood, Buffalo, N. Y. Bit-brace	361,368	Apr. 19	1410	363	39	278
Osgood, Ralph R., Albany, N. Y. Dredge and excavator	362,587	May 10	729	202	39	616
Osterhorn, Robert, St. Louis, Mo. Pulley	359,938	Mar. 22	2261	569	38	1349
Ostrander, Willis H., San Francisco, Cal. Slate-pencil holder, sharpener, and eraser	366,791	July 19	1433	383	40	287
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Button-hole-cutting attachment for button-hole sewing-machines. (Reissue).....	10,803	Feb. 1	630	162	38	538
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Power-transmitter	366,504	July 12	1019	278	40	202
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Cutting mechanism for button-hole-stitching machines.....	367,315	July 26	2160	581	40	431
Oswald, Charles, Newark, N. J. Satchel or traveling-bag	365,622	June 28	2082	543	39	1508
Oswald, Charles, Newark, N. J. Bag-lock	365,623	June 28	2083	544	39	1508
Otis, Charles G. (See Hoeneman, Franklin P., assignor.)						
Otis, Charles G., Brooklyn, N. Y. Hydraulic motor for elevators and other purposes.....	355,658	Jan. 4	490	131	38	96
Otis, Charles G., Brooklyn, N. Y. Explosive projectile	356,396	Jan. 18	1573	414	38	316
Otis, Charles G., Brooklyn, N. Y. Shell	357,500	Feb. 8	1085	286	38	633
Otis, Charles G., Brooklyn, N. Y. Electrical device for operating elevator-valves.....	365,018	June 14	1172	307	39	1313
Otis, Charles G., Brooklyn, N. Y. Elevator	369,297	Aug. 30	2793	745	40	1021
Otis, George A., Buffalo, N. Y. Feed-water heater	362,395	May 3	449	{ 124 125 }	{ 39 }	562
Otis, Marvin S., Rochester, N. Y. Lock	359,276	Mar. 15	1223	319	38	1143
Otis, Norton P., Yonkers, N. Y. Electrical elevator	356,496	Jan. 25	1718	449	38	351
Otis, Samuel L., assignor of one-half to J. H. Giles, Amsterdam, N. Y. Garment-turning device	372,324	Nov. 1	58	18	41	482
Ott, Benedict, Sr. (See Ullrich, Adolph, assignor.)						
Ott, Frederick, Gloucester, N. J. Mechanism for operating harness in looms	364,283	June 7	109	31, 32	39	1110
Ott, George R., <i>et al.</i> (See Conway, John N., assignor.)						
Ott, George R., Baltimore, Md., and D. P. Cordray, West Point, N. Y. Stock-car	357,535	Feb. 8	1144	{ 299 300 }	{ 38 }	643
Ott, John, St. Louis, Mo. Attachment device for horseshoes.....	373,091	Nov. 15	1222	326	41	715
Otto, Edward C. F., Peckham, county of Surrey, England. Elastic tire for wheels	358,291	Feb. 22	2240	591	38	862
Otto, Ernest A. (See Kutzkan and Otto.)						
Otto, Gustav, Jersey City, N. J. Clamp for toilet-cases	366,868	July 19	1535	412	40	306
Otto, Nicolaus A., assignor to Gas Motoren Fabrik Deutz, Deutz-on-the-Rhine, Germany. Gas-motor engine	365,701	June 28	2199	574	39	1528
Oudin, Charles P., New York, N. Y. Beveled glass	358,784	Mar. 1	533	130	38	1003
Oulton, James W., Cambridge, Mass. Mop	363,908	May 31	2607	677	39	994
Ourdan, Vincent L., and C. A. Kolb, Washington, D. C. Engraving-machine	374,492	Dec. 6	460	119	41	1134
Outerbridge, Alexander E., Jr., Philadelphia, Pa. Mold for casting	358,365	Feb. 22	2336	.....	38	880
Ovenshire, Elijah A., Lansing, assignor, by mesne assignments, of one-half to C. T. Crandall, Crystal Falls, Mich. Sleigh	358,407	Feb. 22	2394	636	38	891
Overend, Andrew, Philadelphia, Pa., assignor to C. B. Cottrell, Stonington, Conn. Inking apparatus for printing-machines	363,760	May 24	2403	624	39	951
Overlock, Albra E., Bangor, Me. Suspenders	364,367	June 7	219	61	39	1130
Overman, Albert H. (See Thresher, Harry, assignor.)						
Overman Wheel Company, <i>et al.</i> (See Downes, Moses H., assignor.)						
Overman Wheel Company. (See Serrell, Harold, assignor.)						
Overman Wheel Company. (See Woodward, Charles E. W., assignor.)						
Overstreet, John W., Little Hickman, Ky. Pliers for cutting and stretching wire.....	372,560	Nov. 1	408	109	41	548
Owen, Alva, St. Louis, Mo. Electric belt	368,546	Aug. 16	1750	466	40	800
Owen, Asa K., Lake Geneva, Wis. Slip-holder	366,423	July 12	906	244	40	179
Owen, Asa K., Lake Geneva, Wis. Blocker and tablet	366,424	July 12	907	245	40	180
Owen, Benjamin F. and E. L., Chicago, Ill. Folding bed	373,599	Nov. 22	2010	533	41	871
Owen, Demus J., Lynn, Pa. Thill-coupling	363,254	May 17	1673	438	39	802
Owen, Edward L. (See Owen, Benjamin F. and E. L.)						
Owen, Frederick D., Washington, D. C. Velocipede	365,091	June 21	1290	{ 341 342 }	{ 39 }	1345
Owen, James. (See Wilson, Charles H., assignor.)						
Owen, Owen J., Blaenau Festiniog, county of Merioneth, Wales, assignor of one-half to W. P. Thompson, Liverpool, England. Frame for writing-slates	374,554	Dec. 6	561	147	41	1155
Owen, Robert D., <i>et al.</i> (See Ferguson and Cartner, assignors.)						
Owen, Russel B., and O. B. Fuller, assignors to Smith & Owen Heater Company, Detroit, Mich. Circulating hot-water heater	363,165	May 17	1560	411	39	780
Owen, Russell B., assignor, by mesne assignments, to Detroit Heating and Lighting Company, Detroit, Mich. Car-heater	372,275	Oct. 25	2230	571	41	459
Owens, Henry T., Grafton, Cal. Wheel for plows	363,963	May 31	2706	701	39	1012
Owens, Israel P., Gainesville, Tex. Thill-coupling	366,976	July 19	1673	450	40	332
Owens, Thomas W., Granville, Ohio. Fruit-drier	361,075	Apr. 12	981	248	39	187
Owsley, Ephraim P., Stanford, Ky. Minnow-boat	367,056	July 26	1778	{ 479 480 }	{ 40 }	361
Oyer, John B., Gridley, Ill. Grain-weighing machine	371,148	Oct. 4	589	151	41	116
Ozanne, Frank. (See Verdel, Emile F., assignor.)						
Paar, Charles L. (See Pentz, Levi, assignor.)						
Pabst, Ernst, Hanover, Germany. Milk-can	359,401	Mar. 15	1409	361	38	1177
Pachtmann, Eduard, Dresden, Saxony, Germany. Picture-holder	375,189	Dec. 20	1482	388	41	1351
Pacific Indicator Company. (See Hurlbut, Joseph H., assignor.)						
Pacific Tucking and Manufacturing Company. (See Fisher and Hart, assignors.)						
Pack, John A., Sprots, Ala. Seed-planter	355,836	Jan. 11	758	199	38	155
				{ 485 486 487 488 489 }	{ 40 }	825
Packer, George W., Rock Falls, Ill. Hoop-making machine	368,605	Aug. 23	1826			
Packer, George W., Rock Falls, Ill. Nail-cutting machine	374,807	Dec. 13	912	238	41	1234
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Land-roller	369,873	Sept. 13	787	210	40	1192
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Wheel	369,874	Sept. 13	788	210	40	1192

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Packer, John F., and W. H. Gaede, assignors to D. Bradley Manufacturing Company, Chicago, Ill. Cultivator	369,875	Sept. 13	789	211	40	1192
Packham, Frank R., Springfield, Ohio. Metal-crimping machine	369,876	Sept. 13	791	211	40	1193
Packson, Rachel S., Emporia, Kans. Speculum	355,709	Jan. 11	567	149	38	121
Pacziga, Franz, East Millstone, N. J. Rectifying apparatus	369,877	Sept. 13	794	212	40	1193
Paddock, G. Adolphus, Beaver Dam, Wis. Harrow	366,735	July 19	1360	364	40	274
Paddock, Harvlin, St. Johnsbury, Vt. Coin-operated measuring and weighing machine	369,073	Aug. 30	2505	664	40	964
PaDro, Clara R., Springfield, Mass. Remedy for corns, bunions, &c.	355,552	Jan. 4	336	-----	38	68
Paff, Jacob, Amboy, Minn. Loose-belt alarm	359,402	Mar. 15	1410	361	38	1178
Page, Albert G., San Francisco, Cal. Elevator	362,653	May 10	840	229	39	636
Page, Albert G., San Francisco, Cal. Elevator	362,654	May 10	841	{ 229 230 }	{ 39 }	636
Page, Albert G., San Francisco, Cal., assignor to Page Automatic Fire Shutter Company, of California. Device for operating elevator trap-doors	374,693	Dec. 13	746	196	41	1202
Page, Albert N. (See Page, Daniel S., assignor.)						
Page Automatic Fire Shutter Company. (See Page, Albert G., assignor.)						
Page, Charles G. (See Hooton, Marsena M., assignor.)						
Page, Daniel S., assignor of one-half to A. N. Page, Malden, Mass. Bundle-rack for railway-cars	358,690	Mar. 1	403	97	38	979
Page, George F., Concord, N. H. Machine for stretching belting	373,847	Nov. 29	2362	{ 634 635 }	{ 41 }	948
Page, Harry L., Wells, N. Y. Ice-creeper and log-jumper	366,977	July 19	1673	450	40	333
Page, Hull H. (See McMahan and Whittemore, assignors.)						
Page, James W. (See Grant, John A., assignor.)						
Page, Ransom C., and F. H. Soden, Chicago; said Page assignor to S. O. Page, Ravenswood, Ill. Automatic electric fluid-regulator	358,691	Mar. 1	404	97	38	979
Page, Robert W., London, England. Coin-operated strength-testing machine	373,942	Nov. 29	2493	{ 669 670 }	{ 41 }	973
Page, Susan O. (See Page and Soden, assignors.)						
Page, William H., Norwich, Conn. Producing dies for use in making wood type	374,993	Dec. 20	1207	314	41	1297
Page, William M., and E. B. Krausse, deceased, (A. L. Krausse, administratrix,) St. Louis, Mo. Process of and apparatus for treating barium sulphate	365,318	June 21	1619	422	39	1406
Page, William W., New York, N. Y. House-sewerage apparatus	364,433	June 7	315	86	39	1148
Paget, Joseph T., Boston, Mass. Kitchen-cabinet	355,553	Jan. 4	337	90	38	68
Paget, Joseph T., Boston, Mass. Lathe-chuck	370,083	Sept. 20	1113	295	40	1259
Paige, Arthur E., Philadelphia, Pa. Electric cut-out	356,008	Jan. 11	1017	267	38	206
Paige Car Wheel Company. (See Kells, Ross, assignor.)						
Paige, David O., Detroit, Mich. Safe	361,540	Apr. 19	1630	{ 422 423 }	{ 39 }	320
Paige, James H., Salida, Colo. Picker-stick and shuttle-cushioner for looms	361,444	Apr. 19	1509	390	39	297
Paige, Samuel B., et al. (See Christy and Bennett, assignors.)						
Paillard, Carl A., Geneva, Switzerland. Alloy	367,159	July 26	1931	-----	40	389
Paillard, Carl A., Geneva, Switzerland. Alloy	367,160	July 26	1931	-----	40	389
Paillard, Carl A., Geneva, Switzerland. Alloy	367,161	July 26	1932	-----	40	389
Paillard, Charles, and L. Recordon-Sulliger, Ste. Croix, Switzerland, assignors to M. J. Paillard & Co., New York, N. Y. Comb for music-boxes	369,258	Aug. 30	2735	728	40	1010
Paillard, Charles A., Geneva, Switzerland. Compensation-balance for watches and chronometers	359,093	Mar. 8	975	250	38	1090
Paillard, Charles A., Geneva, Switzerland. Metallic alloy	367,158	July 26	1930	-----	40	389
Paillard & Co., M. J. (See Gagnaux, Louis, assignor.)						
Paillard & Co., M. J. (See Gunz and Sueur, assignors.)						
Paillard & Co., M. J. (See Junod, Alfred, assignor.)						
Paillard & Co., M. J. (See Paillard and Recordon-Sulliger, assignors.)						
Paillard & Co., M. J. (See Sueur, Alfred, assignor.)						
Paillard & Co., M. J. (See Tüller, Eugène, assignor.)						
Pain, Robert W., assignor, by mesne assignments, to Mechanical Orguinette Company, New York, N. Y. Mechanical musical instrument	356,422	Jan. 18	1613	423	38	322
Pain, Robert W., assignor to Mechanical Orguinette Company, New York, N. Y. Mechanical musical instrument	356,599	Jan. 25	1860	{ 489 490 }	{ 38 }	378
Pain, Robert W., and W. B. Tremaine, assignors to D. L. Proudfit, New York, N. Y. Pneumatic motor for engines	356,421	Jan. 18	1612	422	38	322
Pain, Willard S., Cambridge, Mass. Pneumatic cash-carrier	367,724	Aug. 2	567	155	40	558
Paine, Abram B., Vermontville, Mich. Hot-air furnace	358,621	Mar. 1	304	73	38	959
Paine, Clinton J., Wakonda, Dak. Ter. Ore-concentrator	370,646	Sept. 27	1944	515	40	1422
Paine, Eugene M., et al. (See Munroe, Cirthbert C., assignor.)						
Paine, George H., Philadelphia, Pa. Egg-beater	365,624	June 28	2084	544	39	1508
Paine, Henry M., Newark, N. J. System of conversion of electrical energy into mechanical force	363,669	May 24	2269	589	39	926
Paine, Henry M., Newark, N. J. Electro-magnetic motor	366,021	July 5	378	102	40	71
Paine, S. White, and E. S. Combs, Rochester, N. Y.; said Combs assignor to said Paine. Lasting-machine	355,784	Jan. 11	676	{ 176 177 }	{ 38 }	141
Paine, S. White, and E. S. Combs, Rochester, N. Y.; said Combs assignor to said Paine. Lasting-machine	355,785	Jan. 11	678	{ 177 178 }	{ 38 }	141
Paine, S. White, and E. S. Combs, Rochester, N. Y.; said Combs assignor to said Paine. Lasting-machine	355,786	Jan. 11	685	{ 178 179 180 }	{ 38 }	142
Paine, Seth W., Rochester, N. Y. Cutting attachment for check-books	361,541	Apr. 19	1634	424	39	321
Paine, Seth W., Rochester, N. Y. Cutting attachment for check-books	367,230	July 26	2034	548	40	409
Paine, Walter J. (See Tozier, Charles C., assignor.)						
Paine, William H., Brooklyn, N. Y., assignor to National Cable Railway Company, of New York. Gripper for cable railways	371,095	Oct. 4	515	{ 130 131 }	{ 41 }	101
Painter, John L., Bellevue, Ohio. Door or window fastener and alarm	355,466	Jan. 4	222	60	38	45
Painter, Washington, Albion, Ill. Stump-plow	368,778	Aug. 23	2077	550	40	872
Palardis, Narber, et al. (See Gerard, Fardenad, assignor.)						
Palen, Jacob R. (See Steuer, Otto, assignor.)						
Palen, Matthew, Trego, Cal. Adjustable clevis for vineyard and orchard plows	369,809	Sept. 13	678	183	40	1172
Pallut, Henri. (See Lefèvre and Pallut.)						
Pallweber, Josef, Salzburg, Austria-Hungary. Clock	359,227	Mar. 8	1154	{ 300 301 }	{ 38 }	1123
Palm, Peter, Chicago, Ill. Soda-water-bottle filler and sirup-measure combined	360,901	Apr. 12	719	190	39	140
Palmatier, Frank S., Leeds, N. Y. Vehicle-spring	362,174	May 3	164	48	39	505
Palmenberg, Joseph R., New York, N. Y. Show-stand	358,475	Mar. 1	80	20	38	918
Palmenberg, Joseph R., New York, N. Y. Show-stand	360,463	Apr. 5	96	24	39	19
Palmenberg, Joseph R., New York, N. Y. Door-check	372,326	Nov. 1	61	18	41	483

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Palmer, Adoniram J. and G. H., Brooklyn, N. Y. Atomizer.....	366,022	July 5	380	102	40	71
Palmer, Albertus E., Hillsdale, Mich. Adjustable reclining-chair.....	364,368	June 7	220	61	39	1130
Palmer, Arthur W. (See Lynn, Frederick W., assignor.)						
Palmer Brothers. (See Palmer, William H., Jr., assignor.)						
Palmer, Cassius C., Painesville, Ohio. Explosive projectile.....	375,190	Dec. 20	1482	388	41	1351
Palmer, Cassius C., Painesville, Ohio. Refrigerator-car.....	375,191	Dec. 20	1483	{ 388 389 }	{ 41 }	1351
Palmer, Charles A. E. T., Handsworth, county of Stafford, assignor to J. Cornforth, Edgbaston, Birmingham, England. Wheel for bicycles.....	359,809	Mar. 22	2054	520	38	1312
Palmer, Charles A. E. T., assignor to J. Cornforth, Birmingham, county of Stafford, England. Velocipede.....	367,115	July 26	1864	504	40	376
Palmer, Cyrus F., Utica, N. Y. Iron fence-railing.....	361,542	Apr. 19	1635	424	39	321
Palmer, Dennis W., Plymouth, assignor to G. W. Berry, Rockland, Me. Saddle-tree and check-hook.....	360,241	Mar. 29	2762	701	38	1448
Palmer, Edward A., <i>et al.</i> (See Palmer, Frank L., assignor.)						
Palmer, Elisha L., <i>et al.</i> (See Palmer, Frank L., assignor.)						
Palmer, Ellen M. (See Palmer, Seymour C., assignor.)						
Palmer, Francis I., New York, N. Y. Tide and current station.....	362,175	May 3	166	48	39	505
Palmer, Francis I., New York, N. Y. Vessel for harbor and coast defense.....	372,761	Nov. 8	703	194	41	612
Palmer, Frank H., assignor of one-half to C. Huntington, Long Island City, N. Y. Cover-fastening for jars.....	373,248	Nov. 15	1467	387	41	758
Palmer, Frank L., New London, Conn. Making comfortables from continuous fabrics.....	363,670	May 24	2271	589	39	926
Palmer, Frank L., New London, Conn. Bed-comfortable.....	365,625	June 28	2085	544	39	1508
Palmer, Frank L., New London, Conn. Making comfortables from continuous fabrics. (Reissue).....	10,861	Aug. 23	2289	608	40	914
Palmer, Frank L., New London, assignor to himself, E. L., G. S., and E. A. Palmer, Montville, Conn. Machine for sewing and quilting fabrics.....	358,124	Feb. 22	2008	529	38	816
Palmer, George, Littlestown, Pa. Car-wheel.....	366,602	July 12	1171	314	40	232
Palmer, George E., Cedar Rapids, Iowa. Ironing-board.....	358,748	Mar. 1	483	117	38	993
Palmer, George H. (See Palmer, Adoniram J. and G. H.)						
Palmer, George L., <i>et al.</i> (See Palmer, Frank L., assignor.)						
Palmer, Harmon S., Chattanooga, Tenn. Machine for molding building-blocks.....	375,377	Dec. 27	1730	454	41	1407
Palmer, Henry, San Francisco, Cal. Bottle-case.....	365,851	July 5	130	35	40	27
Palmer, Henry F. (See Collins, John T., assignor.)						
Palmer, Isaac H., Lodi, Wis. Rotary saw filer and gummer.....	358,217	Feb. 22	2139	564	38	842
Palmer, J. Dwight. (See Bartlett, James F., assignor.)						
Palmer, James M., Boston, Mass. Fire-extinguisher.....	359,939	Mar. 22	2262	569	38	1349
Palmer, John H., Rockaway, N. J. Bearing for bicycles.....	360,470	Apr. 5	103	26	39	20
Palmer, John M., St. Paul, Minn. Chuck-jaw.....	368,965	Aug. 30	2349	623	40	933
Palmer, John W., St. Louis, Mo., assignor to D. W. Glass, Baltimore, Md. Perfume-receptacle.....	360,902	Apr. 12	721	190	39	141
Palmer, Lyman R. (See Hamilton, Jonathan R., assignor.)						
Palmer, Mallory. (See Plamondon and Palmer.)						
Palmer, Maro V., Willimantic, Conn. Machine for winding cops for sewing-machine shuttles.....	368,897	Aug. 23	2240	596	40	904
Palmer, Maro V., Willimantic, assignor to Willimantic Linen Company, Hartford, Conn. Sewing-machine cop.....	360,108	Mar. 29	2563	651	38	1411
Palmer, Marshall B., and C. S. Mudge, Germantown, Nebr. Permutation-padlock.....	375,505	Dec. 27	1893	495	41	1439
Palmer, Merritt W., and C. S. Munro, Kenesaw, Nebr.; said Munro assignor to said Palmer. Window.....	375,564	Dec. 27	1981	516	41	1455
Palmer, Noyes F., Jamaica, N. Y. Telephone and telegraph.....	358,939	Mar. 8	776	195	38	1052
Palmer, Noyes F., Jamaica, N. Y. Telephone.....	358,940	Mar. 8	777	195	38	1052
Palmer, Noyes F., Jamaica, N. Y. Telephone-transmitter.....	358,941	Mar. 8	779	{ 195 196 }	{ 38 }	1053
Palmer, Rufus L., Johnstown, and R. R. Carter, Basil, Ohio. Clothes-line support.....	365,196	June 21	1441	380	39	1373
Palmer, Seymour C., assignor to E. M. Palmer, South Norwalk, Conn. Hat-sizing machine.....	365,852	July 5	131	35	40	27
Palmer, Solon, New York, N. Y. Perfumed artificial flower.....	369,878	Sept. 13	795	212	40	1193
Palmer, Stephen, Lansingburg, N. Y. Sash-cord guide.....	370,647	Sept. 27	1946	515	40	1422
Palmer, Thomas J., North Street, Carshalton, county of Surrey, England. Manufacture of decorative materials for walls and other purposes.....	369,957	Sept. 13	916	244	40	1216
Palmer, Thomas W., Cuba, Ky., assignor of one-third to E. M. Cox, Birmingham, Ala. Double-shovel plow.....	363,298	May 17	1732	453	39	813
Palmer, Timothy G., Schultsville, and W. H. Butler, Rhinebeck, N. Y.; said Butler assignor to said Palmer. Coffee-roaster.....	360,971	Apr. 12	827	212	39	159
Palmer Torpedo Company. (See Treacy, Frank H., assignor.)						
Palmer, William H., St. Louis, Mo. Memorial ornament for necklaces.....	365,853	July 5	134	36	40	27
Palmer, William H., Jr., Middletown, assignor to Palmer Brothers, New London, Conn. Sewing-machine.....	364,769	June 14	808	213	39	1246
Palmerton, Allen H., Indianapolis, Ind., assignor of one-half to J. W. Brooks, Columbus, Ohio. Spectacle-case holder.....	358,566	Mar. 1	232	54	38	946
Paltz, Edmund. (See Markgraf, Franz, assignor.)						
Panabaker, Peter F., assignor of two-fifths to J. S. Hake, Wayne, Nebr. Check-row attachment for corn-planters.....	362,309	May 3	331	91, 92	39	538
Pangborn, Henry, Saginaw, Mich. Snow-plow.....	365,197	June 21	1442	380	39	1373
Pannill, Henry, assignor of one-half to B. Mann, Petersburg, Va. Drainer for liquid-measures.....	370,648	Sept. 27	1947	515	40	1422
Panse, Friedrich. (See Young, John F., assignor.)						
Panse, Friedrich, New York, N. Y. Machine for making ruffles.....	364,369	June 7	221	62	39	1130
Pantall, Thomas M., assignor of one-half to J. St. Clair, Punxsutawney, Pa. Thill-tug.....	358,785	Mar. 1	533	130	38	1003
Pape, Frederick. (See Pape, Gustav and F.)						
Pape, Gustav and F., New York, N. Y. Hat-hook.....	364,038	May 31	2806	727	39	1033
Pappa, James, Oswego, N. Y. Attachment for winding bobbins.....	359,277	Mar. 15	1229	319	38	1144
Paradise, Frank D., Memphis, Tenn. Pivot for transoms, sashes, &c.....	373,413	Nov. 15	1720	455	41	805
Paragon Shoe Cutter Company. (See Parker and Gunning, assignors.)						
Paramore, John E., Wausau, Wis. Machine for crushing and screening quartz.....	358,292	Feb. 22	2241	591	38	862
Paramore, John E., assignor of one-half to J. J. Murray and J. Cameron, Wausau, Wis. Mining pan or settler.....	357,852	Feb. 15	1623	422	38	751
Parcelle, Albert L., New York, N. Y. Electric pendulum clock.....	360,903	Apr. 12	722	191	39	141
Pardee, George H., Marshfield, Mo. Scrap-case.....	367,316	July 26	2162	582	40	432
Pardoe, Samuel. (See Biggs and Pardoe.)						
Parfitt, Thomas E., Omaha, Nebr. Parlor-game.....	355,947	Jan. 11	933	244	38	189
Parham, Charles, Philadelphia, Pa. Car-seat lock.....	367,057	July 26	1778	480	40	361
Parham, Charles, Philadelphia, Pa. Car-seat lock.....	372,430	Nov. 1	218	61	41	511

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Parham, William H., Paducah, Ky. Bung-faucet	367,999	Aug. 9	968	260	40	643
Paris, Alfred W., Minneapolis, Minn. Box	356,009	Jan. 11	1018	267	38	206
Paris, Paul G., assignor to himself, P. Motz, and J. P. Meehan, Columbia, S. C. Fire-escape	358,293	Feb. 22	2242	{ 591 592	{ 38	862
Paris, Thomas H., Rensselaer, Ind. Heel and shank supporter	372,561	Nov. 1	409	110	41	548
Parish, Thomas, Newark, N. J. Lantern	362,776	May 10	1021	{ 277 278	{ 39	670
Parish, Thomas, Newark, N. J. Carriage-lamp	372,325	Nov. 1	60	18	41	483
Parish, William F., Minneapolis, Minn. Adjustable cut-off	363,255	May 17	1674	439	39	803
Parish, William F., Minneapolis, Minn. Gang-edger	369,025	Aug. 30	2426	644	40	949
Parish, William F., Minneapolis, Minn. Two-saw trimmer	369,026	Aug. 30	2427	{ 644 645	{ 40	949
Parish, William F., Minneapolis, Minn. Saw-mill set-works	373,476	Nov. 22	1814	{ 482 483 484	{ 41	836
Park, David E., H. Aikin, and H. W. Lash, Pittsburg, Pa. Open-hearth furnace	365,936	July 5	257	68	40	50
Park, John, assignor of one-half to A. McKay, Detroit, Mich. Water-closet	365,937	July 5	259	68	40	50
Park, William R., Taunton, Mass. Injector	370,405	Sept. 27	1577	422	40	1355
Parke, Sarah A., Bay City, Mich. Saw-tooth-swaging machine	358,068	Feb. 22	1926	508	38	803
Parker, Aaron L., Philadelphia, Miss. Combined planter and cultivator	355,948	Jan. 11	934	244	38	189
Parker, Adelbert E., assignor of one-half to A. Schaffhauser, Dubuque, Iowa. Axle-clip	360,724	Apr. 5	466	119	39	87
Parker, Arthur A., Jersey City, N. J. Hitching-post	370,158	Sept. 20	1225	326	40	1280
Parker, Charles A. (See Harter and Parker.)						
Parker, Charles F., Wollaston, Mass., assignor to Solidity Iron Last Company, New York, N. Y. Mechanism for the manufacture of rubber boots	360,242	Mar. 29	2763	701	38	1448
Parker, Clarence D. (See Pruitt, Eugene R., assignor.)						
Parker Company, Charles. (See Griswold, Lewis F., assignor.)						
Parker, De Forest, assignor to Summit Stone Company, Akron, Ohio. Whetstone-holder	368,107	Aug. 9	1114	295	40	670
Parker, Dexter W., Meriden, Conn. Parlor extension-lamp	367,840	Aug. 9	735	198	40	600
Parker, Edward K., Randolph, Mass. Portable fire-extinguisher	364,667	June 14	641	172	39	1217
Parker, Eli R., Wyoming, assignor to B. S. Van Tuyl, Petrolia, Ontario, Canada. Draft-equalizer	372,083	Oct. 25	1953	503	41	405
Parker, Eliza J., et al. (See Parker, Samuel J., assignor.)						
Parker, Francis, Weston, Mass. Watch-barrel	364,370	June 7	222	63	39	1131
Parker, Frank H., Burlington, Vt. Mast-arm for electric lights	366,603	July 12	1172	{ 314 315	{ 40	232
Parker, Frederick C. (See Curry, Edmund A., assignor.)						
Parker, Genio S., Deep River, Conn. Burial-casket	356,660	Jan. 25	1953	513	38	396
Parker, George A., Chicopee, Mass., assignor to Pope Manufacturing Company, Portland, Me. Ball-bearing for bicycles	361,233	Apr. 12	1226	312	39	233
Parker, George C., Buchanan, Tenn. Plating-machine	359,810	Mar. 22	2056	521	38	1312
Parker, George T., Smith's Grove, Ky. Detaching horses	366,978	July 19	1674	450	40	333
Parker, George W., New York, N. Y. Street-car	355,787	Jan. 11	691	180	38	143
Parker, Guilford, assignor of one-half to C. S. Johnson, Norwich, Conn. Malting-machine	361,642	Apr. 19	1788	463	39	351
Parker, Harry, et al. (See Parker and Gunning, assignors.)						
Parker, Harry C., et al. (See Lamb, Salem T., assignor.)						
Parker, Harry C., Wilmington, Del. Composition for cleaning, blacking, and oiling of leather	365,854	July 5	134	.....	40	27
Parker, Jacob A., Terre Haute, Ind. Car-wheel	372,701	Nov. 8	617	167	41	597
Parker, John H., Chicago, Ill. Hose-nozzle	356,372	Jan. 18	1539	405	38	309
Parker, John H., Cleveland, Ohio. Painter's sample-book	371,701	Oct. 18	1376	355	41	287
Parker, John P. (See Sherman, Elliott H., assignor.)						
Parker, Jonas, and M. L. Gunning, assignors of part to G. S. Banger, C. A. Bowman, and H. Parker, Williamsport, Pa. Machine for cutting and beveling flexible material	357,024	Feb. 1	391	{ 105 106	{ 38	494
Parker, Jonas, and M. L. Gunning, assignors of part to G. S. Banger, C. A. Bowman, and H. Parker, Williamsport, Pa. Apparatus for cutting and beveling flexible and elastic materials	358,067	Feb. 22	1925	508	38	803
Parker, Jonas, and M. L. Gunning, assignors to Paragon Shoe Cutter Company, (limited,) Williamsport, Pa. Beveling and scarfing machine	373,943	Nov. 29	2496	{ 670 671	{ 41	974
Parker, Joseph N., Vineland, N. J. Pruning-shears	369,205	Aug. 30	2667	709	40	997
Parker, Norman S., Salem, Oreg. Two-wheeled vehicle	375,565	Dec. 27	1982	516	41	1456
Parker, Robert T., Fairfield, Nebr. Pool-table ball-carrier	357,853	Feb. 15	1625	422	38	742
Parker, Russell, Brooklyn, N. Y. Fountain-syringe	356,544	Jan. 25	1782	464	38	362
Parker, Russell, assignor to Parker, Stearns & Sutton, Brooklyn, N. Y. Stop-cock for flexible tubes	355,467	Jan. 4	223	60	38	45
Parker, Samuel J., assignor to E. J. Parker, J. L. Ross, and L. A. Morgan, Rochester, N. Y. Regulator for feed-water	356,373	Jan. 18	1540	405	38	310
Parker, Stearns & Sutton. (See Parker, Russell, assignor.)						
Parker, Stearns & Sutton. (See Sutton, Benjamin F., assignor.)						
Parker, Thomas, Menomonee, Wis. Sluiceway and flood gate	372,040	Oct. 25	1881	{ 485 486	{ 41	393
Parker, William, Cambridgeport, Mass. Spindle for forming tubes of veneering	368,606	Aug. 23	1833	490	40	826
Parker, William D., Worcester, Mass. Valve-action for musical instruments	355,336	Jan. 4	61	17, 18	38	13
Parker, William D., Worcester, Mass. Coupler for musical instruments	365,092	June 21	1294	{ 342 343	{ 39	1345
Parker, William D., assignor to Munroe Organ Reed Company, Worcester, Mass. Pneumatic action for musical instruments	368,164	Aug. 9	1187	{ 317 318	{ 40	685
Parker, William D., assignor to Munroe Organ Reed Company, Worcester, Mass. Pneumatic action for musical instruments	368,165	Aug. 9	1191	{ 318 319	{ 40	685
Parker, William J. H. (See Walker, William V., assignor.)						
Parker, William S., Laingsburg, Mich. Middlings-purifier	367,116	July 26	1865	{ 504 505	{ 40	377
Parker, William S., D. H. Blood, and O. F. Tower, Laingsburg, Mich. Shaking bolt	356,781	Feb. 1	50	14, 15	38	433
Parker, William S., D. H. Blood, and O. F. Tower, Laingsburg, Mich. Grading-machine	356,782	Feb. 1	52	15, 16	38	433
Parker, William T., Eureka, Ind. Adjustable harrow	358,622	Mar. 1	305	73	38	960
Parker, William W., Richmond, Va. Life-boat	375,566	Dec. 27	1983	{ 516 517	{ 41	1456
Parker, Willis D., Delphi, Ind. Device for bending and drying carriage poles and thills	358,692	Mar. 1	407	98	38	979
Parkerson, Marcus W., Guilford, Ill. Horseshoe	365,403	June 28	1755	455	39	1444
Parkhill, Hugh H., Vanderbilt, Pa. Apparatus for raising dough	371,702	Oct. 18	1377	355	41	287
Parkhurst, Arthur W. (See Billings and Parkhurst.)						
Parkhurst, Arthur W., assignor to L. C. Billings and F. E. Kaley, Milford, N. H. Bobbin-stand	363,671	May 24	2273	589	39	926
Parkhurst, Edward B., Woburn, Mass. Wire-nail machine	365,855	July 5	135	36, 37	40	27

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Parkhurst, Emmons M., Philadelphia, Pa., assignor to Champion Shoe Burnishing Machine Company. Burnishing-machine for boots or shoes	363,537	May 24	2083	540	39	889
Parkinson, Joseph, Bradford, county of York, England. Vise	361,445	Apr. 19	1510	390	39	297
Parkinson, Joseph G., Cincinnati, Ohio, and S. D. Locke, Hoosick Falls, N. Y. Copy-holder	375,425	Dec. 27	1790	468	41	1418
Parks, Benjamin F., Fresno, Cal. Combined plow and seeder	369,409	Sept. 6	136	39	40	1058
Parks, Charles D., Saranac, assignor of two-thirds to R. D. and C. W. Parks, Mecosta, Mich. Sprinkler	358,693	Mar. 1	408	98	38	979
Parks, Clarence W., <i>et al.</i> (See Parks, Charles D., assignor.)						
Parks, Clarence W., Mecosta, Mich. Ventilating attachment for stove-pipes	368,231	Aug. 16	1308	345	40	714
Parks, George W., and Z. C. Mathes, Scottsburg, Ind. Railway cattle-guard	367,437	Aug. 2	107	29	40	471
Parks, John W., and P. G. Roquemore, Marshall, Tex. Nut-lock	374,426	Dec. 6	364	96	41	1116
Parks, Joseph L., Toledo, Ohio. Door-hanger	367,998	Aug. 9	967	259	40	643
Parks, Lewis F., Cincinnati, Ohio. Tenoning-machine	374,425	Dec. 6	363	95	41	1115
Parks, Nathan E., St. Charles, Ill. Horn-tip	365,856	July 5	140	37	40	28
Parks, Robert D., <i>et al.</i> (See Parks, Charles D., assignor.)						
Parks, William R., Palmer, Mass. Steam and hot-water boiler	364,848	June 14	931	246	39	1269
Parks, William T., Lagrange, Ind. Window fly-trap	356,374	Jan. 18	1542	405	38	310
Parmelee, James, Grinnell, Iowa. Road-grading machine	368,779	Aug. 23	2078	550	40	872
Parmelee, Arthur W., Worcester, Mass. Machine for making wire staples	362,530	May 10	646	182	39	603
Parmelee, John W., Englewood, Ill. Concentrating gold	359,627	Mar. 22	1779	453	38	1262
Parmelee, John W., Englewood, Ill. Concentrator	373,600	Nov. 22	2011	533	41	871
Parmelee, Justin, Chicago, Ill. Art of molding	366,869	July 19	1536	412		
Parmelee, Justin, Chicago, Ill. Appliance for the art of molding	374,000	Nov. 29	2577	693	41	990
Parmelee, William H., Durhamville, N. Y. Device for removing faucets from casks	365,404	June 28	1756	455	39	1444
Parmenter, Isaac W., <i>et al.</i> (See Elliott, Charles W., assignor.)						
Parmenter, Jennie T., <i>et al.</i> (See Parmenter, Orville L., assignor.)						
Parmenter, Orville L., assignor, by mesne assignments, to J. E. Keithly, Cincinnati, Ohio. Machine for the printing of cigar-tags	367,117	July 26	1867	505	40	377
Parmenter, Orville L., assignor to C. D. Hatch, J. R. Price, and J. T. Parmenter, Cleveland, Ohio. Material for egg-crates	374,849	Dec. 13	969	253	41	1244
Parmentier, Charles, Louvain, Belgium. Manufacture of lubricating-journals	361,318	Apr. 19	1338	344	39	265
Parnell, Elizabeth B., Sydney, New South Wales. Treating certain descriptions of auriferous and argentiferous material, &c	360,904	Apr. 12	724		39	141
Parnell, George T., London, county of Middlesex, England. Steam-actuated valve	375,091	Dec. 20	1346	351	41	1323
Parnell, John, Grayson, Cal. Traveling thrasher	366,242	July 12	680	184	40	136
Parnell, William R., assignor of one-half to W. D. McNeill, Tinnsville, Miss. Combined cultivator and planter	363,299	May 17	1733	453	39	814
Parr, Ellis, London, county of Middlesex, England. Musical box	359,278	Mar. 15	1229	320		
Parr, Ellis, London, county of Middlesex, England. Automatic musical instrument	359,279	Mar. 15	1230	320	38	1144
Parr, Joseph. (See McCollum and Parr.)						
Parrish, Edward W., Hico, Ky. Hopple	369,548	Sept. 6	319	88	40	1095
Parrish, James F., assignor of one-half to F. B. Bradley, Peoria, Ill. Broom	366,682	July 19	1288	344	40	261
Parrish, Rufus, Troyville, N. C. Hoof-trimming machine	363,256	May 17	1675	439	39	803
Parrott, John J. H., Chicago, Ill. Draft-equalizer	374,620	Dec. 13	651	170	41	1182
Parrott, Richard D. A., Greenwood Iron Works, N. Y. Composition for mineral wool	372,486	Nov. 1	295		41	527
Parry, Charles T., <i>et al.</i> (See Vaucrain, Samuel M., assignor.)						
Parry, David M., Indianapolis, Ind. Planter	374,316	Dec. 6	210	56	41	1085
Parry, William H., New York, N. Y. Templet for use in gaining stair-stringers	374,493	Dec. 6	462	119	41	1134
Parshall, Thomas W., Brooklyn, N. Y. Cloth-cutting machine	369,466	Sept. 6	214	60	40	1073
Parsons, Frank R., Providence, R. I. Manufacture of combined needle and thread	363,478	May 24	1990	519	39	872
Parsons, George F. (See Ga Nun and Parsons.)						
Parsons, Henry, Marlborough, Mass. Machine for cutting leather or other materials	368,108	Aug. 9	1114	295	40	671
Parsons, Horace W., Wamego, Kans. Dental apparatus	362,310	May 3	334	92		
Parsons, Isaac B., assignor of one-third to W. H. Fellows, Larimore, Dak. Ter. Straw-bucker	360,615	Apr. 5	325	80	39	62
Parsons, James I. (See Little and Stoddard, assignors.)						
Parsons, John G., Cleveland, Ohio. Two-wheeled vehicle	362,777	May 10	1023	278	39	670
Parsons, Paul J., assignor of two-thirds to J. A. Avery and J. Scholl, Philadelphia, Pa. Mechanism for extinguishing fires in malt, grain, or other mills	374,157	Nov. 29	2802	752	41	1033
Parsons, Thomas J. (See Borland and Parsons.)						
Parsons, Winslow R., assignor to H. C. Goodrich, Chicago, Ill. Presser-foot for sewing-machines	356,849	Feb. 1	149	40	38	450
Parsons, Winslow R., Waterloo, Iowa, assignor to H. C. Goodrich, Chicago, Ill. Ruffler attachment for sewing-machines	375,681	Dec. 27	2157	561	41	1487
Parton, George. (See Noel and Parton.)						
Patrick & Carter. (See Carter, Franklin S., assignor.)						
Partridge, Andrew, Springfield, Mass., assignor to Kampfe Bros., New York, N. Y. Safety-razor	361,234	Apr. 12	1228	312	39	233
Partridge, Andrew, Springfield, assignor of one-half to S. P. Weld, Bonds Village, Mass. Wheel	375,682	Dec. 27	2158	562	41	1487
Partridge, Charles S. (See Lloyd and Partridge.)						
Partridge, Ebenezer, Edgbaston, Birmingham, England. Axle-clip for vehicles	366,425	July 12	907	245	40	180
Partridge, Samuel. (See Hampton, Joseph, assignor.)						
Partridge, William, Allegheny City, Pa. Machine for molding bricks	368,487	Aug. 16	1666	444	40	785
Partz, August F. W., Philadelphia, Pa. Voltaic battery	362,531	May 10	649	183	39	603
Passmore, Everett G., Haverford College, Pa. Lawn-mower	374,808	Dec. 13	914	239	41	1234
Passow, Charles. (See Massmann, Henry, assignor.)						
Patch, Benjamin F., assignor of one-half to J. C. Butler, Danvers, Mass. Burnishing-machine	362,036	Apr. 26	2370	618	39	462
Pate, Travis, Donaho, South Carolina. Plow	359,465	Mar. 15	1496	383	38	1194
Patee, Theodorus H., and S. R. Lawshe, Greencastle, Ind. Lightning-rod standard or brace	359,940	Mar. 22	2263	569	38	1349
Paterson, Andrew, McKeesport, Pa. Tubular axle and manufacturing the same	367,438	Aug. 2	107	30	40	471
Paterson, Andrew, assignor to National Tube Works Company, McKeesport, Pa. Machine for forming wagon-axles	374,694	Dec. 13	747	197	41	1202
Paterson, William A., Flint, Mich. Side-spring vehicle	356,954	Feb. 1	292	81	38	476
Pathie, William, Worcester, Mass. Casting lettered plates	360,905	Apr. 12	725	191	39	142
Paton, William, Chicago, Ill. Mechanism for operating the valves of faucets, &c	368,849	Aug. 23	2179	578	40	892
Patie, Charles E., Springfield, Ohio. Seeding-machine	367,231	July 26	2035	548	40	409
Patrick, Armena. (See Tousley, Miron G., assignor.)				549		
Patrick, John J. R., Belleville, Ill. Artificial tooth	373,302	Nov. 15	1548	408	41	773

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Patrick, John J. R., Belleville, Ill. Dental pliers	373,682	Nov. 22	2127	569	41	897
Patrick, John J. R., Belleville, Ill. Rubber-dam and tape holder	373,683	Nov. 22	2128	570	41	897
Patrick, John J. R., Belleville, Ill. Making crowns for teeth	373,751	Nov. 22	2218	594	41	914
Patrick, Joseph, Frankfort-on-the-Main, Germany. Automatic lubricator	360,243	Mar. 29	2764	702	38	1448
Patrick, Marcus C., assignor of one-half to J. M. Wier, Muscatine, Iowa. Mitering-machine	356,326	Jan. 18	1476	389	38	297
Patrick, Orlando, assignor of one-half to C. Ross, Shelbyville, Ind. Washing-machine.....	371,351	Oct. 11	873	224	41	178
Patrick, Zorah E. (See Cheltz, Charles D., assignor.)						
Patrick, Zorah H. (See Cheltz, Charles D., assignor.)						
Patten, Edward K., Utica, N. Y. Jointing and trimming machine	357,622	Feb. 15	1280	336	38	678
Patten, F. Jarvis, Fort Sidney, Nebr. Cuff-button	356,423	Jan. 18	1613	423	38	323
Patten, F. Jarvis, Fort Sidney, Nebr. Electrical-annunciator call system.....	369,810	Sept. 13	678	184	40	1172
Patten, F. Jarvis, Fort Sidney, Nebr. Electric motor or dynamo-electric machine.....	374,621	Dec. 13	652	170	41	1182
Patten, Jefferson, assignor to C. C. Elger, Brooklyn, and W. D. Elger, New York, N. Y. Clamping device	361,777	Apr. 26	1986	518	39	393
Patten, Johanna, Crown Point, Ind. Combined suspensory bandage and truss.....	356,497	Jan. 25	1721	449	38	352
Patten, William A., Ansonia, Conn. Suspending device	374,809	Dec. 13	916	239	41	1234
Pattenger, Cyrus, assignor of one-half to J. H. Davis, Cincinnati, Ohio. Fruit-drier.....	365,319	June 21	1621	422	39	1406
Patterson, Alexander, assignor of one-half to Penn & Lee, Syracuse, N. Y. Combination-tool	361,446	Apr. 19	1511	390	39	297
Patterson, Arthur H., assignor of two-thirds to E. D. Roth, Fort Collins, Colo., and W. F. Cody, North Platte, Nebr. Weighing attachment for wagons.....	357,854	Feb. 15	1626	422	38	742
Patterson, C. Godfrey. (See Blanchard, Virgil W., assignor.)						
Patterson, Charles A., assignor of one-third to J. E. Patterson, Detroit, Mich. Desk for telephone use	357,687	Feb. 15	1383	{ 363 } { 364 }	{ 38 }	697
Patterson, Charles R., Greenfield, Ohio. Thill-coupling	364,849	June 14	932	246	39	1269
Patterson, Charles R., Greenfield, Ohio. Thill-coupling	366,604	July 12	1174	315	40	232
Patterson, Clarence E., Brooklyn, N. Y. Apparatus for cutting bogs	359,541	Mar. 15	1621	415	38	1217
Patterson, Darius, Richland, Ind. Combined hame-hitch and collar-fender.....	374,622	Dec. 13	654	170	41	1182
Patterson, Edwin D., and J. T. Webster, Haywood, N. C. Cotton-chopper	356,424	Jan. 18	1614	{ 423 } { 424 }	{ 38 }	323
Patterson, James K., Crete, Nebr. Weather-strip for doors.....	372,084	Oct. 25	1954	503	41	406
Patterson, John E. (See Patterson, Charles A., assignor.)						
Patterson, John H., et al. (See Loftus, James, assignor.)						
Patterson, John H., and I. P. Davis, assignors to National Cash Register Company, Dayton, Ohio. Fare register and indicator	362,176	May 3	167	49	39	505
Patterson, John K. (See Patterson, Orvice K., assignor.)						
Patterson, Lemuel, assignor of one-half to J. Hagan, Olean, N. Y. Air-spring bottom for beds.....	362,532	May 10	650	183	39	603
Patterson, Orvice K., Willis Grove, assignor of one-half to J. K. Patterson, Petersburg, Ind. Combined square and bevel.....	360,465	Apr. 5	97	25	39	19
Patterson, Samuel S., Wilkes-Barré, Pa. Combined key-hole guide and escutcheon.....	364,850	June 14	933	247	39	1270
Patterson, William E. (See Gracey, Robert, assignor.)						
Patterson, William M., et al. (See McCall, James R., assignor.)						
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Insulating telegraph-cables	356,156	Jan. 18	1243	329	38	253
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Manufacture of telegraph-cables.....	356,206	Jan. 18	1301	344	38	264
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Insulating electric conductors	356,207	Jan. 18	1302	344	38	264
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Making impervious the joints of the lead pipe of electric cables.....	369,121	Aug. 30	2568	682	40	976
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Test-circuit for telephone-cables	369,122	Aug. 30	2569	683	40	976
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Insulating telegraph-cables	369,259	Aug. 30	2735	729	40	1010
Patterson, William S., Allegheny City, Pa. Gas-regulator.....	370,886	Oct. 4	211	54	41	41
Patterson, William W., Pittsburg, Pa. Snatch-block	360,041	Mar. 29	2435	619	38	1388
Pattison, Allen S., Cambridge, Md. Copy-holder for type-writing machines.....	359,466	Mar. 15	1497	{ 383 } { 384 }	{ 38 }	1194
Pattison, Allen S., Cambridge, Md. Cuff-holder	365,626	June 28	2086	544	39	1508
Pattison, Henry, St. John, New Brunswick, Canada. Combined press and seaming machine.....	359,280	Mar. 15	1231	320	38	1144
Patton, Addison C., Abilene, Kans. Hot-air furnace.....	370,649	Sept. 27	1948	{ 515 } { 516 }	{ 40 }	1423
Patton, Austin B., and R. S. Conner, Park City, Utah Ter. Railway-signal	375,649	Dec. 27	2104	548	41	1477
Patton, John H., et al. (See Patton, William P., assignor.)						
Patton Motor Company. (See Patton, William H., assignor.)						
Patton, Thomas, Philadelphia, Pa. Attachment for broken axles.....	374,200	Dec. 6	49	12	41	1056
Patton, Thomas B. (See Jacob and Patton.)						
Patton, William H., assignor to Patton Motor Company, Pueblo, Colo. Motor for street-cars	374,081	Nov. 29	2698	724	41	1014
Patton, William P., assignor of three-fourths to W. T. Sr., and W. T. Hildrup, Jr., J. H. Patton, Harrisburg, Pa., and S. W. Tullock, Washington, D. C. Car-heater.....	368,488	Aug. 16	1667	{ 444 } { 445 }	{ 40 }	785
Patton, William P., assignor of three-fourths to W. T. Sr., and W. T. Hildrup, Jr., J. H. Patton, Harrisburg, Pa., and S. W. Tullock, Washington, D. C. Car-heating apparatus.....	368,489	Aug. 16	1671	{ 445 } { 446 }	{ 40 }	786
Pattrell, Cary, Derrick City, Pa. Gas-regulator.....	369,467	Sept. 6	215	60	40	1074
Patullo, George H., assignor of one-half to M. Garland, Bay City, Mich. Fuel-feeder for boiler apparatus	364,851	June 14	934	247	39	1270
Patzer, William, assignor to Meriden Bronze Company, Meriden, Conn. Lamp-standard ..	373,303	Nov. 15	1548	409	41	773
Patzer, William, assignor to Meriden Bronze Company, Meriden, Conn. Lamp-standard ..	373,304	Nov. 15	1549	409	41	774
Paul, Charles M., and E. T. Deely, Sandusky, Ohio. Napkin-holder	360,464	Apr. 5	97	25	39	19
Paul, Jabez H., Minneapolis, Minn. Blank-cabinet	372,383	Nov. 1	150	43	41	498
Paul, Joseph, assignor of three-fourths to T. A. Taylor, Toledo, Ohio. Grain-polisher	373,534	Nov. 22	1921	509	41	855
Paulmier, Stephen H., Madison, N. J. Key-fastener	369,468	Sept. 6	216	61	40	1074
Pauly, Adolph, West Somerville, Mass. Cabinet-bath	356,545	Jan. 25	1783	464	38	363
Pauthonier, Casimir, 17 Rue Danton, Levallois-Perret, Seine, France. Repairing incandescent-electric-lamp filaments	363,909	May 31	2608	677	39	994
Paxson, Isaiah, New York, N. Y. Underground conduit	361,319	Apr. 19	1339	344	39	265
Paxton, John B., Philadelphia, Pa. Cam-cylinder for knitting-machines	359,325	Mar. 15	1291	335	38	1156
Payne, Anson W., Maine, N. Y. Punching device.....	370,813	Oct. 4	83	22	41	18
Payne, Benjamin N., Elmira, N. Y. Lubricator.....	358,476	Mar. 1	80	20	38	918
Payne, Frank, East Portland, Oreg. Pulverizing-machine.....	358,294	Feb. 22	2243	592	38	862
Payne, George A. (See Payne, Sylvanus B., assignor.)						
Payne, George W., Little Neck, N. Y. Road-cart.....	357,501	Feb. 8	1086	287	38	633
Payne, Huldah, Mount Vernon, Ohio. Bustle.....	368,000	Aug. 9	970	260	40	644

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Payne, James B., Blanco, Cal. Animal-exterminator.....	356,498	Jan. 25	1721	450	38	352
Payne, Orlando F., and J. C. Krisher, Abilene, Kans. Pump.....	373,903	Nov. 29	2446	656	41	964
Payne, Simeon R. (See Wertz, Daniel, assignor.)						
Payne, Sylvanus B., Ridgeville, assignor of one-half to G. A. Payne, Winchester, Ind. Instrument for treating piles.....	362,778	May 10	1024	278	39	670
Payne, Walter S., Fostoria, Ohio. Gate-valve.....	374,695	Dec. 13	751	197	41	1203
Paynter, Edward P., Jr., assignor of one-half to J. K. Moore, Philadelphia, Pa. Union for steam-pipes.....	367,725	Aug. 2	568	155	40	558
Paynter, Jacob L., assignor of one-half to J. P. Kyte, Salem, Ind. Pulverizing-cultivator.....	360,109	Mar. 29	2564	651	38	1411
Payson, Edward, Chicago, Ill. Transom-lifter.....	355,949	Jan. 11	936	244	38	190
Peace, H. W., <i>et al.</i> (See Boynton, Alfred, assignor.)						
Peace, John G., Salem, Mo. Knockdown folding bed.....	356,010	Jan. 11	1019	268	38	206
Peachey, John D., Denver, Colo. Electrical call system.....	356,850	Feb. 1	151	40, 41	38	450
Peacock, George, Selma, Ala. Car-wheel.....	359,174	Mar. 8	1076	280	38	1109
Peacock, Jacob S., Lancaster, Pa. Traction-wheel.....	366,243	July 12	681	{ 184 } { 185 }	{ 40 }	136
Peacock, James H., <i>et al.</i> (See Miller, James P., assignor.)						
Peak, Clarence L., Binghamton, N. Y. Folding music stand and rack.....	359,811	Mar. 22	2057	521	38	1312
Peak, Robert H., Orlando, Fla. Dental anodyne or local anæsthetic.....	357,784	Feb. 15	1536		38	724
Peake, Walter, New York, N. Y. Coin or ticket receiving turnstile.....	364,852	June 14	937	{ 247 } { 248 }	{ 39 }	1270
Pearce, Edward H., Birmingham, county of Warwick, and J. Hulls, Balsall Heath, county of Worcester, England. Apparatus for beveling small pieces of glass.....	369,074	Aug. 30	2507	665	40	964
Pearce, Frederick, assignor to W. B. Sterrett, New York, N. Y. Railway-signal.....	372,865	Nov. 8	881	{ 235 } { 236 }	{ 41 }	642
Pearce, Frederick, New York, and J. Jones, Brooklyn, N. Y. Transmitting signal-instrument.....	358,694	Mar. 1	409	98	38	980
Pearce, Frederick, New York, and J. Jones, Brooklyn, N. Y. Lock for alarm-boxes.....	360,906	Apr. 12	727	191	39	142
Pearce, George W., assignor, by mesne assignments, to J. Pearce, Philadelphia, Pa. Parasol-holder for baby-carriages.....	373,477	Nov. 22	1818	484	41	837
Pearce, James E., Maidenhead, county of Berks, England. Primary voltaic battery.....	356,261	Jan. 18	1374	363	38	279
Pearce, Jennie. (See Pearce, George W., assignor.)						
Pearce, John R., assignor of one-fourth to J. Evans, Louisville, Ky. Car-heater.....	372,169	Oct. 25	2071	530	41	428
Pearce, Thomas A. (See Egly, John C., assignor.)						
Pearce, William, Plantsville, Conn., assignor, by mesne assignments, to L. J. Gunn, trustee, Greenfield, Mass. Die for forging ox-shoes. (Reissue).....	10,831	Apr. 26	2390	624	39	466
Peard, John, New York, N. Y. School-desk. (Reissue).....	10,825	Apr. 12	1247	318	39	238
Peard, William M. (See Shriver and Peard.)						
Peare, George R., Lynn, Mass. Locking device for carriages.....	369,732	Sept. 13	575	157	40	1153
Pearn, William A., Longsight, Manchester, county of Lancaster, England. Screw-tap chuck.....	357,025	Feb. 1	393	106	38	495
Pearne, Benjamin M., Oxford, N. Y. Tricycle.....	368,607	Aug. 23	1834	490	40	826
Pearsall, Charles W., assignor of one-half to W. B. Kirk, Syracuse, N. Y. Draft-reducer for vehicles.....	356,955	Feb. 1	293	81	38	476
Pearsall, Charles W., assignor of one-half to W. F. Keiffer, Syracuse, N. Y. Rein-holder.....	370,814	Oct. 4	84	22	41	18
Pearsall, Howard D., London, England. Valve.....	373,848	Nov. 29	2365	635	41	949
Pearsall, Isaac E., Troy, Pa. Combined ladder, &c.....	358,218	Feb. 22	2141	564	38	843
Pearson, Charles, deceased, and M. Pearson, administratrix, assignors to J. and J. Dobson, Philadelphia, Pa. Loom for weaving double pile fabrics.....	356,011	Jan. 11	1021	{ 268 } { 269 }	{ 38 }	207
Pearson, James T. (See Stafford and Pearson.)						
Pearson, Mary, administratrix. (See Pearson, Charles.)						
Pearson, William B., Jacksonville, Ill. Tablet-binder.....	374,751	Dec. 13	828	217	41	1218
Pearson, William E., Saugus, assignor to N. H. Daniels, Boston, Mass. Heating feed-water.....	371,212	Oct. 11	678	174	41	142
Pearson, William E., Saugus, assignor to N. H. Daniels, Boston, Mass. Means for separating oil and sediment from feed-water.....	374,879	Dec. 13	1013	265	41	1252
Pearsons, Galen W., Kansas City, Mo. Pressure-regulator.....	367,232	July 26	2040	549	40	410
Pearsons, Galen W., Kansas City, Mo. Device for loading and unloading passenger-cars at terminals.....	368,420	Aug. 16	1563	418	40	766
Pease, Allen, Trumansburg, N. Y. Latch.....	360,466	Apr. 5	99	25	39	20
Pease, Charles, Hillsborough, N. H. Embroidery-frame.....	374,623	Dec. 13	655	171	41	1183
Pease, F. Olin, Chicago, Ill. Medicine or merchandise case.....	367,317	July 26	2163	582	40	432
Pease, Frank, Lynn, Mass. Bag-holder.....	368,109	Aug. 9	1116	296	40	671
Pease, John F., Syracuse, N. Y. Hot-air and steam heater.....	362,779	May 10	1025	{ 278 } { 279 }	{ 39 }	670
Pease, John M. (See Avers and Pease.)						
Pease, Robert R., assignor of one-half to H. Roberts, Hartford, Conn. Car-seat.....	357,623	Feb. 15	1282	{ 336 } { 337 }	{ 38 }	679
Pease, William A. (See Caswell, Isaac C., assignor.)						
Pease, William M., Pittsburg, Pa. Electrical device for operating steam-whistles.....	363,079	May 17	1436	380	39	756
Peavey, Andrew J., Somerville, Mass. Tool-handle.....	368,351	Aug. 16	1465	391	40	747
Pecht, Charles, Austin, Tex. Nutshell-cutting machine.....	365,198	June 21	1443	380	39	1373
Peck, Abel, Newburg, N. Y. Sash-balance.....	367,439	Aug. 2	109	30	40	472
Peck, Cassius C., New York, N. Y. Purifying water.....	373,802	Nov. 22	2297	615	41	928
Peck, Daniel B., Jackson, Mich. Dish-washing machine.....	361,320	Apr. 19	1339	{ 344 } { 345 }	{ 39 }	266
Peck, Ezra A., assignor to Plano Manufacturing Company, Plano, Ill. Harvester.....	356,956	Feb. 1	294	81, 82	38	476
Peck, Ezra A., assignor to Plano Manufacturing Company, Plano, Ill. Mechanism for shifting the binder and grain-adjuster in harvesters.....	366,426	July 12	908	{ 245 } { 246 }	{ 40 }	180
Peck, Ezra A., assignor to Plano Manufacturing Company, Plano, Ill. Grain-binder.....	373,601	Nov. 22	2013	534	41	872
Peck, George B., <i>et al.</i> (See Tinkham, George F., assignor.)						
Peck, George W., San Luis Obispo, Cal. Combined blacking-brush and blacking-box.....	374,696	Dec. 13	753	197	41	1203
Peck, Henry L., Columbus, Ohio. Burglar-alarm.....	364,540	June 7	483	{ 130 } { 131 }	{ 39 }	1178
Peck, Henry L., Columbus, Ohio. Car-coupling.....	368,352	Aug. 16	1467	391	40	747
Peck, Stow & Wilcox Company. (See Bayrer, William J., assignor.)						
Peck, Stow & Wilcox Company. (See Stow, Enos E., assignor.)						
Peck, Wells M., Syracuse, N. Y. Shifting-bar for sleighs.....	360,907	Apr. 12	728	192	39	142
Peck, William A., Providence, R. I. Manufacture of rings or chain-links.....	367,923	Aug. 9	853	232	40	623
Peckham Car Wheel Company. (See Peckham, Edgar, assignor.)						
Peckham, Edgar, Syracuse, N. Y. Car-wheel.....	356,885	Feb. 1	204	57	38	459
Peckham, Edgar, Syracuse, N. Y. Car-wheel.....	356,886	Feb. 1	206	58	38	459
Peckham, Edgar, assignor to Peckham Car Wheel Company, Syracuse, N. Y. Car-axle.....	368,547	Aug. 16	1752	466	40	801

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Peckham, Edgar, assignor to Peckham Car Wheel Company, Syracuse, N. Y. Car-wheel.	375,092	Dec. 20	1347	352	41	1323
Peckham, Edgar, assignor to Peckham Car Wheel Company, Syracuse, N. Y. Car-wheel.	375,093	Dec. 20	1349	352	41	1324
Peckham, Edgar, Syracuse, N. Y., assignor, by mesne assignments, to Peckham Car Wheel Company, of New York. Car-wheel.	336,179	July 5	581	156	40	109
Peckham, Edgar, Syracuse, N. Y., assignor, by mesne assignments, to Peckham Car Wheel Company, of New York. Car-wheel.	366,180	July 5	582	156	40	110
Peckham, Edgar, Syracuse, N. Y., assignor, by mesne assignments, to Peckham Car Wheel Company, of New York. Car-wheel.	366,181	July 5	584	156	40	110
Peckham, Edgar, Syracuse, N. Y., assignor, by mesne assignments, to Peckham Car Wheel Company, of New York. Car-wheel.	366,182	July 5	585	157	40	110
Peckham, Edgar, Syracuse, N. Y., assignor, by mesne assignments, to Peckham Car Wheel Company, of New York. Car-wheel.	366,183	July 5	587	157	40	110
Peckham, William M. (See Chambers, Adelbert, assignor.)						
Peckover, James, Philadelphia, Pa. Stone-sawing machine.	366,023	July 5	382	103	40	71
Peckover, James, Philadelphia, Pa. Stone-saw	369,958	Sept. 13	919	244	40	1216
Pedersen, Hans P., Brooklyn, N. Y. Photographic camera	371,352	Oct. 11	874	{ 224 225 }	41	179
Pederson, Ole, Joliet, Ill. Furniture-caster	368,110	Aug. 9	1117	296	40	671
Pederson, Peder O., Albion, Wis. Automatic grain-scale	362,992	May 17	1315	{ 348 349 }	39	731
Pedrick, Joseph B., Columbus, Ind. Corn-planting attachment	356,290	Jan. 18	1423	375	38	288
Peebles, Edwin C., assignor to C. Walton and W. A. Hinsch, Cincinnati, Ohio. Egg-carrier.	355,659	Jan. 4	493	131	38	96
Peel, Robert J., <i>et al.</i> (See Thomas, William D., assignor.)						
Peeling, George C., Lock Haven, Pa. Toboggan-slide.	365,535	June 28	1954	508	39	1484
Peerless Button Hole Attachment Company. (See Johnson, Albert W., assignor.)						
Peerless Manufacturing Company. (See Fitch, William E., assignor.)						
Peerless Reaper Company. (See Slentz, Alburice O., assignor.)						
Peavy, Charles H. (See Stamford and Peavy.)						
Pefley, Peter J., Boise City, Idaho Ter. Girth-buckle for saddles.	362,655	May 10	842	230	39	637
Pefley, Peter J., Boise City, Idaho Ter. Riding-saddle	370,208	Sept. 20	1297	346	40	1294
Pegram, George H., Wilmington, Del. Bridge for elevated railways, &c	359,467	Mar. 15	1502	384	38	1195
Pegues, William T., Mansfield, La. Device for distributing fertilizers	361,543	Apr. 19	1636	424	39	322
Peifer, George W., Jr. (See Johnston and Peifer.)						
Peirce, A. H. (See Brintnall, Thomas M., assignor.)						
Peirce, Andrew J., Madison, Wis. Steam-engine valve	366,870	July 19	1539	413	40	306
Peirce, Charles L., Milwaukee, Wis. Vehicle	359,468	Mar. 15	1503	384	38	1195
Peirce, James S., Portsmouth, N. H. Artificial stone and manufacturing	369,959	Sept. 13	920	244	40	1216
Pelissier, Charles, Concord, N. H. Machine for forming harness-loops	366,024	July 5	382	103	40	72
Pell, Henry W., Rome, N. Y. Spring-vehicle	364,284	June 7	111	32	39	1110
Pell, Reginald B., <i>et al.</i> (See Wilson, Samuel R., assignor.)						
Pelletier, Marx F., Brooklyn, N. Y., and J. Kroc, Philadelphia, Pa. Device for corrugating wash-tubs	370,491	Sept. 27	1716	455	40	1379
Pelletier, Napoleon, Woodhaven, N. Y. Valve for pumps	366,244	July 12	682	185	40	137
Pels, Edward. (See Baynard, William H., Jr., assignor.)						
Pelton, George M., assignor to W. P. and C. E. Clark, Belmont, N. Y. Valve-gear.	374,752	Dec. 13	829	217	41	1218
Pelton, George W., Muscatine, Iowa. Weather-boarding tool.	365,857	July 5	141	37	40	29
Pelton, Leander, Herndon, Iowa. Broom	368,850	Aug. 23	2180	578	40	892
Pember, Ruben R., and E. B. Snedigar, Maynard, Iowa. Pocket writing-case	362,106	May 3	81	25	39	488
Pemberthy Injector Company. (See Desmond, John, assignor.)						
Pemberton, John H., Los Angeles, Cal. Ore-concentrator	368,683	Aug. 23	1939	515	40	847
Pembroke, Daniel S., Kalamazoo, Mich. Two-wheeled vehicle	375,506	Dec. 27	1894	496	41	1439
Pement, Joseph A. (See Earle, Snedigar, and Pement.)						
Pendleton, Edward B. (See Bickmore, Albion P., assignor.)						
Pendleton, John H., <i>et al.</i> (See Weber, Theodor R. A., assignor.)						
Pendleton, John H., Brooklyn, assignor to himself, C. and A. H. Tiers, New York, N. Y. Means for relieving discharge-valves of double-acting pumps	373,478	Nov. 22	1819	484	41	837
Pendleton, John H., Brooklyn, assignor to himself, C. and A. H. Tiers, New York, N. Y. Means for relieving pump-valves	373,479	Nov. 22	1821	485	41	837
Pendry, William A., Detroit, Mich. Balance throttle-valve	360,170	Mar. 29	2660	671	38	1428
Pendry, William A., Detroit, Mich. Balanced throttle-valve	360,171	Mar. 29	2661	671	38	1428
Penfield, Charles R., Rochester, N. Y. Metallic barrel	362,107	May 3	81	25	39	489
Penfield, Charles R., Rochester, N. Y. Machine for jointing and planing staves	374,317	Dec. 6	210	56	41	1085
Penfield, Charles W., New Britain, assignor of one-half to W. F. French, New Haven, Conn. Snap-hook	373,535	Nov. 22	1922	509	41	855
Penfield, James W. and R. C., Willoughby, Ohio. Brick-machine	365,627	June 28	2088	545	39	1509
Penfield, Raymond C. (See Penfield, James W. and R. C.)						
Penfield, William A., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Standard lamp	373,376	Nov. 15	1666	442	41	796
Penfield, William H., Pelhamville, N. Y. Coasting-sled	362,177	May 3	168	49	39	506
Penfield, William H., Pelhamville, N. Y. Car-heating apparatus	374,624	Dec. 13	655	171	41	1183
Penfold, Alexander D., New York, N. Y. Case-seal	361,181	Apr. 12	1146	289	39	217
Penfold, George. (See Penfold, Samuel and G.)						
Penfold, Samuel and G., Guelph, Ontario, Canada. Folding vehicle-seat.	371,622	Oct. 18	1251	325	41	262
Peninsular Novelty Company. (See Taylor, Eugene H., assignor.)						
Peninsular Novelty Company. (See Vinton, John H., assignor.)						
Penley, William G. R., assignor to E. Wolff & Son, London, England. Pen-holder	355,554	Jan. 4	339	90	38	68
Penman, Lancelot T., <i>et al.</i> (See Penman, William, assignor.)						
Penman, William, assignor to himself, W. Gibson, and L. T. Penman, No. 2 Bensham Road, Gateshead-on-Tyne, county of Durham, England. Mold for casting chains.	375,567	Dec. 27	1985	517	41	1456
Penn & Lee. (See Patterson, Alexander, assignor.)						
Pennal, John J. (See Burrell, De Voe, and Pennal.)						
Pennell, Henry C., London, England. Fish-hook	356,499	Jan. 25	1724	450	38	352
Penner, Peter, McCook, Nebr. Harness check-hook	362,533	May 10	651	183	39	603
Penney, Edgar, Waynesborough, Pa. Compressor-pump for refrigerating apparatus	363,672	May 24	2274	{ 589 590 }	39	926
Penney, Edgar, Waynesborough, Pa. Compressor-pump for refrigerating-machines	367,726	Aug. 2	569	155	40	558
Pennie, Henry, assignor of one-half to L. C. Schleip, Brooklyn, N. Y. Insulator for supporting and holding electric wires	359,812	Mar. 22	2059	521	38	1313
Pennington, Belle D., Evansville, Ind. Portable awning	364,853	June 14	937	248	39	1270
Pennington, Henry, Philadelphia, Pa. Window-clock	366,683	July 19	1289	344	40	261
Pennington, Thomas F., Greensborough, Pa. Fire-place front	367,440	Aug. 2	109	30	40	472
Pennock, Frederick M. (See Adams and Pennock.)						
Pennock, George B., Brooklyn, N. Y. Underground conduit for powerful electric currents.	359,738	Mar. 22	1935	491	38	1290
Pennock, Samuel, Kennett Square, Pa. Road-scraping machine	367,659	Aug. 2	449	124	40	536

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Pennsylvania Globe Gas Light Company. (See Dyott, Charles G., assignor.)						
Pennsylvania Steel Company. (See Cummings, Albert G., assignor.)						
Penny, William, assignor to Seabury & Johnson, New York, N. Y. Surgical appliance	363,538	May 24	2085	540	39	890
Pennybacker, Morgan, Washington, D. C. Chair-seat	356,012	Jan. 11	1023	269	38	207
Penrose, Emlen G., H. S. Nutting, and W. H. Smith, Tama City, Iowa. Compound for extinguishing fires	366,126	July 5	517	.....	40	98
Penrose, James W. (See Kellogg and Penrose.)						
Pentz, Levi, assignor of one-half to M. W. Oberlin, Canton, Ohio. Washing-machine	357,966	Feb. 15	1776	466	38	770
Pentz, Levi, assignor of one-half to C. L. Paar, Canton, Ohio. Vehicle-spring	365,483	June 28	1869	485	39	1465
Peoble, Charles W., Troy, N. Y. Folding bedstead	364,285	June 7	113	32	39	1111
Peoble, Charles W., Troy, N. Y. Folding bedstead	368,966	Aug. 30	2350	624	40	934
Peper, Christian, St. Louis, Mo. Cable railway	372,866	Nov. 8	884	{ 236 237 }	{ 41 41 }	{ 642 643 }
Peper, Christian, St. Louis, Mo. Cable railway	372,867	Nov. 8	885	237	41	643
Peper, Christian, and C. O. Sobinski, St. Louis, Mo.; said Sobinski assignor of one-half to said Peper. Track-cleaning attachment for street-cars, &c	372,816	Nov. 8	814	{ 217 218 }	{ 41 41 }	{ 630 630 }
Pepper, William H., assignor of one-half to A. T. L. Davis, Lake Village, N. H. Making cut stockings	372,170	Oct. 25	2072	531	41	428
Pepperling, Fred. N., Stuart, Nebr. Drag-saw	374,994	Dec. 20	1208	314	41	1297
Peppin, John B. (See Cunningham, Samuel M., assignor.)						
Peppin, John B. (See Cunningham and Peppin.)						
Perce, Warren R., et al. (See Feeley, Thomas W., assignor.)						
Percival, Herbert E., Spokane, Wash. Ter., assignor of one-third to M. C. Percival, Lynn, Mass. Clothes-line	370,348	Sept. 20	1485	398	40	1330
Percival, Myron C. (See Percival, Herbert E., assignor.)						
Percy, James, Chicago, Ill. Thill-equalizer for road-carts	358,876	Mar. 8	687	171	38	1035
Perdelwitz, Edgar, Detroit, Mich. Machine for infusing coffee	368,232	Aug. 16	1309	345	40	714
Peregrine, John D., Central City, Colo. Guide for stamp-mills	373,092	Nov. 15	1223	327	41	715
Perfect Block Pavement Company. (See Steinmetz, Martin V. B., assignor.)						
Perham, Haven C., Lowell, Mass., assignor to Kitson Machine Company. Trunk for cotton-openers	365,484	June 28	1870	486	39	1465
Perkins, Albertus D. (See Gillett, Sylvanus M., assignor.)						
Perkins, Campbell & Co. (See Duvall, Anthony F., assignor.)						
Perkins, Charles G., Hartford, Conn. Electric lamp and socket	360,244	Mar. 29	2765	702	38	1449
Perkins, Charles G., Hartford, Conn. Regulator for dynamo-electric machines	361,712	Apr. 26	1896	{ 491 492 }	{ 39 39 }	{ 378 378 }
Perkins, Charles G., Hartford, Conn. Fusible cut-out	361,713	Apr. 26	1898	492	39	378
Perkins, Charles G., Hartford, Conn. Connection for electrical appliances	362,108	May 3	83	25	39	489
Perkins, Duane T., Springfield, Mass. Hydrant	360,245	Mar. 29	2767	702	38	1449
Perkins, Edson A., Holyoke, Mass. Railway-ladder	356,375	Jan. 18	1542	406	38	310
Perkins, Elihu L., assignor to Eagle Lock Company, Terryville, Conn. Lock	359,094	Mar. 8	976	250	38	1090
Perkins, Frank P., assignor of one-half to W. Larder, Brooklyn, N. Y. Roller-awning for windows	364,770	June 14	811	213	39	1247
Perkins, George F. (See Hurley and Perkins.)						
Perkins, George F., and J. P. Hurley, Holyoke, Mass. Electric gas-lighting system	367,841	Aug. 9	736	199	40	600
Perkins, George H., Philadelphia, Pa. Instrument for measuring the viscosity of liquids	358,877	Mar. 8	688	171	38	1035
Perkins, Gustavus S., Hartford, Conn. Pneumatic door-check	360,042	Mar. 29	2436	619	38	1389
Perkins, Henry S., Dunham, Ala. Rotary engine	361,447	Apr. 19	1512	{ 390 391 }	{ 39 39 }	{ 297 297 }
Perkins, James P., Pullman, Ill. Manufacture of paint from recalcined silicate iron slag	363,673	May 24	2275	.....	39	927
Perkins, James P., Pullman, Ill. Composition for the manufacture of bricks, &c	364,854	June 14	939	.....	39	1271
Perkins, James R. (See Oehrle and Perkins.)						
Perkins, Joseph, San Francisco, Cal. Fruit-jar	359,886	Mar. 22	2182	550	38	1334
Perkins, Joseph, San Francisco, Cal. Hose-reel	363,479	May 24	1990	520	39	872
Perkins, Nelson, Big Shanty, Pa. Pump	374,995	Dec. 20	1209	314	41	1297
Perkins, Paul B., North Springfield, Mo. Hydrant	358,567	Mar. 1	233	54	38	947
Perkins, Stephen, assignor of one-half to J. Gilding, New Orleans, La. Device for opening throttle-valves	359,628	Mar. 22	1781	454	38	1262
Perkins & Welsh. (See Ford, Henry B., assignor.)						
Perkins, William W., Palouse, Wash. Ter. Churn	374,753	Dec. 13	830	218	41	1218
Perkins, Willis J. (See Tunmore, William J., assignor.)						
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine	355,710	Jan. 11	568	{ 149 150 }	{ 38 38 }	{ 121 121 }
Perkins, Willis J., Grand Rapids, Mich. Drive-chain	359,029	Mar. 8	897	229	38	1074
Perkins, Willis J., Grand Rapids, Mich. Journal-box	365,199	June 21	1443	381	39	1373
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine	369,811	Sept. 13	681	184	40	1172
Perkins, Willis J., Grand Rapids, Mich. Cramping-check for vehicles	372,702	Nov. 8	618	168	41	597
Perley, Charles S., Philadelphia, Pa. Index	370,280	Sept. 20	1386	372	40	1311
Perreux-Lloyd, J. B., Paris, France. Galvanic battery	358,464	Mar. 1	59	15	38	914
Perrier, Georges, assignor to G. Mermod & Bornaud, Ste. Croix, Switzerland. Music-box	368,304	Aug. 16	1409	372	40	735
Perrin, Charles. (See Flohre and Perrin.)						
Perrin, Frères. (See Raymond, Pierre A., assignor.)						
Perrins, Thomas, assignor of one-fourth to T. A. Harris, Philadelphia, Pa. Metallic door-mat	371,474	Oct. 11	1041	271	41	211
Perrot, Louis A., and H. W. Warrington, Richmond, Va. Rotary engine	369,469	Sept. 6	217	61	40	1074
Perry, Eber. (See Worden, Elmer J., assignor.)						
Perry, Emerson W. (See Potter, Robert A., assignor.)						
Perry, Francis L., Canandaigua, N. Y. Two-wheeled vehicle	356,887	Feb. 1	207	58	38	459
Perry, Francis L., Canandaigua, N. Y. Two-wheeled vehicle	368,001	Aug. 9	971	260	40	644
Perry, George W., Burlington, Ill. Swinging and folding gate	373,752	Nov. 22	2219	594	41	914
Perry, Harvey J., Aurora, Ill. Hose-carriage	362,534	May 10	651	{ 183 184 }	{ 39 39 }	{ 604 604 }
Perry, Isaac A., assignor of one-fourth to A. M. Blair, Wilmington, Del. Railway-rail chair	363,167	May 17	1562	{ 411 412 }	{ 39 39 }	{ 781 781 }
Perry, Isaac A., assignor of one-fourth to A. M. Blair, Wilmington, Del. Permanent way for railways	372,703	Nov. 8	619	168	41	597
Perry, Joseph. (See Gillock, Isaac N., assignor.)						
Perry, Joseph R., Wilkes-Barré, Pa. Piano	356,050	Jan. 11	1075	283	38	217
Perry, Joseph R., Wilkes-Barré, Pa. Damper for pianos	364,601	June 7	558	150	39	1193
Perry, Judson D., Detroit, Mich. Milk-bucket	363,844	May 31	2527	657	39	980
Perry, Manoel, Chelsea, Mass. Barber's apron	371,353	Oct. 11	876	225	41	179
Perry, Nelson W., Norwood, assignor of part to F. Forchheimer and H. J. Groesbeck, Cincinnati, Ohio. Galvanic cell	356,727	Jan. 25	2036	535	38	411
Perry, Safford G., New York, N. Y. Teeth-separator	366,025	July 5	384	103	40	72

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Perry, Sarah A., Ripley, Ohio. Pencil-drawer for school-desks	356,327	Jan. 18	1477	389	38	297
Perry, Stuart. (See Sprague and Perry.)						
Perry, Thomas O., Tecumseh, Mich. Windmill-derrick	375,378	Dec. 27	1731	454	41	1407
Perry, Thomas O., assignor to L. W. Noyes, Chicago, Ill. Grain-harvester	355,660	Jan. 4	494	131	38	96
Perry, Walter A., New Bedford, Mass. Hook for fastening rope	371,475	Oct. 11	1042	271	41	212
Perry, William C., Charlestown, R. I. Car-spring	364,286	June 7	114	32	39	1111
Persch, John, New York, N. Y. Lady's knitted drawers	369,549	Sept. 6	320	88	40	1095
Persch, John, New York, N. Y. Knitted under-garment	374,494	Dec. 6	463	119	41	1134
Pershing, Henry A., South Bend, Ind. Combined petit ledger and blotter	367,924	Aug. 9	856	233	40	623
Pershing, Henry A., assignor, by mesne assignments, to G. A. Baker, South Bend, Ind. Petit ledger	370,349	Sept. 20	1486	398	40	1330
Persohn, John W., McKinney, Tex. Store-awning	369,206	Aug. 30	2668	709	40	997
Peru Plow and Wheel Company. (See Blechschmidt, Gustav, assignor.)						
Peru Plow and Wheel Company. (See Hoagland, William K., assignor.)						
Pesinger, John J., Brooklyn, N. Y. Folding basket	358,295	Feb. 22	2245	593	38	863
Peslin, Fred C., Van Dyne, Wis. Grate	362,311	May 3	335	92, 93	39	539
Pessenger, John S., Brooklyn, N. Y. Spike	370,650	Sept. 27	1949	516	40	1423
Peteler, Francis, Minneapolis, Minn. Car-axle box	369,733	Sept. 13	577	157	40	1153
Peteler, Francis, Minneapolis, Minn. Draw-bar and bumper	369,734	Sept. 13	579	157	40	1153
Peteler, Francis, Minneapolis, Minn. Dumping-car	370,651	Sept. 27	1949	516	40	1423
Peter, Louis H. F., Danbury, Conn. Automatic washer	358,219	Feb. 22	2141	565	38	843
Peters, Christian H., Danville, Ill. Bell-cord coupling	369,123	Aug. 30	2570	683	40	976
Peters, Daniel, Cincinnati, Ohio. Egg beater and mixer	370,406	Sept. 27	1578	422	40	1355
Peters, Daniel, Cincinnati, Ohio. Pug-mill	375,568	Dec. 27	1986	517	41	1456
Peters, Dennis. (See Linden, Peter, assignor.)						
Peters, E. L. (See Hubler, Harvey, assignor.)						
Peters, E. L., et al. (See Martz, Oliver M., assignor.)						
Peters, Franz F., Milwaukee, Wis. Picture-frame	356,328	Jan. 18	1478	389	38	297
Peters, G. Moore, Xenia, Ohio. Cartridge-loading machine	360,043	Mar. 29	2438	620 621 622	38	1389
Peters, J. Wilson, Galloway, Ohio. Car-door	359,281	Mar. 15	1233	320	38	1145
Peters, John W., et al. (See Buchanan, James G., assignor.)						
Peters, Marcus W., Lafayette, N. Y. Traction-engine	363,415	May 24	1892	498	39	852
Peters, Matthias and T. J., and W. John, Chicago, Ill. Machine for spinning and twisting cords	365,447	June 28	1820	473	39	1455
Peters, Norris B. (See Harker, Lewis A. and C. C., assignors.)						
Peters, Richard G., Manistee, Mich. Apparatus for the manufacture of salt	366,026	July 5	385	104	40	72
Peters, Richard G., Manistee, Mich. Discharge mechanism for vacuum-pans	366,505	July 12	1020	278	40	203
Peters, Russell M. (See Clark, Alvah B., assignor.)						
Peters, Theodore J. (See Peters and John.)						
Peterselka, John, Chicago, Ill. Illuminating device for bakers' ovens	361,714	Apr. 26	1899	492	39	378
Petersen, Eduard A. C., assignor of one-half to H. Piper, Chicago, Ill. Baker's oven	363,416	May 24	1893	498	39	853
Petersen, Holger C. E., New York, N. Y. Bin	370,557	Sept. 27	1810	481	40	1396
Petersen, Nicolai, Charleston, S. C. Door-check	375,094	Dec. 20	1350	352	41	1324
Petersen, Niels, Chicago, Ill., and R. Petersen, Racine, Wis. Car-coupling	364,541	June 7	486	131	39	1179
Petersen, Rasmus. (See Petersen, Niels and R.)						
Peterson, Aaron, Rockford, Ill. Wardrobe-bedstead	375,192	Dec. 20	1485	389	41	1351
Peterson, Albert, Detroit, Mich. Combined corner-protector and lock for bags or satchels	372,762	Nov. 8	704	195	41	613
Peterson, Albert H., Philadelphia, Pa. Bottle-stopper	360,467	Apr. 5	100	25	39	20
Peterson, August. (See Bagger, Louis, assignor.)						
Peterson, Axel E., New York, N. Y. Thill-coupling	361,889	Apr. 26	2158	559	39	425
Peterson, Christian, Baltimore, Md. Valve for vacuum-pumps	369,879	Sept. 13	796	213	40	1194
Peterson, James H., Brooklyn, N. Y. Brake for children's carriages	374,001	Nov. 29	2579	693	41	990
Peterson, John, San Francisco, Cal. Wheelbarrow	363,168	May 17	1563	412	39	781
Peterson, John H., Philadelphia, Pa. Nursery-gate	367,162	July 26	1933	521	40	3-9
Peterson, Michael W., et al. (See Thorson, Thor. O., assignor.)						
Peterson, Peter, Reinbeck, Iowa. Journal for milk-separators	359,030	Mar. 8	899	229	38	1075
Peterson, Peter O., San Francisco, Cal. Book-support	362,226	May 3	232	67	39	518
Peterson, Peter S., et al. (See Thorson, Thor. O., assignor.)						
Peterson, Samuel, Annapolis, Md. Oyster-tongs	371,967	Oct. 25	1768	458	41	374
Peterson, Walter, New York, N. Y. Automatic clasp to hang up trousers, &c	355,711	Jan. 11	573	150	38	122
Peterson, William F. (See Caldwell and Peterson.)						
Petesich, Charles N. (See Joyner and Petesich.)						
Pethick, Philip, et al. (See Clough, Willard E., assignor.)						
Petræus, Carl V., Camden, N. J. Making acid potassium phosphates	374,201	Dec. 6	49	.....	41	1056
Petit, Albert O., Chicopee Falls, Mass. Bicycle-brace	359,629	Mar. 22	1781	454	38	1262
Petit, Joseph, Bordeaux, France. Closure for jars	361,369	Apr. 19	1411	364	39	278
Petrie, Peter, Brooklyn, N. Y. Broom-head for track-sweepers	365,628	June 28	2091	545	39	1509
Petrie, William A., Hillsdale, Mich. Hook attachment for doubletrees	366,871	July 19	1541	413	40	307
Pettengill, Albert N., Ilion, N. Y. Fishing-reel	361,890	Apr. 26	2159	560	39	425
Pettibone, Asa G., et al. (See Curry, Lewis M., assignor.)						
Pettibone, Mulliken & Company. (See Cornbrooks, William A., assignor.)						
Pettibone, Mulliken & Company. (See Strom, Axel A., assignor.)						
Pettigrew, Thomas J., Kittery, Me. Locking device for hatches, doors, &c	375,459	Dec. 27	1836	480 481	41	1428
Pettinger, John, Carpenteria, Cal. Axle and wheel	359,403	Mar. 15	1411	362	38	1178
Pettinger, John, Santa Barbara, Cal. Wheel and axle	361,076	Apr. 12	982	249	39	187
Pettinger, John, Santa Barbara, Cal. Car-axle	366,872	July 19	1542	413	40	307
Pettis, Daniel W., East Stockholm, N. Y. Crib or cradle	360,908	Apr. 12	729	192	39	142
Pettis, George C., assignor to Hoggson & Pettis Manufacturing Company, New Haven, Conn. Heel-protector	355,661	Jan. 4	496	132	38	97
Petty, Jacob A. (See Lynch and Petty.)						
Pettys, William H. (See Albee and Pettys.)						
Petzold, Karl A., Wernigerode-on-the-Harz, assignor of one-half to O. Scharow, Bernburg, Germany. Purifier for feed-water	365,093	June 21	1296	343	39	1345
Pew, Joseph N., Pittsburg, Pa. Gas-regulator	355,788	Jan. 11	692	180	38	143
Pew, Joseph N., Pittsburg, Pa. Gas-main	373,093	Nov. 15	1224	327	41	715
Pew, Joseph N., Pittsburg, Pa. Expansion-joint	374,371	Dec. 6	287	76	41	1101
Pewamo Manufacturing Company. (See Randolph, Joseph, assignor.)						
Peyrusson, Antoine E., Limoges, France. Secondary battery or accumulator	368,608	Aug. 23	1836	490 491	40	826
Peyton, Bernard R., San Francisco, assignor of two-thirds to F. Getchell and E. N. Black, Oakland, Cal. Inhaler	371,213	Oct. 11	679	174	41	143

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Pfaff, Adam, Wayland, N. Y. Gang fish-hook	356,661	Jan. 25	1954	513	38	396
Pfandner, Heinrich, Augsburg, Germany. Bridle-bit	356,546	Jan. 25	1784	465	38	363
Pfanschmidt, Dodge & Co. (See Johnston, John S., assignor.)						
Pfau, Jacob, Cincinnati, Ohio. Vapor-burner	358,878	Mar. 8	689	171	38	1035
Pfautz, Daniel M., Philadelphia, Pa., assignor to Philadelphia Locomotive Vehicle and Stationary Motor Company, of New Jersey. Spring-propelled vehicle	357,289	Feb. 8	795	207	38	577
Pfeifer, August F., Newark, N. J. Curtain-pole	367,545	Aug. 2	275	77	40	504
Pfeifer, John, Philadelphia, Pa. Handle for shovels	364,039	May 31	2807	727	39	1033
Pfeiffer, Henry, Philadelphia, Pa. Expansible conductor-pipe	356,888	Feb. 1	208	58	38	459
Pfeil, Herman C., Camden, N. J., assignor to J. Buff, Philadelphia, Pa. Printer's blanket ..	364,287	June 7	114	33	39	1111
Pfennig, Richard. (See Pischon and Pfennig.)						
Pfingsten, Carl G. (See Deutsch and Pfingsten.)						
Pfister, Ami P., Locle, Switzerland. Repeating-watch	368,002	Aug. 9	974	{ 261 262 }	{ 40 }	644
Pfister, Lewis, assignor of two-thirds to L. Clelland and G. G. Harris, Martinsville, Ohio. Attachment for corn-planters	373,094	Nov. 15	1225	327	41	716
Pfleger, John, Minneapolis, Minn. Meadow-planer	367,058	July 26	1781	481	40	361
Pfleggar, Frank P., New Haven, Conn. Polishing-wheel	372,041	Oct. 25	1884	486	41	394
Pfost, George W. (See Fisher, A. Park, assignor.)						
Pheatt, Zebulon C., Toledo, Ohio. Metallic grape-vine tie	362,656	May 10	843	230	39	637
Phegley, William T., Stockton, Kans. Combined smoothing and fluting iron	369,027	Aug. 30	2429	645	40	949
Phelan, George E., New York, N. Y. Billiard-table cushion	359,031	Mar. 8	899	229	38	1075
Phelan, George E., New York, N. Y. Billiard-ball	359,032	Mar. 8	900	229	38	1075
Phelan, Richard M., assignor to Michigan Lubricator Company, Detroit, Mich. Dope-cup ..	361,891	Apr. 26	2159	560	39	427
Phelps, A. M., et al. (See Tinkham, George F., assignor.)						
Phelps, Andrew J., Syracuse, N. Y. Apparatus for sealing packages	358,879	Mar. 8	690	171	38	1036
Phelps, Andrew J., Syracuse, N. Y. Metallic seal	358,880	Mar. 8	692	172	38	1036
Phelps, Andrew J., Syracuse, N. Y. Metallic seal	368,780	Aug. 23	2079	551	40	872
Phelps, Andrew J., Syracuse, N. Y. Apparatus for sealing packages	374,372	Dec. 6	288	76	41	1101
Phelps, Augustus. (See Warner, Ezra J., assignor.)						
Phelps, Don A., Cincinnati, Ohio. Clothes-tongs	361,023	Apr. 12	911	230	39	173
Phelps, Eugene M. (See Thomson and Phelps.)						
Phelps, George H., et al. (See Haynes, Edgar K., assignor.)						
Phelps, George H., et al. (See Preston, Charles A., assignor.)						
Phelps, George H., West Newton, Mass. Tennis-racket	360,468	Apr. 5	101	26	39	20
Phelps, George H., West Newton, Mass. Speaking-tube attachment	360,469	Apr. 5	102	26	39	20
Phelps, George H., Newton, Mass. Cuff-holder	368,305	Aug. 16	1410	372	40	735
Phelps, George H., Newton, Mass. Cuff-holder	368,306	Aug. 16	1411	373	40	736
Phelps, Henry, et al. (See Schad, Barnhard, assignor.)						
Phelps, Joseph P., Muscatine, Iowa. Enameling photographs and other prints	360,909	Apr. 12	730	.....	39	142
Phelps, Lucius J., New York, N. Y. Railway-telegraph	369,880	Sept. 13	797	213	40	1194
Phelps, Lucius J., assignor to C. A. Cheever, trustee, New York, N. Y. Electric rock-drill	366,184	July 5	588	{ 157 158 }	{ 40 }	111
Phelps, Lucius J., New York, N. Y., assignor to Railway Telegraph Company. Railway-telegraphy	355,468	Jan. 4	224	60	38	45
Phelps, Lucius J., New York, N. Y., assignor to Railway Telegraph Company. Railway-telegraphy	355,469	Jan. 4	228	60, 61	38	46
Phelps, Lucius J., New York, N. Y., assignor to Railway Telegraph Company. Railway-telegraphy	355,470	Jan. 4	231	61	38	47
Phelps, Lyman E., Rochelle, R. K. Swift and J. J. A. Zeller, Rock Falls, Ill. Disk-harrow ..	368,609	Aug. 23	1837	491	40	827
Phelps, William D., et al. (See Fiske, George M., assignor.)						
Phelps, William S., and C. D. Drake, Miltonvale, Kans. Churn	362,233	Aug. 16	1310	345	40	715
Phenix, William, Chicago, Ill. Conduit structure for traction-cables	364,288	June 7	115	33	39	1111
Philadelphia Locomotive Vehicle and Stationary Motor Company. (See Pfautz, Daniel N., assignor.)						
Philadelphia Textile Machinery Company. (See Proctor and Knowles, assignors.)						
Philbrick, Josiah J., Mobile, Ala., assignor, by mesne assignments, to Blount Stave Machine Company, Chicago, Ill. Stave-planer	360,616	Apr. 5	326	80	39	62
Philbrick, Josiah J., Mobile, Ala., assignor, by mesne assignments, to Blount Stave Machine Company, Chicago, Ill. Stave-jointing machine	360,617	Apr. 5	327	80, 81	39	62
Philbrick, Josiah J., Mobile, Ala., assignor, by mesne assignments, to Blount Stave Machine Company, Chicago, Ill. Machine for manufacturing barrel-staves	362,901	May 10	1184	{ 317 318 }	{ 39 }	700
Phillion, George. (See Dodge and Phillion.)						
Phillion, George, assignor to Dodge Manufacturing Company, Mishawaka, Ind. Manufacture of wooden pulleys	368,490	Aug. 16	1676	446	40	787
Phillion, George, assignor to Dodge Manufacturing Company, Mishawaka, Ind. Tool for turning the faces of pulley-rims	368,851	Aug. 23	2181	578	40	892
Philip, J. Stuart, Chicago, Ill. Bridge-gate	363,257	May 17	1676	439	39	803
Philips, Ferdinand, Philadelphia, Pa. Machine for barbing and winding wire	366,245	July 12	684	{ 185 186 }	{ 40 }	137
Philips, Robert W., Guelph, Ontario, Canada. Wrench	366,246	July 12	686	186	40	137
Philips, William W., Rawhide, Ala. Horse-detacher	360,324	Mar. 29	2874	731	38	1469
Phillippi, Francis A., assignor of one-half to P. H. Hantsch, Reading, Pa. Stair-rod fastener	357,855	Feb. 15	1627	423	38	742
Phillips, Adelbert H. (See Crommer and Phillips.)						
Phillips, Albert. (See Hurst, Jakob, assignor.)						
Phillips, Charles T., Jordan, N. Y. Pipe-wrench	365,019	June 14	1173	308	39	1313
Phillips, Delia, Los Angeles, Cal. Gage for marking button-holes	365,938	July 5	260	68	40	50
Phillips, Errett E. (See Phillips, John T. and E. E.)						
Phillips, Francis C., Allegheny City, Pa. Obtaining iodine from bittern	356,291	Jan. 18	1424	.....	38	288
Phillips, Francis C., Allegheny City, Pa. Extracting bromine and iodine from bittern ..	356,292	Jan. 18	1426	.....	38	288
Phillips, Francis V., assignor to N. B. Hubbard, Chicago, Ill. Door-check	365,536	June 28	1955	509	39	1484
Phillips, Francis V., assignor of two-thirds to C. H. Smith and J. Hewitt, Chicago, Ill. Mortising-tool	363,080	May 17	1437	380	39	756
Phillips, Francis V., assignor to C. H. Smith and J. Hewitt, Chicago, Ill. Sliding-door latch ..	368,684	Aug. 23	1941	515	40	847
Phillips, Francis V., assignor to Chicago Sash Pulley Company, Chicago, Ill. Sash-cord guide	374,158	Nov. 29	2803	752	41	1033
Phillips, Franklin F., Somerville, Mass., assignor to P. C. Cheney Company, Manchester, N. H. Treating pulp or fibrous material and the resulting material	355,789	Jan. 11	693	180	38	143
Phillips, George, Brooklyn, N. Y. Apparatus for applying postage-stamps and labels	359,326	Mar. 15	1292	335	38	1156
Phillips, George, Brooklyn, N. Y. Adding-machine	367,546	Aug. 2	276	78	40	504
Phillips, George C., Providence, R. I. Water-closet-tank flushing apparatus	364,289	June 7	116	33	39	1111
Phillips, Horace B., and W. M. Whaley, Suffolk, Va., assignors to Curran & Wolff, Chicago, Ill. Lumber-assorter	369,550	Sept. 6	320	89	40	1095

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Phillips, Isaac B., assignor to T. P. M. Bennett, Philadelphia, Pa. Veterinary dental-file carrier	365,485	June 28	1871	486	39	1466
Phillips, Isaac O., Brooklyn, N. Y. Draw-bar for cars	363,539	May 24	2086	540	39	890
Phillips, James, and H. D. Alexander, assignors of one-third to W. J. Piero, Canton, Ohio. End-gate for wagons	361,370	Apr. 19	1412	364	39	278
Phillips, John, deceased, St. Louis, Mo.; M. M. Phillips, administratrix. Crimping-machine	374,082	Nov. 29	2700	{ 724 725 }	{ 41 }	1014
Phillips, John H. (See Heffner and Phillips.)						
Phillips, John T., New Castle, Pa. Automatic railway-gate	363,845	May 31	2528	657	39	980
Phillips, John T. and E. E., New Castle, Pa. Water-back for gas-heaters	373,602	Nov. 22	2015	534	41	872
Phillips, John W., Kalamazoo, Mich. Two-wheeled vehicle	370,815	Oct. 4	85	23	41	19
Phillips, Mary M., administratrix. (See Phillips, John.)						
Phillips, Morris, Detroit, Mich. Car-coupling	370,492	Sept. 27	1717	455	40	1379
Phillips, Nimick & Co. (See Carter, Robert A., assignor.)						
Phillips, Sam, Chicago, Ill. Machine for bending pipe	370,652	Sept. 27	1951	{ 516 517 }	{ 40 }	1423
Phillips, Samuel L. (See Wilcox and Phillips.)						
Phillips, Seva S. (See Lantt, Tilson, assignor.)						
Phillips, Thomas R., Blair, Wis. Separator	356,329	Jan. 18	1479	389	38	298
Phillips, Whipple V. (See Thomas and Phillips.)						
Phillips, William. (See Bardsley and Phillips.)						
Phillips, William, assignor of one-half to W. H. Ewer, Philadelphia, Pa. Can-opener	361,643	Apr. 19	1790	463	39	351
Phillips, William E., Wilmington, Cal. Thrashing-machine feeder	373,944	Nov. 29	2498	671	41	974
Phillips, William J., assignor of one-half to B. F. Hoffman, Simpson, W. Va. Horseshoe	373,904	Nov. 29	2447	657	41	964
Phillips, William P., Boston, Mass. Lubricator	367,059	July 26	1783	481	40	362
Phillips, Wilson H., Hoagland, Pa. Car-coupling	365,149	June 21	1380	365	39	1360
Philpot, Samuel G. (See Austin, Charles E., assignor.)						
Philpott, Henry J., Des Moines, Iowa. Wind-engine	359,282	Mar. 15	1234	321	38	1145
Philpott, Horatio V., Bryan, Tex. Gate	363,964	May 31	2707	{ 701 702 }	{ 39 }	1013
Phoenix Bridge Company. (See Scheidl, Charles, assignor.)						
Phoenix Glass Company. (See Webb, Joseph, assignor.)						
Phoenix Iron Company. (See Heron, Fred, assignor.)						
Pianophone Company. (See Kuster, Charles A., assignor.)						
Piatt, William M., Macocheek, Ohio. Grain-binder	367,441	Aug. 2	110	{ 30 31 32 }	{ 40 }	472
Piatt, William M., assignor of one-third to B. P. Runkle, Mac-o-cheek, Ohio. Grain-binder	374,267	Dec. 6	130	34, 35	41	1072
Picard, Delphis, Montreal, Quebec, Canada. Wood-working machine	362,993	May 17	1316	349	39	731
Picha, John F. (See Nelson, John S., assignor.)						
Pickering, John. (See Saale, Heinrich E. A., assignor.)						
Pickert, Augustus F., Atlanta, Ga. Automatic cut-off	363,965	May 31	2708	702	39	1013
Pickett, David M., Dearborn, Mich. Folding clothes-bar	363,081	May 17	1439	381	39	756
Pickett, Harry W. (See Pickett, William H. and H. W.)						
Pickett, William H. and H. W., Warren, Pa. Pipe-thread protector	372,328	Nov. 1	64	20	41	483
Pickford, George, and E. Jagger, Oldham, county of Lancaster, England. Cap for foot-steps for spinning-spindles	357,226	Feb. 8	711	183	38	562
Pickhardt, Emile, Somerville, Mass. Safety-pin	362,780	May 10	1027	279	39	671
Pickhardt, Emile, Somerville, Mass. Safety-pin	362,781	May 10	1028	279	39	671
Pictet, Raoul P., Geneva, Switzerland. Apparatus for producing cold	372,327	Nov. 1	62	19	41	483
Piel, William, Allegheny, Pa. Pipe-coupling	357,624	Feb. 15	1283	337	38	679
Pieper, Henri, Fils, Liege, Belgium. Electric-arc lamp	362,312	May 3	337	93	39	540
Pierce, Benjamin F., Chesterfield, N. H. Gravity door latch and lock	371,354	Oct. 11	876	225	41	179
Pierce, Charles, and L. H. Smith, assignors to Ithaca Gun Company, Ithaca, N. Y. Lock mechanism for breech-loading guns	369,812	Sept. 13	683	{ 184 185 }	{ 40 }	1172
Pierce, Charles E., New York, N. Y. Automatic fan	370,653	Sept. 27	1953	517	40	1424
Pierce, Christopher C., Herkimer, N. Y. Nest for fowls	370,407	Sept. 27	1580	422	40	1355
Pierce, De Witt C., Willoughby, Ohio. Cultivator	371,355	Oct. 11	877	225	41	179
Pierce, Erastus E., New Brighton, Pa. Horseshoe-nail-finishing machine	363,417	May 24	1894	{ 498 499 }	{ 39 }	853
Pierce, Erastus E., New Brighton, Pa. Machine for forging horseshoe-nails	363,418	May 24	1898	{ 499 500 }	{ 39 }	854
Pierce, Erastus E., New Brighton, Pa. Rope-making machine	365,094	June 21	1297	{ 343 344 }	{ 39 }	1346
Pierce, Frederick L. (See Freeman, Melvin P., assignor.)						
Pierce, George R., assignor of two-thirds to J. C. Gunn and A. L. Maxwell, Knoxville, Tenn. Pruning-shears	367,843	Aug. 9	740	199	40	601
Pierce, George S., and J. T. Snyder, Luzerne, Pa. Sad-iron	365,095	June 21	1300	344	39	1346
Pierce, John H. (See McGrath and Pierce.)						
Pierce, John H., Omaha, Nebr. Combined door-bell and letter-box	361,448	Apr. 19	1514	{ 391 392 }	{ 39 }	298
Pierce, Joseph H., Glenwood Springs, Colo. Hinge	364,290	June 7	117	33	39	1112
Pierce, June A., assignor to himself and J. T. Emerson, Claremont, N. H. Automatic felt or wire guide for paper-making machines	361,892	Apr. 26	2161	560	39	425
Pierce, Ray V. (See Smith, Elmer S., assignor.)						
Pierce, William J. (See Pierce, William L. L. and W. J.)						
Pierce, William L. L. and W. J., San Francisco, Cal. Electro-therapeutic belt	371,356	Oct. 11	878	226	41	179
Piero, William J. (See Phillips and Alexander, assignors.)						
Pierre, Noel, et al. (See Gerard, Fardenad, assignor.)						
Piersol, Jesse J., Tippecanoe, Pa. Low-down harvester-binder	357,026	Feb. 1	395	{ 106 107 }	{ 38 }	495
Pierson, John W., Cleveland, Ohio. Violin	364,291	June 7	118	34	39	1112
Pietschmann, Ferdinand, Berlin, Germany. Mechanical musical instrument	363,480	May 24	1991	520	39	872
Pifre, Abel, Paris, France. Portable engine	374,318	Dec. 6	213	56, 57	41	1086
Pihlström, John S., Chicago, Ill. Window	359,283	Mar. 15	1235	321	38	1145
Pihlström, John S., Chicago, Ill. Panoramic device	371,900	Oct. 18	1671	431	41	346
Pike, Daniel E., New York, N. Y., assignor of one-half to R. W. Pope, Elizabeth, N. J. Printing-telegraph	355,662	Jan. 4	496	132	38	97
Pike, Edward W. (See Bain, Robert E. M., assignor.)						
Pike, Paphro D., Spencer, Mass. Heating and ventilating houses	367,660	Aug. 2	450	124	40	537
Piland, August H., assignor of one-half to G. G. Ellis, Henderson, Ky. Railway-rail joint	359,175	Mar. 8	1077	280	38	1109
Pilert, George P., and W. T. Brown, Catonsville, Md. Coffin-protector	370,408	Sept. 27	1581	422	40	1355
Pilger, George J., et al. (See Quigley, Hugh L., assignor.)						
Pillard, Oliver E., Cambridge, assignor to G. L. Damon, Boston, Mass. Bolt-work for the doors of safes, vaults, &c	356,547	Jan. 25	1785	465	38	363

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Pilling, William. (See Hanson, Albert, assignor.)						
Pillings, George T., Baltimore, Md. Water-engine	361,182	Apr. 12	1147	289	39	218
Pillow, Benjamin A., Richmond, Va. Boot or shoe	367,118	July 26	1868	506	40	377
Pimlot, Joseph A., Augusta, Kans. Harrow for cultivating listed corn	375,379	Dec. 27	1733	455	41	1407
Pinard, Joseph A. A., San José, Cal. Device for testing the speed of hounds	362,396	May 3	451	125	39	563
Pinch, Frank, Sidney, N. Y. Rod-packing	374,905	Dec. 13	1054	276	41	1262
Pinchard, Jean B., Chicago, Ill. Prepared food for horses	355,837	Jan. 11	759		38	155
Pincus, Henry. (See Mestayer and Pincus.)						
Pinder, James, Cleckheaton, county of York, England. Letting-off motion for looms	374,083	Nov. 29	2701	{ 725 726 }	{ 41 }	1015
Pine, J. A. W. (See Rippe, Charles, assignor.)						
Pine, James K. P., Lansingburg, N. Y. Cuff and making the same	360,471	Apr. 5	104	26	39	21
Pine, James K. P., Lansingburg, N. Y. Making cuffs	371,096	Oct. 4	520	131	41	103
Pinel Brothers. (See Pinel, Walter P., assignor.)						
Pinel, Walter P., assignor to Pinel Brothers, Quincy, Mass. Sponge holder or handle	363,674	May 24	2277	590	39	927
Ping, Robert G., assignor of one-half to J. Ballmann, Audubon, Iowa. Churn	357,027	Feb. 1	398	107	38	495
Ping, Robert G., and H. W. Hanna, Audubon, Iowa. Hog and hay rack	366,979	July 19	1676	451	40	333
Pingree, Isaac C., Lawrence, Mass. Snow-plow	355,471	Jan. 4	235	62	38	48
Pinkham, James J., Stillwater, Mont. Ter. Wagon-tire coupling	359,361	Mar. 15	1342	346	38	1165
Pinnell, Jones, assignor of one-half to W. Pinnell, Dunmore, Pa. Sash-weight	360,472	Apr. 5	105	26	39	21
Pinnell, Samuel, Brooklyn, N. Y. Toy carrousal	361,835	Apr. 26	2073	539	39	409
Pinnell, Samuel, Brooklyn, N. Y. Toy	362,397	May 3	453	125	39	563
Pinnell, Wesley. (See Pinnell, Jones, assignor.)						
Pinto, Margaret A. (See Ayer, Henry, assignor.)						
Pintsch Lighting Company. (See Dixon, Robert M., assignor.)						
Piper, Edward S., Toronto, Ontario, Canada. Combined railway-gate and semaphore	363,675	May 24	2277	590	39	927
Piper, Henry. (See Petersen, Eduard A. C., assignor.)						
Pipher, William A., Jasperville, Ind. Device for lifting wagon-bodies from the running-gear	356,157	Jan. 18	1245	329	38	253
Pischon, Hugo, and R. Pfennig, Berlin, Germany. Apparatus for concentrating acids	374,268	Dec. 6	133	36	41	1072
Pitkin, Charles A., Sr., San José, Cal. Fruit-drier	374,697	Dec. 13	753	198	41	1203
Pitkin, Charles A., Sr., San José, Cal. Fruit-drier	374,698	Dec. 13	755	198	41	1204
Pitmon, William W., Waseca County, Minn. Drip-trough for doors and windows	364,434	June 7	317	87	39	1148
Pitney, Albert L., Washington, D. C. Rope or line clasp	357,856	Feb. 15	1628	423	38	742
Pitney, Albert L., Washington, D. C. Rope or line clasp	372,384	Nov. 1	151	44	41	498
Pitrat, Julius E., Gallipolis, Ohio. Weighing and price scales	356,077	Jan. 11	1118	{ 295 296 }	{ 38 }	224
Pittenger, Harry C., Mount Pleasant, Iowa. Spade	357,408	Feb. 8	955	252	38	608
Pittman, Charles L., assignor to Pittman Fire Escape Company, New York, N. Y. Fire-escape	358,125	Feb. 22	2014	{ 529 530 }	{ 38 }	817
Pittman Fire Escape Company. (See Pittman, Charles L., assignor.)						
Pitts, Aurelius V. and M. H., assignors to Pitts Manufacturing Company, Marseilles, Ill. Corn-sheller	361,644	Apr. 19	1791	464	39	351
Pitts Manufacturing Company. (See Pitts, Aurelius V. and M. H., assignors.)						
Pitts, Marcellus H. (See Pitts, Aurelius V. and M. H.)						
Pittsburg Brass Company. (See Hipwell, Thomas, assignor.)						
Pittsburgh Forge and Iron Company. (See Wilson, John T., assignor.)						
Pittsburgh Forge and Iron Company, et al. (See Wilson, John T., assignor.)						
Pittsburgh Steel Casting Company. (See Irwin, John, Jr., assignor.)						
Pittsburgh Supply Company. (See Hyams, Hyam J., assignor.)						
Piver, John W., Americus, Ga. Plow	356,548	Jan. 25	1787	{ 465 466 }	{ 38 }	363
Place, Edwin, Chicago, Ill. Regulator for dynamo-electric machines	369,655	Sept. 6	476	132	40	1125
Place, George. (See Wood, Aurin, assignor.)						
Place, George. (See Wood and Place.)						
Place, John H., assignor of two-thirds to D. R. Alexander and T. P. Matthews, Decatur, Ill. Knitting stockings	356,078	Jan. 11	1120	296	38	225
Place, John H., assignor of two-thirds to D. R. Alexander and T. P. Matthews, Decatur, Ill. Circular-knitting machine	356,079	Jan. 11	1121	{ 296 297 }	{ 38 }	225
Place, John H., assignor of two-thirds to D. R. Alexander and T. P. Matthews, Decatur, Ill. Stocking	356,080	Jan. 11	1124	297	38	225
Place, John H., assignor of two-thirds to D. R. Alexander and T. P. Matthews, Decatur, Ill. Circular-knitting machine	358,983	Mar. 8	837	{ 211 212 }	{ 38 }	1063
Plackard, Edgar S., Elwood, Ind. Fence-machine	365,150	June 21	1381	365	39	1360
Plamondon, Ignace, and M. Palmer, Montreal, Quebec, Canada. Machinery for the manufacture of rubber belting	368,166	Aug. 9	1193	320	40	686
Plamondon Manufacturing Company, A. (See Lott, Charles G., assignor.)						
Plank, David C., assignor of one-half to J. W. Ball, Bryan, Ohio. Road-cart	369,362	Sept. 6	78	24	40	1049
Plano Manufacturing Company. (See Hunt, George G., assignor.)						
Plano Manufacturing Company. (See Ingledue, Harvey R., assignor.)						
Plano Manufacturing Company. (See Peck, Ezra A., assignor.)						
Plant, Increase C. (See Jordan, Jesse, assignor.)						
Plant, Increase C., Macon, Ga. Seal-lock	364,954	June 14	1085	282	39	1297
Plante, Joseph, Levis, Quebec, Canada. Lubricating composition	357,227	Feb. 8	712		38	562
Planthaber, Bernhard H., Milwaukee, Wis. Window-screen	372,562	Nov. 1	410	110	41	549
Platner, Marshal D., Virginia City, Mont. Ter. Cake-mixer	359,887	Mar. 22	2183	550	38	1334
Platner, Marshal D., Virginia City, Mont. Ter. Vegetable-grater	361,595	Apr. 19	1718	444	39	336
Platner, Marshal D., Virginia City, Mont. Ter. Vehicle-brake	374,002	Nov. 29	2580	693	41	990
Plato, Robert, New York, N. Y. Hat	364,129	May 31	2934	762	39	1057
Platt, Aloys, Brooklyn, N. Y. Watch-regulator	357,333	Feb. 8	851	222	38	588
Platt Brothers & Company. (See Platt, Clark M., assignor.)						
Platt Brothers & Company. (See Platt, Lewis A., assignor.)						
Platt, Charles H., New York, N. Y. Cable-railway structure	358,126	Feb. 22	2015	530	38	818
Platt, Clark M., assignor to Platt Brothers & Company, Waterbury, Conn. Machine for feeding and punching scrap sheet metal	366,247	July 12	686	{ 186 187 }	{ 40 }	138
Platt, Jesse. (See Shaw, Cutbirth, and Platt.)						
Platt, Lewis A., assignor to Platt Brothers & Company, Waterbury, Conn. Button	363,676	May 24	2279	591	39	927
Platt, Thomas H., Philadelphia, Pa. Flushing-tank	363,166	May 17	1561	411	39	780
Platt, William H., et al. (See Averell, John D., assignor.)						
Platz, Menelious, Alma, Kans. Cultivator	361,715	Apr. 26	1900	493	39	378
Plaxton, Charles, Winnipeg, Manitoba, and J. Plaxton, Barrie, Ontario, Canada. Sectional boiler	366,248	July 12	688	187	40	138
Plaxton, John. (See Plaxton, Charles and J.)						
Player, John, Marshalltown, Iowa, assignor of one-half to A. Sinclair, Chicago, Ill. Reversing-lever	369,994	Sept. 13	974	257	40	1226

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Pleasance, Benjamin J., assignor of one-half to W. J. McKinnie, Cleveland, Ohio. Track-laying apparatus.....	360,817	Apr. 5	591	155	39	111
Pleukharp, Charles V., Columbus, Ohio. Caster-pod.....	359,362	Mar. 15	1343	347	38	1165
Pleukharp, Charles V., Columbus, Ohio. Caster.....	359,888	Mar. 22	2184	550	38	1334
Plimpton Manufacturing Company <i>et al.</i> (See Wickham, Horace J., assignor.)						
Plum, William R., trustee. (See North, John, assignor.)						
Plumb, Fawcett, Streator, Ill. Wheel-excavator.....	357,939	Feb. 15	1735	453	38	762
Plumb, George E., assignor of five-ninths to M. W. Sheldon, Elmira, and F. M. Sheldon, Hornellsville, N. Y. Carriage-apron.....	364,292	June 7	118	34	39	1112
Plumb, Hiram, Philadelphia, assignor to W. A. Drown, Weldon, Pa. Machine for polishing wooden rods or sticks.....	357,028	Feb. 1	399	107	38	496
Plumb, Hiram, Philadelphia, assignor to W. A. Drown, Weldon, Pa. Machine for polishing wooden rods.....	357,029	Feb. 1	400	{ 107 } 108	{ 38 }	496
Plume & Atwood Manufacturing Company. (See Atwood, Lewis J., assignor.)						
Plume & Atwood Manufacturing Company. (See Atwood and Lewis, assignors.)						
Plume, Frank C., Thomaston, Conn. Coupling for electric conductors.....	359,982	Mar. 22	2331	586	38	1362
Plummer, Benjamin M., Philadelphia, Pa. Belt-stretching machine.....	355,472	Jan. 4	235	62	38	48
Plummer, William L. (See Plummer, William S., assignor.)						
Plummer, William S., Rochester, N. Y. Apparatus for drying malt.....	359,284	Mar. 15	1236	{ 321 } 322	{ 38 }	1146
Plummer, William S., Rochester, N. Y., assignor to W. L. Plummer, Leavenworth, Kans. Fruit-evaporator.....	371,785	Oct. 18	1492	385	41	311
Plunkett, William B. (See Whelan, David, assignor.)						
Pneumatic Machine and Oil Company. (See Boals, James A., assignor.)						
Pneumatic Signal and Telephone Company. (See Maloney, James A., assignor.)						
Poage, James F., La Plata, Mo. Key-board for violins.....	357,409	Feb. 8	956	252	38	608
Pocock, Francis A. (See Hand, Wright, and Pocock.)						
Pocock, Oliver, Cincinnati, Ohio. Machine for bending sheet metal.....	357,228	Feb. 8	713	183	38	562
Podgorski, Casimir M., Northampton, Mass. Temporary bowl for water-closets of railway-cars.....	363,846	May 31	2529	657	39	981
Podgorski, Casimir M., Northampton, Mass., assignor to D. W. Briggs, Saginaw, Mich. Drawing-board.....	370,409	Sept. 27	1583	423	40	1356
Poe, George H., Round Head, Ohio. Windmill.....	372,563	Nov. 1	411	{ 110 } 111	{ 41 }	549
Poetsch, F. Hermann, Aschersleben, Prussia, Germany. Apparatus for making cofferdams for foundations of all kinds.....	367,547	Aug. 2	279	78	40	504
Poetsch, Friedrich H., Sudenburg-Magdeburg, Prussia, Germany. Sinking shafts, building foundations, &c., in aqueous strata.....	363,419	May 24	1901	500	39	854
Pogue, David, Saratoga, Ind. Corn-planter.....	372,564	Nov. 1	413	111	41	549
Polindexter, Robert E., Indianapolis, Ind. Device for dressing the teeth of saws.....	375,650	Dec. 27	2107	548	41	1478
Poister, Charles, Abilene, Kans. Feed mechanism for roller-mills.....	369,551	Sept. 6	323	89	40	1096
Poitevent, Adolph, Gainesville, Miss. Pillow.....	372,763	Nov. 8	705	195	41	613
Polachek, Max. (See Antheunis, Georges, assignor.)						
Poland, Edward F. (See Crawford, Poland, and Robinson.)						
Poland, John C., Boston, Mass. Ironing-machine.....	359,095	Mar. 8	978	250	38	1090
Poland, John C., Boston, Mass. Journal-bearing for centrifugal machines.....	370,887	Oct. 4	213	54	41	42
Pole, Benjamin C., Camden, N. J. Triplex motor for street-railways.....	365,273	June 21	1554	{ 405 } 406	{ 39 }	1393
Pole, Benjamin C., Camden, N. J. Car-starter.....	365,274	June 21	1557	406	39	1394
Pole, Benjamin C., Camden, N. J. Steam-engine.....	371,214	Oct. 11	680	{ 175 } 176	{ 41 }	143
Polhemus, James H., Brooklyn, N. Y. Spokeshave.....	368,003	Aug. 9	978	263	40	645
Police Telephone and Signal Company. (See Mehren and Carroll, assignors.)						
Polifka, William. (See Miller and Kanouse, assignors.)						
Pollak, Karl, assignor to Deutsche Edison Gesellschaft für Angewandte Elektrizität, Berlin, Germany. Electric battery.....	359,690	Mar. 22	1868	{ 474 } 475	{ 38 }	1279
Pollard, Isaac G., Evansburg, Pa. Farrier's tool.....	366,605	July 12	1175	315	40	232
Pollard, Isaac G., assignor of two-thirds to C. G. Wilder, G. B. De Arment, and M. B. Brown, Evansburg, Pa. Combined barrel stand or swing and counter-support.....	357,940	Feb. 15	1737	454	38	763
Pollard, Rebecca S., Chicago, Ill. Educational appliance.....	375,095	Dec. 20	1351	{ 352 } 353	{ 41 }	1324
Pollard, William W., Madison, Wis. Hanging wall-paper.....	361,716	Apr. 26	1902	493	39	379
Pollmann, August. (See Bini, Antonio, assignor.)						
Pollock, Isaac. (See Sink and Pollock.)						
Pollock, James R., Kansas City, Mo. Suspenders.....	375,380	Dec. 27	1734	455	41	1408
Pollock, Joseph, Selma, Ala. Brake-shoe.....	374,427	Dec. 6	365	96	41	1116
Polmateer, William A., assignor to W. S. Northrup, Johnstown, N. Y. Sewing-machine.....	365,486	June 28	1872	486	39	1466
Pomeroy, Charles A., Wauzeka, Wis. Snap-hook.....	372,817	Nov. 8	815	218	41	630
Pomeroy, Isaac, Newark, N. J. Bottle-top.....	373,849	Nov. 29	2366	636	41	949
Pomeroy, Julian. (See Halsey and Pomeroy.)						
Pond, Charles L., Buffalo, N. Y. Metallic seal.....	367,442	Aug. 2	113	32	40	472
Pond, Chester H., Brooklyn, N. Y. Circuit-controller for self-winding clocks.....	362,902	May 10	1190	319	39	701
Pond, Edmund M. (See Pond, Erasmus A. and E. M.)						
Pond, Erasmus A. and E. M., Rutland, Vt. Device for fastening lids of vessels.....	368,491	Aug. 16	1677	446	40	787
Pond, Frank S., Woonsocket, R. I. Coupling for electric or other wires.....	372,637	Nov. 1	523	143	41	570
Pond, James A., Auckland, New Zealand. Coating wood, paper, &c., with impervious enamel.....	372,927	Nov. 8	969	.....	41	658
Pond, Joseph F., Cleveland, Ohio. Gas-stove attachment.....	356,889	Feb. 1	209	58, 59	38	460
Pond, Joseph F., Cleveland, Ohio. Gas-stove.....	358,478	Mar. 1	82	21	38	919
Pond, Nathan C., <i>et al.</i> (See Stevens, John C., assignor.)						
Pond, Orlando M., Independence, Iowa. Wire hoop for barrels.....	372,638	Nov. 1	524	143	41	570
Pond, West & Simons. (See Stevens, John C., assignor.)						
Ponty, Julien, <i>et al.</i> (See Baviile, Edmond P., assignor.)						
Pool, J. George, Mount Carmel, Conn. Cyclometer.....	362,853	May 10	1112	301	39	687
Pool, John F., Mount Carmel, Ill. Sash-fastener.....	368,004	Aug. 9	979	263	40	645
Pool, William. (See Harris and Pool.)						
Poole, C. Clarence, Evanston, assignor to A. L. Ide, Springfield, Ill. Valve for steam-engines.....	369,552	Sept. 6	324	89, 90	40	1096
Poole, Edward, Bath, Me. Reefing and furling sails.....	357,094	Feb. 1	498	132	38	514
Poole, George, Sanford, Me. Loom for weaving pile fabrics.....	369,028	Aug. 30	2430	{ 645 } 646	{ 40 }	950
Poole, William C., and J. Schnepf, New York, N. Y. Electrical annunciator.....	367,925	Aug. 9	857	233	40	623
Pooler, Hiram A. (See Howell and Pooler.)						
Pooler, Manley T., <i>et al.</i> (See Tucker, Rollin D., assignor.)						
Pooley, James B., Philadelphia, Pa. Desk.....	360,473	Apr. 5	106	27	39	21

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Poolman, James, and F. R. Marks, New York, N. Y. Combined operating table and lounge.	357,688	Feb. 15	1384	364	38	697
Poor, Christopher, and C. Woulf, Black River, N. Y. Baling-press.	362,994	May 17	1317	{ 349 350 }	{ 39 }	731
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Brake for locomotives. (Reissue).	10,796	Jan. 11	1135	300	38	227
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Automatic car-brake.	356,231	Jan. 18	1342	{ 353 354 }	{ 38 }	271
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Automatic brake.	356,500	Jan. 25	1725	{ 450 451 }	{ 38 }	352
Poore, James M., Spring Valley, Minn. Combined harrow, smoother, and seeder.	359,363	Mar. 15	1345	347	38	1165
Poore, Townsend, Scranton, Pa. Hoisting apparatus for mines.	359,517	Mar. 15	1588	407	38	1211
Poore, Townsend, Scranton, Pa. Boiler-setting.	365,858	July 5	142	38	40	29
Poorman, Emanuel W., Canton, Ohio. Earth and rock drilling machine.	371,968	Oct. 25	1768	458	41	374
Pope, Edward J., Eau Claire, Wis. Strainer for fluids.	358,749	Mar. 1	483	117	38	993
Pope, Edward W. (See Fowler and Pope.)						
Pope, Everett M., Quincy, assignor to M. Bray, Newton, Mass. Lacing-cord fastener.	368,421	Aug. 16	1565	418	40	767
Pope, Frank L., Elmora, N. J., and H. M. Byllesby and P. Lange, Pittsburg, Pa., assignors to G. Westinghouse, Jr., Pittsburg, Pa. Key-socket for incandescent electric lights.	366,606	July 12	1176	315	40	233
Pope, Frederic, Boston, Mass. Elevator for cash-carrying apparatus.	361,371	Apr. 19	1413	{ 364 365 }	{ 39 }	278
Pope, Frederick H. (See Fox and Pope.)						
Pope, George K. (See Faulkner and Pope.)						
Pope, Harry M., Hartford, Conn., assignor, by mesne assignments, to Pope Manufacturing Company, Portland, Me. Velocipede.	365,702	June 28	2200	{ 574 575 }	{ 39 }	1528
Pope, Harry M., Hartford, Conn., assignor to Pope Manufacturing Company, Portland, Me. Velocipede.	373,850	Nov. 29	2367	636	41	949
Pope, Harry M., Hartford, Conn., assignor to Pope Manufacturing Company, Portland, Me. Velocipede.	375,714	Dec. 27	2199	572	41	1494
Pope, John C., Yorkville, Ill. Door-hanger.	367,318	July 26	2164	582	40	432
Pope, John S., Madison, Dak. Ter. Pad for horse-collars.	366,027	July 5	386	104	40	72
Pope, John T., Missionary, Miss. Car-coupling.	357,785	Feb. 15	1536	400	38	725
Pope Manufacturing Company. (See Copeland, James S., assignor.)						
Pope Manufacturing Company. (See Fowler and Pope, assignors.)						
Pope Manufacturing Company. (See Harrington, John, assignor.)						
Pope Manufacturing Company. (See Hudson, Henry J., assignors.)						
Pope Manufacturing Company. (See Knous, John, assignor.)						
Pope Manufacturing Company. (See Latta, Emmet G., assignor.)						
Pope Manufacturing Company. (See Parker, George A., assignor.)						
Pope Manufacturing Company. (See Pope, Harry M., assignor.)						
Pope Manufacturing Company. (See Rasmussen, Einar, assignor.)						
Pope Manufacturing Company. (See Veeder, Curtis H., assignor.)						
Pope, Ralph W. (See Pike, Daniel E., assignor.)						
Pope, William R., Baltimore, Md. Coin-operated induction-coil.	374,495	Dec. 6	463	120	41	1134
Pope, William W., Tyler Town, Miss. Harrow.	371,275	Oct. 11	767	197	41	159
Popham, Richard M., et al. (See Powell, John B., assignor.)						
Popham, Richard M., et al. (See Roop, Frank, assignor.)						
Popham, Richard M., et al. (See Wrighton, William E., assignor.)						
Popp, Michael, et al. (See Coddington, Frank J., assignor.)						
Popp, Victor, Paris, France. Device for winding up counter-weights.	358,623	Mar. 1	306	73	38	960
Poppert, George, Milwaukee, Wis. Sliding window-blind.	358,477	Mar. 1	81	21	38	919
Poppert, George, Milwaukee, Wis. Guide-frame for sliding window-blinds.	362,854	May 10	1115	301	39	687
Poppert, George, Milwaukee, Wis. Sliding window-blind.	364,955	June 14	1086	283	39	1298
Popular Telephone Company. (See Radford, Cassius M., assignor.)						
Porrera, Enrique, Barcelona, Spain. Glass dish or plate.	357,689	Feb. 15	1385	364	38	697
Porte, James H. and T. J., Picton, Ontario, Canada. Brooch.	363,761	May 24	2405	624	39	951
Porte, Thomas J. (See Porte, James H. and T. J.)						
Porteous, James, Fresno, Cal. Vineyard weed-cutter.	362,227	May 3	233	68	39	518
Porteous, James, Fresno, Cal. Raisin-stemmer.	362,228	May 3	234	68	39	518
Porter, Abraham A., Columbia, assignor of one-half to G. W. West, Rockville, Conn. Lifting and pulling hook.	370,350	Sept. 20	1487	399	40	1331
Porter, Benjamin S., assignor of one-half to N. A. and F. H. Keys, Red Oak, Iowa. Road-cart.	362,460	May 3	549	152	39	580
Porter, Benjamin S. and C. W., Red Oak, Iowa. Two-wheeled vehicle.	375,381	Dec. 27	1735	455	41	1408
Porter, Benjamin S. and C. W., Red Oak, Iowa. Two-wheeled vehicle.	375,382	Dec. 27	1735	455	41	1408
Porter, Benjamin S. and C. W., assignors of one-half to N. A. and F. H. Keys, Red Oak, Iowa. Road-cart.	374,625	Dec. 13	656	171	41	1183
Porter, Charles B., Bay City, Mich. Dental bracket.	365,859	July 5	143	38	40	29
Porter, Charles T., New York, N. Y. Valve for steam-engines.	368,422	Aug. 16	1566	418	40	767
Porter, Clarence W. (See Porter, Benjamin S. and C. W.)						
Porter, D'Arcy, assignor to White Sewing Machine Company, Cleveland, Ohio. Rotary shuttle and mechanism for operating the same.	358,750	Mar. 1	484	118	38	993
Porter, D'Arcy, assignor to White Sewing Machine Company, Cleveland, Ohio. Rotary-shuttle-operating mechanism.	368,967	Aug. 30	2351	624	40	934
Porter, Edward N., Burlington, Vt. Slide for extension-screens.	370,654	Sept. 27	1954	517	40	1424
Porter, Elbert B., Penn Yan, N. Y. Fishing-reel.	374,319	Dec. 6	215	57	41	1086
Porter, Eugene A., Bowling Green, Ky. Corn husking and crushing machine.	360,044	Mar. 29	2446	{ 622 623 }	{ 38 }	1390
Porter, Eugene A., Bowling Green, Ky. Corn splitting and crushing machine.	360,045	Mar. 29	2447	623	38	1391
Porter, J. Wood, Morris, Ill. Paper-folding machine.	364,293	June 7	119	34, 35	39	1112
Porter, James A., Jackson, Mich. Attachment for stoves.	355,885	Jan. 11	837	219	38	170
Porter, John H., Jackson, and P. Miller, Ypsilanti, Mich. Oil-cup.	371,216	Oct. 11	686	176	41	144
Porter, John T. and S. D., Sheffield, Ohio. Sap bucket or pail cover.	359,228	Mar. 8	1160	301	38	1124
Porter, Joseph L., et al. (See Kyle, Robert J., assignor.)						
Porter, Julius H. (See Clark, Council H., assignor.)						
Porter Manufacturing Company. (See Gray and Wright, assignors.)						
Porter, Sidney D. (See Porter, John T. and S. D.)						
Porter, Stephen, assignor to M. A. Kent, Boston, Mass. Glove-fastener.	360,110	Mar. 29	2565	651	38	1412
Porter, Stephen, assignor to M. A. Kent, Boston, Mass. Glove-fastener.	360,111	Mar. 29	2566	652	38	1412
Porter, Thomas. (See Bailey, Henry C., assignor.)						
Porter, Thomas. (See Bailey and Porter.)						
Porter, Thomas, Philadelphia, Pa. Twine holder and lifter.	368,353	Aug. 16	1470	392	40	748
Porter, William H., Washington, D. C. Combined desk and type-writer cabinet.	365,275	June 21	1558	406	39	1394
Porterfield, William A., Bellaire, Ohio. Coin-holder.	367,661	Aug. 2	452	125	40	537
Portois, Peter, San Francisco, Cal. Wheel-fender.	369,553	Sept. 6	328	90	40	1097

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Posner, Morris N., assignor to C. A. Bouton, New York, N. Y. Hair and mustache curler.	364,956	June 14	1087	283	39	1298
Post, Andrew D., Keyport, N. J. Sheet-ring detachor for vessels.	372,085	Oct. 25	1955	504	41	406
Post, Charles N., and G. B. Durkee, assignors to Lyon & Healy, Chicago, Ill. Banjo.	355,337	Jan. 4	65	18	38	14
Post, Charles W., Springfield, Ill. Harrow.	363,762	May 24	2405	624	39	951
Post, Ezra L., New York, N. Y. Machine for testing the friction of metals.	358,164	Feb. 22	2068	544	38	828
Post, James R. (See Lister, John T., assignor.)						
Post, John W., New York, N. Y. Emergency-brake for railway-cars.	365,487	June 28	1873	487	39	1466
Post, John W., New York, N. Y. Railway-car.	365,939	July 5	262	68, 69	40	51
Post, John W., New York, N. Y. Railway-car.	366,249	July 12	689	187 188	40	138
Post, John W., New York, N. Y. Passenger-car.	366,250	July 12	691	188	40	138
Post, John W., New York, N. Y. Sleeping-car.	368,005	Aug. 9	981	263	40	646
Post, John W., New York, N. Y. Operating device for the windows of railway-cars.	369,298	Aug. 30	2794	745	40	1021
Post, John W., New York, N. Y. Station-indicator.	370,410	Sept. 27	1583	423	40	1356
Post, John W., New York, N. Y. Car-heating appliance.	373,567	Nov. 22	1964	522 523	41	861
Post, John W., New York, N. Y., assignor to Model Sewing Machine Company. Sewing-machine stand.	370,888	Oct. 4	214	54	41	42
Post, John W., New York, N. Y., assignor to Childs Sewing Machine Company. Presser-bar lifting and adjusting device for sewing-machines.	373,851	Nov. 29	2368	636	41	949
Post, John W., New York, N. Y., assignor to Childs Sewing Machine Company. Tension device for sewing-machines.	373,852	Nov. 29	2369	636	41	950
Post, L. Hunt, Princeton, N. J. Lace-making implement.	369,075	Aug. 30	2509	665	40	964
Post, Louis. (See Berrenberg, Adolph, assignor.)						
Post, Nathan L., Cleveland, Ohio. Sad-iron handle.	371,215	Oct. 11	685	176	41	143
Postill, Charles G., Great Neck, N. Y. Shoe-lace fastener.	364,294	June 7	123	35	39	1112
Postlethwaite, Miles, Whitehaven, county of Cumberland, England. Stop for double gates.	367,926	Aug. 9	859	233 234	40	623
Postman, Max, New York, N. Y. Cap.	361,717	Apr. 26	1903	493	39	379
Pott, Robert A. (See Gerber, Mahlon A., assignor.)						
Pott, Robert A. (See Gerber, Mahlon A., assignor.) (Reissue.)						
Potter, Albert H., Geneva, Switzerland, assignor to New Haven Watch Company, of New Jersey. Watch-escapement.	360,474	Apr. 5	107	27	39	21
Potter, Albert H., Geneva, Switzerland, assignor to New Haven Watch Company, of New Jersey. Watch.	360,475	Apr. 5	109	28	39	21
Potter, Albert H., Geneva, Switzerland, assignor to New Haven Watch Company, of New Jersey. Combined watch-movement frame and case-body.	360,476	Apr. 5	111	28	39	22
Potter, Albert H., Geneva, Switzerland, assignor to New Haven Watch Company, of New Jersey. Combined watch-case and movement-plate.	360,477	Apr. 5	113	28	39	22
Potter, Albert H., Geneva, Switzerland, assignor to New Haven Watch Company, of New Jersey. Watch-case center and pendant.	360,478	Apr. 5	114	28	39	22
Potter, Albert H., Geneva, Switzerland, assignor to New Haven Watch Company, of New Jersey. Manufacture of watch plates and cases.	360,818	Apr. 5	593	155	39	112
Potter, Albert H., Geneva, Switzerland, assignor to New Haven Watch Company, of New Jersey. Watch.	360,819	Apr. 5	594	156	39	112
Potter, Andrew, and C. H. Betts, assignors to Silver & Deming Manufacturing Co., Salem, Ohio. Double-acting force-pump.	371,518	Oct. 11	1104	287 288	41	224
Potter, Charles, Jr., Plainfield, N. J. Cushioning device for printing-machines.	358,568	Mar. 1	235	54	38	947
Potter, Charles, Jr., Plainfield, N. J. Means for folding paper webs.	374,699	Dec. 13	756	198	41	1204
Potter, Charles A., assignor to American Ship Windlass Company, Providence, R. I. Locking-gear for windlasses.	371,853	Oct. 18	1599	413	41	333
Potter, Dexter B. (See Sweet, Isaac M., assignor.)						
Potter, Herman I., Leonardsburg, Ohio. Tile-ditcher.	363,540	May 24	2087	540 541	39	890
Potter, James C., Lowell, Mass. Evening mechanism for cotton-openers.	375,301	Dec. 20	1623	425	41	1378
Potter, John P., Crawfordsville, Ind. Wagon-bed hoist.	364,728	June 14	732	195	39	1234
Potter, Jonas, Morrellville, assignor to himself and J. J. Strayer, Johnstown, Pa. Splice-bar for railway-rails.	375,193	Dec. 20	1486	389	41	1351
Potter, Jonas, J. W. and W. M. Hess, Morrellville, Pa. Car-coupling.	371,623	Oct. 18	1252	325	41	262
Potter, Mark, Syracuse, N. Y. Car-starter.	355,712	Jan. 11	575	150	38	123
Potter, Mark, Syracuse, N. Y. Railway-rail seat.	360,910	Apr. 12	731	192	39	142
Potter, Morgan, Fishkill-on-the-Hudson, N. Y. Brake-lock.	371,624	Oct. 18	1253	326	41	262
Potter, Morgan, Fishkill-on-the-Hudson, N. Y. Brake-block.	375,383	Dec. 27	1736	456	41	1408
Potter, Newsome S. (See Allen and Potter.)						
Potter, Robert A., Jersey City, N. J., assignor of one-half to E. W. Perry, New York, N. Y. Price-indicator and pressure-regulator for gas-meters.	372,928	Nov. 8	970	263	41	658
Potter, Roger, and H. McDougall, New York, N. Y. Switch for suspended railways.	367,842	Aug. 9	739	199	40	600
Potter, Thomas O., Boston, Mass. Adjusting spring-strap.	367,727	Aug. 2	573	156	40	559
Potter, William, Spring Hill, Kans. Grapple.	365,940	July 5	265	69	40	51
Potter, William J., Philadelphia, Pa. Sash-fastener.	361,077	Apr. 12	984	249	39	188
Pottle, George F. (See Godfrey, Fred A., assignor.)						
Potts, Albert. (See Potts, Clayton and A.)						
Potts, Clayton and A., Indianapolis, Ind. Clay-disintegrator.	368,898	Aug. 23	2242	596	40	905
Potts, Franklin P., Fort Collins, Colo. Band-cutter and feeder.	361,235	Apr. 12	1228	312	39	233
Potts, George, assignor of one-half to S. and A. D. Johnson, Indianapolis, Ind. Mechanical movement.	361,372	Apr. 19	1414	365	39	279
Potts, George C., et al. (See Frishmuth, William, assignor.)						
Potts, Joseph C., Berwyn, Pa. Friction-clutch.	357,095	Feb. 1	499	132 133	38	514
Potts, Joseph C., Berwyn, Pa. Heddle-operating mechanism for looms.	357,096	Feb. 1	500	133	38	515
Potts, Joseph C., Berwyn, Pa. Shuttle-operating mechanism.	357,097	Feb. 1	501	133	38	515
Potts, Samuel. (See Holt, George D., assignor.)						
Pouchkareff, Nicholas, St. Petersburg, Russia. Lamp.	374,700	Dec. 13	757	198 199	41	1204
Poulson, Andrew, St. Louis, Mo., and H. M. Schneider, Washington, D. C. Thill-coupling.	366,684	July 19	1290	344	40	261
Poulson, Britton, assignor of one-half to W. D. Schiefer, Fort Wayne, Ind. Device for attaching buttons.	367,319	July 26	2165	583	40	432
Poulson, Britton, and E. L. Lathrop, Fort Wayne, Ind., assignors to American Road Machine Company, Kennett Square, Pa. Road-grader.	370,655	Sept. 27	1955	517 518	40	1424
Poure, Louis G. (See Gros and Poure.)						
Powell, Charlie J. (See Hayden and Powell.)						
Powell, Edwin R., Burlington, Vt., assignor of two-thirds to D. R. Ballou, Providence, R. I., and J. C. Rutherford, Burlington, Vt. Fence.	370,656	Sept. 27	1958	518	40	1425

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Powell, Fred T., <i>et al.</i> (See Carpenter, Elial F., assignor.)						
Powell, Gammert. (See Vanderheyden and Powell.)						
Powell, George M., Newfield, N. J. Velocipede.....	365,738	June 28	1875	487	39	1466
Powell, George M., Geneva, Dak. Ter. Harrow.....	369,735	Sept. 13	579	158	40	1153
Powell, Henry G., Bayswater, county of Middlesex, England. Combined household furniture and fire-escape.....	364,668	June 14	643	172	39	1217
Powell, James, Cincinnati, Ohio. Lubricator.....	365,629	June 28	2092	545	39	1509
Powell, James, Cincinnati, Ohio. Plug-cock.....	369,613	Sept. 6	419	117	40	1115
Powell, James, Cincinnati, Ohio. Lubricator.....	372,764	Nov. 8	706	195	41	613
Powell, James C., Danville, Va. Velocipede.....	368,167	Aug. 9	1195	{ 319 320 }	{ 40 39 }	{ 686 604 }
Powell, Jessie F., Eureka, Kans. Lawn-mower.....	362,535	May 10	652	184	39	604
Powell, John B., assignor to D. P. Dietrich and R. M. Popham, Philadelphia, Pa. Spring-motor.....	367,234	July 26	2041	550	40	410
Powell, John R., and W. D. Lewis, Plymouth, Pa. Mining-drill.....	358,479	Mar. 1	85	21	38	919
Powell Manufacturing Company. (See Speake, Rufus H., assignor.)						
Powell, Richard C. (See Jones, William, assignor.)						
Powell, Samuel L., Lewistown, Md. Combined lock and latch.....	366,506	July 12	1021	278	40	203
Powell, Thomas W., Flushing, N. Y. Potato-planter and fertilizer-distributor.....	373,945	Nov. 29	2500	671	41	974
Power, D. B. H., <i>et al.</i> (See Keeney, John W., assignor.)						
Power, Kelsey L., Moody, Tex. Car-coupling.....	366,873	July 19	1543	414	40	307
Power, S. W., <i>et al.</i> (See Keeney, John W., assignor.)						
Power, Thomas E. D., New York, N. Y. Clothes-line support.....	358,819	Mar. 1	585	145	38	1012
Powers, Benjamin F. (See Powers, W. H. and B. F.)						
Powers, Frank H., assignor to C. W. Reynolds and D. H. Kellyer, Petersburg, N. Y. Shirt.	366,685	July 19	1291	{ 344 345 }	{ 40 38 }	{ 261 920 }
Powers, Henderson M., Lancaster, Pa. Apparatus for drawing liquids.....	358,480	Mar. 1	87	21.22	38	920
Powers, James J., Brooklyn, N. Y. Apparatus for disinfecting sewage.....	362,657	May 10	844	231	39	637
Powers, James J., Brooklyn, N. Y. Apparatus for making and storing gas.....	366,874	July 19	1544	414	40	308
Powers, Jesse, assignor of one-half to M. B. Bailey, Chicago, Ill. Brick-hod.....	360,618	Apr. 5	329	81	39	63
Powers, Joseph A., Troy, N. Y. Regulator for electric circuits.....	359,739	Mar. 22	1937	{ 491 492 }	{ 38 39 }	{ 1291 41 }
Powers, Joseph A., Lansingburg, N. Y. Electric-lighting system.....	360,538	Apr. 5	211	52	39	41
Powers, R. A., <i>et al.</i> (See Ridley, James M., assignor.)						
Powers, T. W., <i>et al.</i> (See Ridley, James M., assignor.)						
Powers, Thomas, Perryville, assignor to J. C. Somerville, St. Louis, Mo. Camera-stand.....	369,124	Aug. 30	2571	683	40	977
Powers, William H. and B. F., Cleveland, Ohio. Corrugated ridge-capping for buildings.....	365,096	June 21	1302	344	39	1346
Pracy, Joseph, San Francisco, Cal. Direct-acting engine.....	362,855	May 10	1116	301	39	688
Prahar, Louis B., Brooklyn, N. Y. Lock for pocket-books, satchels, &c.....	359,033	Mar. 8	901	220	38	1075
Prahar, Louis B., Brooklyn, N. Y. Clasp.....	362,461	May 3	550	152	39	580
Prahar, Louis B., Brooklyn, N. Y. Pocket-book clasp.....	368,685	Aug. 23	1944	516	40	848
Prahar, Louis B., New York, N. Y. Frame for pocket-books, satchels, &c.....	365,200	June 21	1444	381	39	1374
Prall, Effie L., Wellington, Kans. Motor for churns.....	358,569	Mar. 1	236	54	38	947
Prall, Oliver P., <i>et al.</i> , trustees. (See Loveren, Arthur D., assignor.)						
Prall, Walter P., Woodbridge, N. J. Horse hay-rake.....	361,645	Apr. 19	1794	464	39	352
Prang, Louis, Boston, Mass. Combined portfolio and easel.....	357,625	Feb. 15	1283	337	38	679
Prange, August C. T., Pomeroy, Iowa. Pump-motor support.....	366,686	July 19	1292	{ 345 346 }	{ 40 38 }	{ 262 709 }
Prangley, James, Lancaster, Pa. Feed-regulating device for cigar-machines.....	357,734	Feb. 15	1454	380	38	709
Prangley, James, Lancaster, Pa. Cigar-machine.....	360,046	Mar. 29	2448	{ 623 624 }	{ 38 39 }	{ 1391 139 }
Prangley, James, Lancaster, Pa. Tobacco-booking machine.....	366,251	July 12	692	188	40	139
Pratt, Ashton H., Abington, Mass. Lacing-loop.....	372,704	Nov. 8	620	169	41	597
Pratt & Cady Company. (See Lewis, Justus P., assignor.)						
Pratt, Charles E., Chicago, Ill. Fare-register.....	357,229	Feb. 8	714	{ 183 184 185 }	{ 38 39 39 }	{ 562 890 1262 }
Pratt, Charles N., <i>et al.</i> (See Cook, Willard L., assignor.)						
Pratt, Charles R., Boston, and C. H. W. Foster, Brookline, Mass. Two-wheeled vehicle.....	363,541	May 24	2088	541	39	890
Pratt, Granville C., assignor of one-half to P. B. Morse, Anoka, Minn. Clay-pulverizer.....	359,630	Mar. 22	1782	454	38	1262
Pratt, Harry P., Chicago, Ill. Stethoscope.....	370,711	Sept. 27	2042	543	40	1440
Pratt, Harry P., Chicago, and L. O. McPherson, Jefferson, Ill. Telephone-transmitter.....	355,838	Jan. 11	759	199	38	155
Pratt, Henry, and J. J. Ryan, Chicago, Ill. Gas-generator.....	361,078	Apr. 12	985	249	39	188
Pratt, Henry C., Canandaigua, N. Y. Attachment for cultivators.....	359,518	Mar. 15	1591	{ 407 408 }	{ 38 41 }	{ 1211 1026 }
Pratt, Henry C., Canandaigua, N. Y. Cultivator-tooth.....	374,130	Nov. 29	2763	743	41	1026
Pratt, Herbert W., Streator, Ill. Vehicle-tongue.....	356,232	Jan. 18	1343	354	38	272
Pratt, Jacob F., and W. Chase, Coldwater, Mich. Sleigh.....	364,295	June 7	124	35.36	39	1113
Pratt, John J., Wakefield, assignor of one-half to C. H. Lewis, Boston, Mass. Safety-car.....	373,480	Nov. 22	1822	485	41	837
Pratt, Lemuel C., Kalamazoo, Mich. Two-wheeled vehicle.....	366,344	July 12	814	219	40	161
Pratt, Leverett A. (See Fox, Jacob G., assignor.)						
Pratt, Leverett A., Bay City, Mich. Combined thread cutter and holder.....	368,548	Aug. 16	1754	466	40	801
Pratt, Lewis M., assignor of one-half to W. H. Thompson, Belleville, Kans. Ornamental frame.....	369,410	Sept. 6	137	40	40	1058
Pratt Manufacturing Company. (See English, Analdo M., assignor.)						
Pratt, Nat. W., Brooklyn, N. Y. Connecting-box for sectional steam-boilers.....	368,610	Aug. 23	1839	491	40	827
Pratt, Nat. W., Brooklyn, N. Y. Boiler-head and man-hole.....	368,611	Aug. 23	1839	491	40	827
Pratt, Nat. W., Brooklyn, N. Y. Manifold for water-tube boilers.....	368,612	Aug. 23	1840	492	40	827
Pratt, Nat. W., Brooklyn, N. Y. Connecting-box for sectional steam-boilers.....	368,613	Aug. 23	1841	492	40	827
Pratt, Nat. W., Brooklyn, N. Y. Manifold for water-tube boilers.....	368,614	Aug. 23	1842	492	40	828
Pratt, Nat. W., Brooklyn, N. Y. Manifold for water-tube boilers.....	368,615	Aug. 23	1843	492	40	828
Pratt, Nat. W., Brooklyn, N. Y. Connecting-box for sectional steam-boilers.....	368,616	Aug. 23	1844	493	40	828
Pratt, Nat. W., Brooklyn, N. Y. Device for welding the joints of metallic boxes.....	368,617	Aug. 23	1844	493	40	828
Pratt, Norman H. (See Hodge and Pratt.)						
Pratt, Ransom, Corning, N. Y. Picture-hanger.....	358,069	Feb. 22	1928	508	38	804
Pratt, Romello F., Revere, and C. D. Wainwright, Medford, Mass., assignors to Wainwright Manufacturing Company, Portland, Me. Corrugated tubing.....	365,630	June 28	2094	545	39	1510
Pratt, Thomas, assignor of one-half to W. J. Lightcap, Valparaiso, Ind. Carpet-stretcher.....	367,320	July 26	2166	583	40	432
Pratt & Whitney Company. (See Heyer, John W., assignor.)						
Pratt & Whitney Company. (See Richards, Francis H., assignor.)						
Pray, John, assignor to Cutcheon & Johnson, Lynn, Mass. Machine for beating out boot or shoe soles.....	367,927	Aug. 9	860	234	40	623
Prechtel, Michael, Cleveland, Ohio. Tongue-support.....	372,235	Oct. 25	2176	559	41	449
Prendergast, James M., <i>et al.</i> (See Coughlin, John J., assignor.)						
Prentice, George J., New York, N. Y. Cigar-mold.....	365,631	June 28	2095	546	39	1510
Prentice, George W., Providence, R. I. Button-fastening staple.....	357,626	Feb. 15	1284	338	38	679

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Prentice, George W., Providence, R. I. Button-fastener.....	358,481	Mar. 1	89	22	38	920
Prentice, George W., Providence, R. I. Button-fastening machine.....	359,631	Mar. 22	1783	{ 454 455 }	{ 38	1263
Prentice, George W., Providence, R. I. Button or stud.....	374,626	Dec. 13	656	171	41	1183
Prentice, John, New York, N. Y. Automatic extinguisher for gas-burners.....	370,816	Oct. 4	85	23	41	19
Prentice, Robert, Portage, Wis. Suspension-wheel for wire-cable tramways.....	364,669	June 14	643	173	39	1217
Prentiss, Henry S., New York, N. Y. Calendar-clock.....	360,725	Apr. 5	467	{ 119 120 }	{ 39	87
Prentiss, Joseph L., Cañon City, Colo., assignor of one-half to H. E. Finney, Chicago, Ill. Car-ventilator.....	356,851	Feb. 1	152	41	38	451
Prescott, Albert H., Chicago, Ill., assignor to Indurated Fibre Company, Lockport, N. Y. Fastener for pail-covers.....	365,703	June 28	2202	575	39	1529
Prescott, De Witt C., Marinette, Wis. Steam-feed for saw-mills.....	360,972	Apr. 12	828	{ 212 213 }	{ 39	159
Prescott, De Witt C., Marinette, Wis. Feed and pressure mechanism for saw-mills.....	363,169	May 17	1563	412	39	781
Prescott, De Witt C., Marinette, Wis. Saw-mill set-works.....	368,730	Aug. 23	2015	534	40	860
Prescott, De Witt C., Marinette, Wis. Band-saw mill.....	368,731	Aug. 23	2017	535	40	860
Prescott, De Witt C., Marinette, Wis. Band-saw mill.....	369,881	Sept. 13	798	213	40	1194
Prescott, Edwin. (See Stillson and Prescott.)						
Prescott, George A. (See Baker and Prescott.)						
Prescott, George B., Jr., Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Cut-out for secondary batteries.....	357,627	Feb. 15	1285	338	38	680
Prescott, Granville F., Sleepy Eye, Minn. Cockle and grain separator.....	355,713	Jan. 11	576	151	38	123
Prescott, Joseph F., Hopson, Ky. Tobacco-wagon frame.....	357,786	Feb. 15	1537	400	38	725
Prescott, Oliver P., Boston, Mass. Carpet-sweeper.....	371,519	Oct. 11	1105	288	41	225
Preston, Albert F., Lynn, Mass. Machine for marking vamps for boots or shoes.....	360,325	Mar. 29	2875	732	38	1469
Preston, Almon E., Battle Creek, Mich. Shaft-hanger.....	362,658	May 10	845	231	39	637
Preston, Almon E., Battle Creek, Mich., assignor of two-thirds to E. Higgins and F. H. Preston. Wire-nail machine.....	368,549	Aug. 16	1755	{ 466 467 }	{ 40	801
Preston, Almon J., East Guilford, N. Y. Belt-fastener.....	366,127	July 5	517	139	40	98
Preston, Anthony, Chester, Pa. Car-coupling.....	356,783	Feb. 1	53	16	38	433
Preston, Charles A., Cambridgeport, assignor to G. Frost, G. H. Phelps, and G. A. Frost, Newton, Mass. Garment-supporter.....	368,550	Aug. 16	1757	467	40	802
Preston, Frank H., et al. (See Preston, Almon E., assignor.)						
Pretty, William, Jr., Ipswich, county of Suffolk, England. Eyelet-tape.....	362,995	May 17	1318	350	39	732
Preuss, Rudolf. (See Kunkel and Van Sas, assignors.)						
Prevost, Louis, Champoege, Oreg. Grain-cleaner.....	360,361	Mar. 29	2932	745	38	1478
Prevost, Sutherland M., Philadelphia, Pa. Rail-splice for railways.....	360,047	Mar. 29	2453	625	38	1391
Prewitt, James H., et al. (See Slaton, Clifton H., assignor.)						
Prewitt, William Q., Lexington, Ky. Apparatus for stenciling.....	371,969	Oct. 25	1770	459	41	375
Priault, John A., Rochester, N. Y. Turn-table for coasters.....	360,479	Apr. 5	115	29	39	23
Price, Abraham, assignor of one-half to E. Hall, Indianola, Iowa. Ditching-machine.....	366,185	July 5	591	{ 158 159 }	{ 40	111
Price, Benjamin B., Arlington, Tex. Corn-sheller.....	370,022	Sept. 13	1024	270	40	235
Price, D. S. (See Wells, James, assignor.)						
Price, Edwin F., Baltimore, Md. Pamphlet-cover presser.....	372,765	Nov. 8	709	196	41	613
Price, George P., Carlisle, Ohio. Swinging gate.....	359,740	Mar. 22	1940	492	38	1291
Price, George T., et al. (See Price, John M., assignor.)						
Price, George W., Baltimore, Md. Device for unloading vessels.....	375,715	Dec. 27	2201	572	41	1495
Price, George W., assignor to W. J. Hooper, Baltimore, Md. Machine for making twine, &c.....	364,371	June 7	223	63	39	1131
Price, George W., assignor of one-third to J. R. Foard, Baltimore, Md. Device for loading and unloading vessels.....	367,061	July 26	1784	481	40	362
Price, Harry, Sauk Rapids, Minn. Gage.....	357,628	Feb. 15	1287	338	38	680
Price, Harry F., Fort Worth, Tex. Door-check.....	367,060	July 26	1784	481	40	362
Price, Henry. (See Statham and Price.)						
Price, Henry C., assignor to Scovill Manufacturing Company, New York, N. Y. Photographic camera.....	358,942	Mar. 8	781	196	38	1053
Price, Henry C., assignor to Scovill Manufacturing Company, New York, N. Y. Photographic camera.....	368,732	Aug. 23	2020	535	40	861
Price, Henry F., Brooklyn, N. Y. Hat.....	371,970	Oct. 25	1772	459	41	375
Price, Henry W. (See Blomstrom, John, assignor.)						
Price, Jacob, San Leandro, Cal. Traction-engine.....	363,966	May 31	2710	{ 702 703 }	{ 39	1013
Price, Jerusha M. B., Hiawatha, Kans. Baby charmer, protector, and dental cutter.....	355,663	Jan. 4	500	132	38	97
Price, John A., Scranton, Pa. Apparatus for generating gas.....	363,481	May 24	1993	{ 520 521 }	{ 39	873
Price, John A., Scranton, Pa. Cooking-stove.....	365,349	June 21	1665	435	39	1415
Price, John A., Scranton, Pa. Heating-furnace.....	370,889	Oct. 4	215	55	41	42
Price, John A., Scranton, Pa. Stove or range.....	372,042	Oct. 25	1885	486	41	394
Price, John A., Scranton, Pa. Stove-shelf.....	374,627	Dec. 13	658	172	41	1183
Price, John M., Kingsbridge, N. Y. Skelp-rolling machine.....	373,481	Nov. 22	1824	{ 485 486 }	{ 41	838
Price, John M., assignor of two-thirds to G. T. Price and H. Williams, New York, N. Y. Rolling-mill.....	363,482	May 24	1997	{ 521 522 }	{ 39	873
Price, John R., et al. (See Parmenter, Orville L., assignor.)						
Price, Loftus E., and C. L. Sherman, New Lots, assignors to Miles Bros. & Co., New York, N. Y. Machine for making brushes.....	356,330	Jan. 18	1480	390	38	298
Price, Rees W., and H. A. Russell, Oskaloosa, Iowa. Signal-flag staff.....	363,345	May 17	1796	471	39	826
Price, V. Clarence, et al. (See Wilson, Merrick F., assignor.)						
Price, William G., assignor of one-half to M. K. Bowen, New Orleans, La. Automatic-ally-operating camera-shutter.....	363,967	May 31	2712	703	39	1014
Price, William H., Jr. Cleveland, Ohio. Belt-shifter.....	371,625	Oct. 18	1254	326	41	263
Price, William H., Jr., assignor to Chandler & Price, Cleveland, Ohio. Printing-press.....	361,236	Apr. 12	1230	313	39	233
Price, William H., Jr., assignor to Chandler & Price, Cleveland, Ohio. Chase-hook for printing-presses.....	361,237	Apr. 12	1231	313	39	234
Prichard, George A. (See Mignault and Prichard.)						
Prickett, Jesse, Pittsfield, Mass. Blacking.....	363,420	May 24	1903	.....	39	854
Pridham, Charles W. (See Upward and Pridham.)						
Pridmore, Henry E. (See Baker and Pridmore.)						
Pridmore, Henry E., Chicago, Ill. Harvester-rake.....	362,038	Apr. 26	2372	{ 618 619 }	{ 39	462
Pridmore, Henry E., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Grain-binder.....	361,646	Apr. 19	1795	{ 465 466 467 }	{ 39	352

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Priest, James S., Manayunk, Pa. Boiler for steam-heating	369,470	Sept. 6	218	61	40	1074
Priest, John, Franconia, N. H. Cattle-stanchion	356,728	Jan. 25	2039	535	38	411
Primary Battery Company. (See Fitz-Gerald, Desmond G., assignor.)						
Primary Battery Company. (See Jones, Thomas J., assignor.)						
Primary Battery Company. (See Tasker and Jones, assignors.)						
Primm, Jean B. (See Primm, Wilson W. and J. B.)						
Primm, Sarah L. (See Primm, Wilson W. and J. B., assignors.)						
Primm, Wilson W., and J. B., assignors of one-third to S. L. Primm, St. Louis, Mo. Balanced slide-valve	361,647	Apr. 19	1800	467	39	353
Prince, David. (See Ledoux, Augustus D., assignor.)						
Prince, Jerome. (See Mellett and Prince.)						
Prindle, Corydon L., Evanston, Ill. Gate for swing-bridges	360,911	Apr. 12	732	{ 192 193 }	{ 39 39 }	143
Prindle, Frank P., and C. H. Koyl, Washington, D. C. Bicycle-lantern	360,392	Mar. 29	2977	{ 754 755 }	{ 38 38 }	1486
Prindle, George S., <i>et al.</i> (See Graydon, James W., assignor.)						
Pringle, Eugene, Gloversville, N. Y. Glove-fastening	360,912	Apr. 12	734	193	39	143
Pringle, Eugene, Gloversville, N. Y. Connecting device for straps and other articles	360,913	Apr. 12	735	193	39	143
Pringle, James R., Gloucester, Mass. Making glue and chlorine from salted fish-skins	362,903	May 10	1191	.....	39	702
Prinz, Faustin, Milwaukee, Wis. Elevating-bolt	374,754	Dec. 13	832	218	41	1218
Prinz, Faustin, Milwaukee, Wis. Middlings-purifier	375,194	Dec. 20	1487	390	41	1352
Prior, John T., Prior's Station, Ga. Plow	366,128	July 5	518	140	40	98
Pritchard, Charles L., Dubuque, Iowa. Vehicle-top	362,039	Apr. 26	2375	619	39	463
Pritchard, Charles L., Dubuque, Iowa. Carriage-top	366,129	July 5	519	140	40	98
Pritchard, Frederick, and G. H. Ahlstrom, Worcester, Mass. Pneumatic action for musical instruments	363,082	May 17	1439	381	39	756
Pritchard, Joseph A., Fenelon Falls, Ontario, Canada. Cabinet for paper sheets and bags	356,784	Feb. 1	54	16	38	433
Pritchard, Levi. (See Richards, Thomas, assignor.)						
Pritchett, George, Binghamton, N. Y. Friction-block fire-escape	366,736	July 19	1361	364	40	274
Pritz, Winfield S., La Junta, Colo. Trace-carrier	360,048	Mar. 29	2454	625	38	1392
Procter, Edwin R., Washington Court-House, Ohio. Envelope	371,217	Oct. 11	687	176	41	144
Procter, Thomas A. (See Edmondson, Moorhouse, and Procter.)						
Proctor, David R., assignor to himself and J. F. Marshall, Chicago, Ill. Saw	361,238	Apr. 12	1232	313	39	234
Proctor, David R., assignor to himself and S. W. Sea, Chicago, Ill. Circular sawing machine	368,618	Aug. 23	1845	493	40	828
Proctor, Frank. (See Pryor, Marlborough R., assignor.)						
Proctor, Josiah K., and J. H. Knowles, assignors to Philadelphia Textile Machinery Company, Philadelphia, Pa. Machine for notching strips of metal	365,020	June 14	1174	308	39	1313
Proeschel, Julius N., and E. McClintock, Milwaukee, Wis. Letter-sheet and envelope combined	374,555	Dec. 6	562	147	41	1155
Proll, Louis. (See Adelson and Proll.)						
Prosser, Treat T., Lake Side, assignor of one-half to J. B. Waller and F. S. Osborne, Cook County, Ill. Utilizing products of heat	366,875	July 19	1544	414	40	308
Protschko, Michael, Buda-Pesth, Austria-Hungary. Printer's chase	368,234	Aug. 16	1310	346	40	715
Protsman, Charles. (See Lee and Protsman.)						
Proudfit, David L. (See Pain and Tremaine, assignors.)						
Prouty, George C. (See Tucker, William, assignor.)						
Provan, James W., Oshawa, Ontario, Canada. Hay-fork	360,783	Apr. 5	546	141	39	102
Provan, James W. and J. W., Oshawa, Ontario, Canada. Pulley-hoister	367,443	Aug. 2	114	33	40	473
Provan, John W. (See Provan, James W. and J. W.)						
Provost, Charles H., Brooklyn, N. Y. Wall-paper	368,686	Aug. 23	1945	.....	40	848
Prox, Frank, Terre Haute, Ind. Sectional steam-boiler	365,759	June 28	2291	595	39	1545
Prox, Franz P. H., Terre Haute, Ind. Radiator	365,758	June 28	2290	595	39	1545
Pruim, Hiram P., <i>et al.</i> (See Dake, William F., assignor.)						
Pruim, Hiram P., Grand Haven, Mich. Breastpin	370,411	Sept. 27	1585	424	40	1356
Pruitt, Eugene R., assignor of one-half to C. D. Parker, Baltimore, Md. Safety attachment for gas-burners	364,729	June 14	733	195	39	1235
Prybil, Paul. (See Mackintosh, Edward D., assignor.)						
Pryor, Marlborough R., assignor to F. Proctor, Stevenage, county of Herts, England. Mechanical digger	357,536	Feb. 8	1146	300	38	644
Puellmann, Edward W., St. Louis, Mo. Slate-wiper	362,109	May 3	84	25	39	489
Puffer, Luther W., Medford, Mass. Valve for generators	363,763	May 24	2407	625	39	952
Pugh, Cortez V., Bowling Green, Mo. Wagon-brake	369,363	Sept. 6	79	25	40	1049
Pugsley, Samuel, New Rochelle, N. Y. Gate-latch	357,787	Feb. 15	1538	401	38	725
Pullen, Charles S., <i>et al.</i> (See Cushman, Adoniram J., assignor.)						
Pullen, Horace C., <i>et al.</i> (See Cushman, Adoniram J., assignor.)						
Pulley, William O. (See Wardwell, Charles W., assignor.)						
Pulliam, Thomas N., New Edinburg, Ark. Lap-ring	370,084	Sept. 20	1114	296	40	1259
Pullin, Alfred R., Sydney, New South Wales, Australia. Sign or signal	369,614	Sept. 6	420	{ 117 118 }	{ 40 40 }	1115
Pullin, Alfred R., Sydney, New South Wales, Australia. Sign or signal	369,615	Sept. 6	422	118	40	1115
Pullman, George M. (See Rapp, August, assignor.)						
Pullman, Herbert S., assignor to J. C. Hammond, Rockville, and T. E. King, Westport, Conn. Shoe-clasp	362,040	Apr. 26	2376	619	39	463
Pullman's Palace Car Company. (See Sessions, Henry H., assignor.)						
Pulsifer, Frank H., Jr., Auburn, N. Y. Sectional boiler	368,235	Aug. 16	1311	346	40	715
Pultz, Frederick. (See Whitney and Pultz.)						
Pumphrey, Robert B. (See Harvey, William T., assignor.)						
Pumphrey, Robert B., Baltimore, Md. Meat-cutter	367,763	Aug. 2	619	167	40	567
Punchard, Edward O. (See Ries, Elias E., assignor.)						
Pungs, William A. (See Susemihl and Pungs.)						
Pungs, William A., assignor to himself, J. E. King, C. A. Newcomb, J. B. Mulliken, A. T. Hill, and C. B. Hubbard, Detroit, Mich. Nut-lock	371,149	Oct. 4	591	151	41	116
Purdy, Albert L., assignor of two-thirds to J. Thornton and L. Frank, Wellsville, N. Y. Suspender-buckle	369,656	Sept. 6	477	133	40	1125
Purdy, Edmund G., Ballston Spa, N. Y. Druggist's mortar	365,021	June 14	1177	308	39	1314
Purdy, Edmund G., Ballston Spa, N. Y. Adjustable socket for mortars	366,427	July 12	910	246	40	180
Purdy, John H., Chicago, Ill. Brooch-pin	373,482	Nov. 22	1827	486	41	838
Purdy, John H., Chicago, Ill. Foot-power	373,483	Nov. 22	1828	487	41	839
Purinton, Frank M., Providence, R. I. Machine for removing bark from logs	368,968	Aug. 30	2352	624	40	934
Purkey, John L., Miller, Dak. Ter. Car-coupling	363,847	May 31	2530	658	39	981
Pursel, Peter H. (See Kelchner, O'Daniel, and Pursel.)						
Pursell, William C., assignor of one-half to J. H. Jones, Somerville, Ind. Axle-skein	367,764	Aug. 2	620	167	40	568
Purves, David, Ferro Dene, Green Lane, North Dulwich, county of Surrey, England. Boiler-flue	372,487	Nov. 1	295	81	41	527

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Purves, David H., Waddington, N. Y. Coat-adjuster.....	370,209	Sept. 20	1298	346	40	1294
Purves, Thomas B., Greenbush, N. Y. Packing for piston and valve rods.....	356,785	Feb. 1	55	16	38	433
Purvis, David C., Paragould, Ark. Fire-place.....	375,195	Dec. 20	1488	390	41	1352
Purvis, John B., Detroit, Mich. Automatic oiler.....	367,444	Aug. 2	115	33	40	473
Purvis, Mary, Plainview, Minn. Rinsing and drying device for dishes and other articles of table use.....	364,602	June 7	559	150	39	1193
Pusey, Caroline S., Philadelphia, Pa. Manufacturing hosiery and other garments.....	361,079	Apr. 12	986	250	39	188
Pusey, Caroline S., Philadelphia, Pa. Sock, glove, &c.....	361,080	Apr. 12	988	250	39	189
Pusey, Caroline S., Philadelphia, Pa. Uniting fabrics by sewing.....	361,081	Apr. 12	989	250	39	189
Pusey, Caroline S., Philadelphia, Pa. Culinary or egg beater.....	372,043	Oct. 25	1886	486	41	394
Pusey, Joshua, Philadelphia, Pa. Toboggan.....	359,741	Mar. 22	1942	493	38	1291
Putnam, Abel, Jr., Saratoga Springs, N. Y. Toboggan.....	357,132	Feb. 1	580	149	38	528
Putnam, Abel, Jr., Saratoga Springs, N. Y. Car-heater.....	370,085	Sept. 20	1115	296	40	1259
Putnam, Charles B., Marion, Iowa. Windmill-tower.....	357,290	Feb. 8	798	208	38	578
Putnam, Emma J., <i>et al.</i> (See Putnam, George S., assignor.)						
Putnam, Ephraim, Schuyler Falls, N. Y. Barrel.....	371,703	Oct. 18	1378	355	41	288
Putnam, George S., assignor to R. C. Hickok and E. J. Putnam, Buffalo, N. Y. Pump.....	358,570	Mar. 1	237	55	38	947
Putnam, John H. (See Thomas, Edwin E., assignor.)						
Putnam, John P., Boston, Mass. Trap for wash-basins.....	360,480	Apr. 5	116	29	39	23
Putnam, Salmon W., Fitchburg, Mass. Belt-tightener.....	369,364	Sept. 6	80	25	40	1049
Putnam, Walis A., Palatine, Ill. Washing fluid.....	363,764	May 24	2410		39	952
Putnam, William F. (See Campbell, William, assignor.)						
Putnam, William H., Litchfield, Ill. Broom-clamp.....	373,785	Nov. 22	2270	608	41	922
Puttemans, Pierre G., Brooklyn, N. Y. Auto-pneumatic clock mechanism.....	360,481	Apr. 5	117	29, 30	39	23
Puttemans, Pierre G., Brooklyn, N. Y. Pneumatic clock system.....	362,462	May 3	550	153	39	580
Pyle, Howard L., Akron, Ohio. Electric-arc lamp.....	356,786	Feb. 1	56	17	38	434
Pyle, Howard L., Akron, Ohio. Automatically-adjustable locomotive head-light.....	356,787	Feb. 1	60	17	38	434
Pyle, Howard L., Akron, Ohio. Electric-arc lamp.....	356,788	Feb. 1	62	17, 18	38	435
Pyle, William J., Osceola, Nebr. Gate.....	365,860	July 5	146	38	40	30
Pynchon, Edwin. (See Moon, Edward A., assignor.)						
Pynchon, Edwin, Chicago, Ill. Adjustable chair.....	374,628	Dec. 13	659	{ 172 173 }	{ 41 }	1184
Pynchon, Edwin, assignor to National Lubricator Company, Chicago, Ill. Car-axle lubricator.....	368,969	Aug. 30	2353	625	40	934
Pynchon, Edwin, A. B. Macklin, E. F. Mulloy, M. McDermott, and W. D. O'Brien, Chicago, Ill. Car-axle lubricator.....	357,999	Feb. 15	1822	479	38	779
Pyne, W. T. (See Smith, Oswald, assignor.)						
Pyne, William T., Louisville, Ky. Grinding-mill.....	365,022	June 14	1177	309	39	1314
Quack, Eduard. (See Schiltz and Quack.)						
Quack, Eduard, Cologne, Prussia, Germany. Kneading and mixing machine.....	375,384	Dec. 27	1738	456	41	1408
Quackenbush, Andrew W., Peru, Ind. Smoke-jack.....	357,941	Feb. 15	1738	454	38	763
Quackenbush, Henry M., Herkimer, N. Y. Apparatus for manufacturing projectiles.....	358,984	Mar. 8	839	212	38	1063
Quackenbush, Henry M., Herkimer, N. Y. Air-gun.....	370,817	Oct. 4	86	23	41	19
Quackenbush, Jesse H., East Saginaw, Mich. Gate for pivot-bridges.....	359,742	Mar. 22	1944	493	38	1292
Quagli, Julius, Berlin, Germany. Apparatus for compressing coal and introducing the same into coke-ovens.....	365,489	June 28	1876	{ 488 489 }	{ 39 }	1466
Quatermass, Reuben. (See Caldwell and Quatermass.)						
Quatermass, Reuben, Moline, Kans. Signaling apparatus.....	370,558	Sept. 27	1811	482	40	1396
Queen & Co., James W. (See Fox, Joseph J., assignor.)						
Querol y Delgado, Emilio, Brooklyn, N. Y. Device for trimming the ends of tubes.....	356,957	Feb. 1	296	82	38	477
Querol y Delgado, Emilio, Brooklyn, N. Y. Cut-off for steam-engines.....	356,958	Feb. 1	298	82, 83	38	477
Quick, George, Chipping Campden, county of Gloucester, England. Breech-loading ordnance.....	370,657	Sept. 27	1960	{ 518 519 }	{ 40 }	1425
Quigley, Andrew P. (See Rainaud, Elzidas, assignor.)						
Quigley, Charles R., Boston, Mass. Photographic developing-cabinet.....	362,782	May 10	1029	{ 279 280 }	{ 39 }	671
Quigley, Hugh L., Milwaukee, Wis., assignor to G. N. Bressler, Long Prairie, Minn., and G. J. Pilger, Milwaukee, Wis. Hame and collar fastener.....	370,086	Sept. 20	1116	296	40	1259
Quigley, William F., Anamosa, Iowa. Felt boot.....	373,305	Nov. 15	1550	409	41	774
Quill, Thomas F. (See Brown, Ethan A., assignor.)						
Quillmann, Jakob, New York, N. Y. Machine for cleaning malt.....	370,493	Sept. 27	1718	{ 455 456 }	{ 40 }	1379
Quinby, Benjamin F., Boston, Mass. Manufacture of rotary brushes.....	356,158	Jan. 18	1246	329	38	253
Quinby, Byron C., Plymouth, Mass. Wood-screw.....	374,701	Dec. 13	760	199	41	1205
Quinby, Henry B. (See Clow, Thomas C., assignor.)						
Quinby, Henry B., and T. C. Clow, Lake Village, N. H. Manufacturing stockings and hose.....	355,790	Jan. 11	693	181	38	143
Quinby, William C., San Francisco, Cal. Electrolyte and depolarizer for galvanic batteries.....	355,412	Jan. 4	159		38	32
Quincy Metal Wheel Company. (See Little, James R., assignor.) (Reissue.)						
Quinlan, Maurice, Glendale Station, N. Y. Chain-wrench.....	373,603	Nov. 22	2015	535	41	872
Quinn, Josiah D., and S. Crossley, Daggett, Cal. Danger-signal for railways.....	374,373	Dec. 6	290	77	41	1101
Quint, Alanson D., Hartford, Conn. Steam-engine governor.....	358,296	Feb. 22	2246	593	38	863
Quint, Alanson D., Hartford, Conn. Engine-governor.....	358,297	Feb. 22	2247	593	38	863
Quint, Frederick, Willows, Cal. Lifting-jack.....	366,792	July 19	1434	383	40	287
Quintero, Antonio H., San Antonio, Tex. Spring-saddle.....	359,176	Mar. 8	1078	280	38	1109
Quinn, Emil J. F., Tioga Centre, N. Y. Car brake and starter.....	374,084	Nov. 29	2703	726	41	1015
Quosbarth, Ludwig, New York, N. Y. Knife.....	372,565	Nov. 1	415	111	41	550
Raab, Joseph, Dayton, Ohio. Pump.....	363,677	May 24	2279	591	39	927
Rabb, William S., Winnsborough, assignor of one-half to A. T. Smythe, Charleston, S. C. Hoe-blade and fastening.....	360,619	Apr. 5	330	81	39	63
Rabenstein, Friedrich W. (See Lehmann and Rabenstein.)						
Racca, Giovanni, Turin, Italy, and W. Seward, London, England. Mechanical musical instrument.....	357,502	Feb. 8	1088	{ 287 288 }	{ 38 }	633
Race, Joseph P., St. Paul, Minn. Brake shoe and head.....	369,736	Sept. 13	581	158	40	1154
Racine Hardware Manufacturing Company, <i>et al.</i> (See Durant, Linn, and Shupe, assignors.)						
Racine Hardware Manufacturing Company, <i>et al.</i> (See Linn, Allen D., assignor.)						
Racine Shade Roller Company. (See Shaw, A. B., assignor.)						
Radant, August F., Wausau, Wis. Feed mechanism for saw-mill carriages.....	367,235	July 26	2043	{ 550 551 }	{ 40 }	411
Radcliffe, Albert N. (See Giles, Julian A., assignor.)						
Radcliffe, Francis, Plumstead, county of Kent, assignor to H. A. Gadsden, London, England. Gas-furnace.....	357,030	Feb. 1	401	108	38	496
Raddin, John, Lynn, Mass. Hub-attaching device.....	370,818	Oct. 4	87	24	41	19
Rader, Gustav, New York, N. Y. Underground conduit for electric wires.....	369,813	Sept. 13	685	185	40	1173
Rader, Peter, Kirklin, Ind. Coupling for cultivators.....	373,604	Nov. 22	2017	535	41	873

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Radford, Benjamin F., Hyde Park, Mass. Pulley.....	355,555	Jan. 4	340	91	38	68
Radford, Cassius M., Concord, N. H. Mechanical telephone.....	360,362	Mar. 29	2934	746	38	1479
Radford, Cassius M., assignor, by mesne assignments, to Popular Telephone Company, Concord, N. H. Mechanical telephone.....	357,967	Feb. 15	1777	466	38	770
Radford, Cassius M., East Concord, assignor of one-half to N. E. Martin, Concord, N. H. Railway-train signal.....	369,657	Sept. 6	479	133	40	1126
Radford, Samuel H., Hartsell's, Ala. Sash-balance.....	358,070	Feb. 22	1929	509	38	804
Radl, John. (See Svacina and Radl.)						
Radley, Henry. (See Riley and Radley.)						
Rae, Jackson, <i>et al.</i> (See Leggo, William A., assignor.)						
Rae, John, New York, N. Y. Steam-engine indicator.....	366,252	July 12	694	189	40	139
Rae, Julio H., Dayton, Nev. Apparatus for saving floured quicksilver.....	364,372	June 7	225	63	39	1132
Rae, Julio H., Dayton, Nev. Vacuum-dredge.....	368,354	Aug. 16	1471	392	40	748
Raffel, Isaac G., assignor to L. Raffel, Baltimore, Md. Combined pocket-case.....	375,683	Dec. 27	2160	562	41	1487
Raffel, Lillie. (See Raffel, Isaac G., assignor.)						
Rafferty, Patrick, Ovid, N. Y. Revolving grate-bar.....	358,786	Mar. 1	535	131	38	1003
Raffour, Alphonse and E., Besançon, France. Machine for tapping water-mains.....	372,929	Nov. 8	971	{ 263 } { 264 }	{ 41 }	658
Raffour, Emile. (See Raffour, Alphonse and E.)						
Rahm, Philip, New Orleans, La. Rice-pounder.....	356,501	Jan. 25	1727	451	38	353
Rähse, Ferdinand, Löbau, Saxony, Germany. Piano-tuning pin.....	356,159	Jan. 18	1247	329	38	254
Railroad Switch Signal and Gate Company. (See Mills, Mortimer B., assignor.)						
Railsback, Jeremiah J., assignor of one-half to W. J. Swaim, Indianapolis, Ind. Belt-re-placer.....	358,787	Mar. 1	535	131	38	1003
Railway Register Company. (See Meaker, John W., assignor.)						
Railway Telegraph Company. (See Barrett, John A., assignor.)						
Railway Telegraph Company. (See Phelps, Lucius J., assignor.)						
Rainaud, Elzidas, assignor of one-half to A. P. Quigley, Jamestown, N. Y. Machine for rounding or beveling the insoles of boots, &c.....	358,788	Mar. 1	536	{ 131 } { 132 }	{ 38 }	1003
Rais, Adrian, assignor to Randolph & Clowes, Waterbury, Conn. Device for drawing shells and tubes.....	363,910	May 31	2609	678	39	995
Raison, Lewis W., <i>et al.</i> (See Rigby, Clark F., assignor.)						
Rakestraw, Roland, Wyoming, Ill. Rotary harrow.....	364,130	May 31	2934	762	39	1057
Rakestraw, W. H. (See Beard, George M., assignor.)						
Ralph, Anna, Bradford, Pa. Garment-supporter.....	361,239	Apr. 12	1233	313	39	234
Ralston, David, Carlisle, Pa., assignor of one-fourth to J. M. Ralston, Jr., Ocean Grove, N. J. Clearing attachment for harvester-platforms.....	365,097	June 21	1303	{ 344 } { 345 }	{ 39 }	1347
Ralston, James M., Jr. (See Ralston, David, assignor.)						
Ralya, John J., Anderson, Ind. Saw.....	364,131	May 31	2937	763	39	1058
Ramel, Alfred, and W. W. Dean, assignor of one-half to P. Bakewell, St. Louis, Mo. Electric synchronizing apparatus for clocks.....	365,023	June 14	1178	309	39	1314
Ramey, Mollie L., Hot Springs, Ark. Stove.....	369,365	Sept. 6	81	25	40	1049
Ramminger, Philip, Greenwood, Wis. Farm-gate.....	361,449	Apr. 19	1516	392	39	298
Ramsay, Alexander, Salem, N. J. Loop for harness.....	372,171	Oct. 25	2073	531	41	429
Ramsay, George H., Excelsior Mines, Iowa. Mining-cage.....	356,208	Jan. 18	1303	{ 344 } { 345 }	{ 38 }	264
Ramsay, Hugh, Perth Amboy, N. J. Device for steadying the heads of rudders.....	359,177	Mar. 8	1079	281	38	1109
Ramsay, William, Washington, D. C. Spectacle-frame.....	368,852	Aug. 23	2182	579	40	892
Ramsdell, Emery A., assignor to W. L. Newhall, Lynn, Mass. Deep-sea-fishing device.....	356,789	Feb. 1	65	18	38	435
Ramsdell, Raymond L. (See Andrews and Ramsdell.)						
Ramsden, John W., and H. S. Ellis, Leeds, county of York, England. Sewing-machine....	357,334	Feb. 8	852	{ 222 } { 223 }	{ 38 }	588
Ramsey, John W., assignor of one-half to J. Corbus, Beaver Falls, Pa. Pressure-regulator.....	361,082	Apr. 12	990	250	39	189
Ramsey, Marcellus, Miles Grove, Pa. Scaffold-bracket.....	363,483	May 24	2002	{ 522 } { 523 }	{ 39 }	875
Ramstad, Andrew, Meridian, Wis. Guide for feeders for planing-machines.....	364,542	June 7	487	131	39	1179
Rancevau, John, assignor of one-half to W. Disney, Cincinnati, Ohio. Car-coupling.....	359,813	Mar. 22	2060	522	38	1313
Rand, Charles N., Galesburg, Ill. Organ-reed.....	358,571	Mar. 1	238	55	38	947
Rand, Edson L., Goffstown, N. H. Oiler.....	369,125	Aug. 30	2572	683	40	977
Rand, Ezekiel C. M., New York, N. Y. Making indexed books.....	359,469	Mar. 15	1504	385	38	1196
Rand, George W., <i>et al.</i> (See Runels, Charles, assignor.)						
Rand, Jefferson C., and E. Thompson, Maynard, Iowa. Counting attachment for thrashers.....	375,507	Dec. 27	1895	496	41	1439
Rand, William J., Brooklyn, N. Y. Holder or hook for eyeglasses.....	374,702	Dec. 13	761	199	41	1205
Randall, Aaron F., Washington, D. C. Oil-gas generator.....	367,844	Aug. 9	740	{ 199 } { 200 }	{ 40 }	601
Randall, Alice. (See Randall, Purdy M. and A.)						
Randall, Benjamin F., Fall River, Mass. Barbed metallic fencing.....	359,178	Mar. 8	1080	281	38	1116
Randall, Isaac, Milwaukee, Wis. Stamp-affixing device.....	361,450	Apr. 19	1517	392	39	299
Randall, John L. (See White, Reynolds T., assignor.)						
Randall, Joseph S., assignor of two-thirds to W. S. Barnett and W. H. Sigel, Grand Rapids, Mich. Key-fastener.....	364,296	June 7	125	36	39	1113
Randall, Purdy M. and A., assignors, by mesne assignments, to W. Meyst, W. A. Holbrook, and R. Klau, Milwaukee, Wis. Bustle.....	360,726	Apr. 5	472	120	39	88
Randall, Richard N. (See Goodenough, Franklin L., assignor.)						
Randall, Silas H., Wyoming, Ohio. Leather-creasing machine.....	357,230	Feb. 8	718	185	38	563
Randall, Thomas L., Unadilla, N. Y. Axle-lubricator.....	362,313	May 3	339	94	39	540
Randall, William T. (See Lippincott, Thomas W., assignor.)						
Randel, William, Troy, N. Y. Button-hole sewing-machine.....	363,678	May 24	2281	{ 591 } { 592 }	{ 39 }	927
Randolph, Alfred, Williamsport, Pa. Governor.....	360,914	Apr. 12	737	{ 193 } { 194 }	{ 39 }	143
Randolph & Clowes. (See Rais, Adrian, assignor.)						
Randolph, Frank D., assignor of one-half to R. Gorton, Plainfield, N. J. Bicycle.....	373,028	Nov. 8	1132	302	41	686
Randolph, George W., Memphis, Tenn. Side harrow and cultivator.....	366,607	July 12	1178	316	40	233
Randolph, Joseph, assignor to Pewamo Manufacturing Company, Pewamo, Mich. Paper-hanger.....	369,029	Aug. 30	2436	647	40	950
Randolph, Mahlon, New York, N. Y., assignor to Randolph Manufacturing Company, of New York. Journal-bearing. (Reissue).....	10,794	Jan. 4	515	136	38	102
Randolph, Mahlon, New York, N. Y., assignor to Randolph Manufacturing Company, of New York. Anti-friction journal-bearing.....	356,331	Jan. 18	1482	390	38	298
Randolph, Mahlon, New York, N. Y., assignor to Randolph Manufacturing Company, of New York. Journal-bearing.....	356,332	Jan. 18	1482	391	38	298
Randolph, Mahlon, New York, N. Y., assignor to Randolph Manufacturing Company, of New York. Car-axle box.....	356,333	Jan. 18	1483	391	38	298

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Randolph Manufacturing Company. (See Randolph, Mahlon, assignor.)						
Randolph Manufacturing Company. (See Randolph, Mahlon, assignor.) (Reissue.)						
Randolph, Richard, Baltimore, Md. Car-brake	356,790	Feb. 1	65	19	38	435
Range, James. (See Willcox and Range.)						
Rank, Erdmann. (See Rank, John G. C. and E.)						
Rank, John G. C. and E., St. Paul, Minn. Motor	372,086	Oct. 25	1956	504	41	406
Rankin, Edmund, Jr., Lincoln, Ill. Harrow	366,876	July 19	1548	415	40	309
Rankin, Francis M., Covington, Ohio. Filter for cisterns	370,281	Sept. 20	1387	372	40	1311
Rankin, Thomas L., Quenemo, Kans. Gas-compressing pump for ice-machines	361,596	Apr. 19	1718	444	39	336
Rankin, William H., Lawrence, Mass. Carding-machine	365,405	June 28	1757	{ 455 456 }	{ 39 }	1445
Rankine, James L. (See Reed, John C., assignor.)						
Ranney, Darwin D., Lewistown, Ill. Machine for canning	373,306	Nov. 15	1551	{ 409 410 411 }	{ 41 }	774
Ransom, Hiram W., assignor of one-half to Emerson & Fisher Company, Cincinnati, Ohio. Buggy-boot	357,690	Feb. 15	1386	365	38	697
Ransom, Newman A., Chicago, Ill. Carbureting-lamp	360,915	Apr. 12	739	194	39	144
Ransom, Peter, Pultney, N. Y. Thill-tug	371,218	Oct. 11	688	177	41	144
Ransom, William Z., St. Joseph, Mo. Elevator	375,385	Dec. 27	1739	456	41	1408
Ransweiler, William, Akron, Ohio. Baby-jumper	375,096	Dec. 20	1352	353	41	1324
Rapalje, John P. (See Reynolds, Samuel F., assignor.)						
Rapid Service Store Railway Company. (See Hart, Henry C., assignor.)						
Rapid Service Store Railway Company. (See Hart and Yoe, assignors.)						
Rapid Service Store Railway Company. (See Kuehn, George W., assignor.)						
Rapid Service Store Railway Company. (See McCarty and Yoe, assignors.)						
Raphael, Meyer, Portland, Oreg. Registering-tag	366,253	July 12	696	189	40	139
Rapp, August, Pullman, assignor to G. M. Pullman, Chicago, Ill. Life-guard for street-cars. Rapp, Barnet R. (See Talley and Rapp.)	358,366	Feb. 22	2338	620	38	880
Rappaport, Louis, assignor of one-half to I. E. Söhne, Breslau, Silesia, Prussia, Germany. Means for securing glass elevator-cups to belts	372,329	Nov. 1	66	20	41	484
Rappleye, Hannibal W., Philadelphia, Pa. Regulator for gas-burners	369,960	Sept. 13	921	245	40	1216
Rasmusen Cable Company. (See Hopkins, William, assignor.)						
Rasmusen Cable Company. (See McNeill, Hobart W., assignor.)						
Rasmussen, Einar, Hartford, Conn., assignor, by mesne assignments, to Pope Manufacturing Company, Portland, Me. Lamp for velocipedes, &c.	368,355	Aug. 16	1473	392	40	748
Rast, August, M. Gasser, and H. Zwanziger, Vienna, Austria-Hungary. Press for stamping metal seals, &c.	373,905	Nov. 29	2448	657	41	964
Ratekin, Silas E., Kansas City, Mo. Wire-cloth-delivering reel	364,855	June 14	940	248	39	1271
Ratekin, Silas E., Kansas City, Mo. Wire-cloth-delivering reel	369,126	Aug. 30	2573	684	40	977
Rathbone, Clarence, Albany, N. Y. Ventilating attachment for stoves	367,445	Aug. 2	119	34	40	474
Rathbone, John S., Asheville, N. C. Tag and tag-fastener	361,451	Apr. 19	1518	393	39	299
Rathbone, Sard & Co. (See Collins, Francis M., assignor.)						
Rathbun, Frank A., Beloit, assignor to F. W. Kimball, Milwaukee, Wis. Wheeled scraper. Rathbun, James B., New Haven, Conn. Thill-coupling	371,704	Oct. 18	1379	356	41	288
Rathbun, Stephen W., and D. R. Kinley, Marion, Iowa. Printer's galley	370,210	Sept. 20	1299	346	40	1294
Rathburn, Seth, Chicago, Ill. Music-leaf turner	367,446	Aug. 2	120	34	40	474
Rathgeber, John and W. J., New Haven, Conn. Curtain-fixture	356,959	Feb. 1	299	83	38	477
Rathgeber, William J. (See Rathgeber, John and W. J.)	364,670	June 14	644	173	39	1217
Rattle, William J. (See Balkwill, Percy S., assignor.)						
Rau, Charles. (See Reisky and Wolff, assignors.)						
Rau, Eugene. (See Holliday and Rau.)						
Rau, Eugene, assignor to J. G. Watmough, Philadelphia, Pa. Machine for clouding or marbleizing plush	362,178	May 3	168	49, 50	39	506
Rau, Eugene, assignor to J. G. Watmough, Philadelphia, Pa. Machine for finishing cloth. Rau, Eugene, assignor to J. G. Watmough, Philadelphia, Pa. Dyeing	373,193	Nov. 15	1383	{ 366 367 }	{ 41 }	743
Rau, Louis C., Galveston, Tex. Lock	374,320	Dec. 6	218	57	41	1087
Raudabaugh, Joshua R., Celina, Ohio. Attachment for sulky-plows	369,030	Aug. 30	2437	647	40	951
Rauh, Samuel, New York, N. Y. Knee-protector	355,338	Jan. 4	67	18	38	14
Rauh, Samuel, New York, N. Y. Child's leggin	356,502	Jan. 25	1727	451	38	353
Rauh, Samuel, New York, N. Y. Making armpit-shields	365,941	July 5	266	70	40	51
Rauh, Samuel, New York, N. Y. Making armpit-shields	371,705	Oct. 18	1382	357	41	289
Rawbone, Joseph L. (See Rawbone, William G. and J. L.)						
Rawbone, William G. and J. L., Toronto, Ontario, Canada. Stretcher and fastener for frame-joints	368,236	Aug. 16	1313	346	40	715
Rawitser, Frederick. (See Lewenberg, Clara, assignor.)						
Rawle, James, Philadelphia, Pa. Cotton-harvester	362,588	May 10	731	{ 203 204 }	{ 39 }	617
Rawles, John, Macomb, assignor of one-half to D. F. Chidester and G. H. McElvain, Bushnell, Ill. Car-coupling	362,996	May 17	1320	350	39	732
Rawson, Edmond G. (See Stearns, Henry F., assignor.)						
Ray, Alexander, assignor of two-thirds to C. S. Lowry and S. B. Van Dusen, Philadelphia, Pa. Hoisting apparatus	374,085	Nov. 29	2706	726	41	1016
Ray, Alexander, assignor of two-thirds to C. S. Lowry and S. B. Van Dusen, Philadelphia, Pa. Hoisting machinery	374,086	Nov. 29	2708	727	41	1017
Ray, Charles E., San Francisco, Cal. Trousers-stretcher	356,960	Feb. 1	300	83	38	477
Ray, Edward, et al. (See Larkin, John C., assignor.)						
Ray, Frank B., Kansas City, Mo. Frame for advertisements and transparencies	369,737	Sept. 13	581	158	40	1154
Ray, Ossian, et al. (See Larkin, John C., assignor.)						
Ray, Robert L., Union, Iowa. Five-horse evener	364,435	June 7	318	87	39	1149
Ray, Samuel H., St. Louis, Mo., assignor of one-half to G. S. Tyler, Alton, Ill. Nut-lock. Raybuck, Balthaser S., Freed, W. Va. Force-pump	371,971	Oct. 25	1773	459	41	375
Raybuck, Balthaser S., Freed, W. Va. Force-pump	371,972	Oct. 25	1773	460	41	376
Raydt, Wilhelm, Hanover, Prussia, Germany. Apparatus for forcing beer	357,031	Feb. 1	402	109	38	496
Raydt, Wilhelm, Hanover, Prussia, Germany. Apparatus for making aerated water	358,165	Feb. 22	2069	545	38	828
Raymond, Cadwallader M., Boston, Mass. Extension ice-skate	357,629	Feb. 15	1288	{ 338 339 }	{ 38 }	680
Raymond, Francis. (See Wilson, William C., assignor.)						
Raymond, Freeborn B., Rochester, N. Y. Die for cutting harness-straps	356,662	Jan. 25	1955	513	38	396
Raymond, Freeborn B., assignor of one-half to F. Fullam, Rochester, N. Y. Die for forming harness-straps	369,031	Aug. 30	2440	{ 647 648 }	{ 40 }	951
Raymond, Freeborn F., 2d. (See Small, Chester C., assignor.)						
Raymond, Freeborn F., 2d, Newton, Mass. Attaching heels to the soles of boots or shoes. Raymond, Freeborn F., 2d, Newton, Mass. Making headed nails	355,556	Jan. 4	340	91	38	69
Raymond, Freeborn F., 2d, Newton, Mass. Making headed nails	355,839	Jan. 11	761	199	38	155
Raymond, Freeborn F., 2d, Newton, Mass. Nail making and distributing machine	355,840	Jan. 11	762	200	38	155

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Raymond, Freeborn F., 2d, Newton, Mass. Nail distributing and driving machine.....	356,209	Jan. 18	1304	{ 345 346	38	265
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nail.....	356,549	Jan. 25	1789	466	38	364
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nail and using the same.....	356,550	Jan. 25	1790	466	38	364
Raymond, Freeborn F., 2d, Newton, Mass. Nail-strip and forming nails.....	356,551	Jan. 25	1791	467	38	364
Raymond, Freeborn F., 2d, Newton, Mass. Nail making, distributing, and driving device..	356,552	Jan. 25	1793	{ 467 468 469 470	38	364
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine.....	356,553	Jan. 25	1797	{ 471 472	38	365
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine.....	356,554	Jan. 25	1804	{ 472 473	38	366
Raymond, Freeborn F., 2d, Newton, Mass. Rand and making the same.....	356,890	Feb. 1	210	59	38	460
Raymond, Freeborn F., 2d, Newton, Mass. Laying outsoles.....	357,335	Feb. 8	855	223	38	588
Raymond, Freeborn F., 2d, Newton, Mass. Forming heel-rands.....	357,735	Feb. 15	1456	381	38	710
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine.....	358,298	Feb. 22	2249	{ 593 594	38	863
Raymond, Freeborn F., 2d, Newton, Mass. Nail distributing and driving machine.....	358,695	Mar. 1	411	98, 99	38	980
Raymond, Freeborn F., 2d, Newton, Mass. Staple-strip blank.....	358,985	Mar. 8	840	212	38	1064
Raymond, Freeborn F., 2d, Newton, Mass. Attaching heels.....	368,006	Aug. 9	983	264	40	646
Raymond, James N. (See Heiss, Charles E., assignor.)						
Raymond, Murray M., Corry, Pa. Combined hat and coat hook.....	366,608	July 12	1180	316	40	233
Raymond, Pierre A., assignor to Perrin Frères, Grenoble, France. Button.....	369,882	Sept. 13	802	214	40	1195
Raymond, Silas H., Grand Rapids, Mich. Device for turning eggs.....	359,327	Mar. 15	1294	336	38	1156
Raymond, William O., and W. H. Derrick, Rochester, N. Y. Suspender attachment.....	360,049	Mar. 29	2455	625	38	1392
Raynal, Alfred H., Hoboken, N. J., assignor to C. H. De Lamater, G. H. Robinson, and W. De Lamater, New York, N. Y. Mold for casting tube-heads.....	361,373	Apr. 19	1415	365	39	279
Raynes, Warren L., Montezuma, Ind. Saw-mill set-works.....	357,032	Feb. 1	405	109	38	497
Raynes, Warren L., Montezuma, Ind. Saw-mill dog.....	371,786	Oct. 18	1494	385	41	312
Rea, John L. (See Hartis and Rea.)						
Reach, Robert, Philadelphia, Pa. Base-ball mask.....	364,543	June 7	488	{ 131 132	39	1179
Reach, Robert, Philadelphia, Pa. Exercising-machine.....	368,111	Aug. 9	1118	297	40	671
Reach, Robert, Philadelphia, Pa. Exercising-machine.....	374,496	Dec. 6	465	{ 120 121	41	1135
Read Carpet Company. (See Read and Knight, assignors.)						
Read, D. Dean, Boston, Mass. Elevated railway.....	373,605	Nov. 22	2017	535	41	873
Read, Frederick W., Bridgeport, Conn., and H. Knight, Providence, R. I., assignors to Read Carpet Company, Bridgeport, Conn. Producing design and color effects in ingrain carpets.....	360,482	Apr. 5	124	.....	39	24
Read, George H., Brooklyn, N. Y. Camera-stand.....	355,413	Jan. 4	161	42	38	32
Read, James A., Arlington, N. J., assignor to Rubber and Celluloid Harness Trimming Company, of New Jersey. Manufacture of brushes.....	372,385	Nov. 1	152	44	41	498
Read, John W., San Diego, Cal. Brick-kiln fire-box.....	365,632	June 28	2096	546	39	1510
Read, Thaddeus C., Fostoria, Ohio. Desk.....	373,753	Nov. 22	2221	595	41	914
Reade, Charles A., Chicago, Ill. Hansom-cab.....	356,160	Jan. 18	1247	330	38	254
Reader, James H., Waynesborough, Pa. Spark-arrester.....	358,986	Mar. 8	841	213	38	1064
Reading Hardware Company. (See Chantrell, John.)						
Reading Hardware Company. (See Jones, Griffith L., assignor.)						
Reading Hardware Company. (See Rippien, Adolph, assignor.)						
Reading, William, Rockville, Md. Car-spittoon.....	365,537	June 28	1956	509	39	1485
Ready, James R., assignor to J. Koon, New Haven, Conn. Binding attachment for sewing-machines.....	375,196	Dec. 20	1489	390	41	1352
Ready, William D., New York, N. Y. Temporary binder.....	369,207	Aug. 30	2669	710	40	997
Reagan, Dominick A., Altoona, Pa. Sand-pipe for locomotives.....	367,062	July 26	1785	482	40	362
Ream, Theodore J. (See Souders, Jacob, assignor.)						
Reamer, William S., Oswego, Kans. Rope-measuring device.....	364,856	June 14	941	249	39	1271
Reames, M. R. (See Nalley, Peter B., assignor.)						
Reams, Andrew J., Augusta, Kans. Programme-clock.....	367,662	Aug. 2	453	125	40	537
Reams, Andrew J., Augusta, Kans. Electric programme-clock.....	367,663	Aug. 2	456	{ 125 126	40	538
Reams, William, Pittsburg, Pa. Low-water fire-extinguisher.....	365,861	July 5	147	38	40	30
Reardon, George W. (See Ammons, John B., assignor.)						
Reardon, Munroe, New York, N. Y. Shoe or corset fastening.....	371,357	Oct. 11	880	226	41	180
Reaser, Warren T., Fairmont, Nebr., assignor to Round Valve Company, Chicago, Ill. Balanced oscillating valve.....	363,765	May 24	2411	625	39	952
Reaves, Josiah T., Bently, Miss. Fire-place.....	356,262	Jan. 18	1375	364	38	279
Reckenzaun, Anthony, London, county of Essex, England. Secondary battery.....	371,358	Oct. 11	880	226	41	180
Record, James L., assignor of one-half to J. Garbett, Minneapolis, Minn. Horse-power....	368,970	Aug. 30	2355	625	40	935
Recordon-Sulliger, Louis. (See Paillard and Recordon-Sulliger.)						
Redding, William A., New York, assignor to F. W. Snow, Hillburn, N. Y. Switch-stand..	374,269	Dec. 6	134	36	41	1073
Redett, William, Fredericksburg, Ohio. Slate roof.....	357,503	Feb. 8	1091	288	38	634
Redfield, Edward E. and J. H., Linkville, Oreg. Fire-arm.....	362,110	May 3	85	26	39	489
Redfield, John H. (See Redfield, Edward E. and J. H.)						
Redfield, John W., Glendale, Oreg. Breech-loading fire-arm.....	356,961	Feb. 1	301	83	38	478
Redfield, John W., Glendale, Oreg. Fire-arm.....	358,071	Feb. 22	1930	509	38	804
Redington, William H., Chicago, Ill. Bottle-stopper.....	360,246	Mar. 29	2768	703	38	1449
Redl, Carl, Vienna, Austria-Hungary. Device for indicating life in buried persons.....	371,626	Oct. 18	1256	{ 326 327	41	263
Redman, Edward, assignor to W. Fisher, London, England. Velocipede.....	356,600	Jan. 25	1862	490	38	378
Redman, Robert S., Newark, N. J. Dental lathe.....	371,706	Oct. 18	1383	357	41	289
Redmond, Daniel M., Philadelphia, Pa. Machine for making paragon umbrella-ribs.....	364,436	June 7	319	87, 88	39	1149
Redmond, Edmond, Rochester, N. Y. Hand-protector for ball-players.....	368,112	Aug. 9	1119	297	40	672
Redmond, Francis, London, England. Nut-lock.....	370,559	Sept. 27	1812	482	40	1397
Redmond, Joseph H., San Francisco, Cal. Sheave-block.....	360,050	Mar. 29	2456	625	38	1392
Redmond, Newton. (See Davis and Redmond.)						
Reece, John. (See Hill, George S., assignor.)						
Reece, John, Boston, Mass. Clutch mechanism.....	363,421	May 24	1903	500	39	855
Reece, John, Boston, Mass. Clutch mechanism.....	367,063	July 26	1786	482	40	362
Reece, John, Boston, Mass. Button-hole piece for boots or shoes.....	368,619	Aug. 23	1847	494	40	829
Reece, John, Boston, Mass. Sewing-machine.....	370,412	Sept. 27	1586	424	40	1356
Reece, John, Boston, Mass. Button-hole piece.....	373,153	Nov. 15	1324	351	41	732

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Reed & Barton. (See Jackson, Austin F., assignor.)						
Reed, Charles E. (See Yeatman, Alfred O., assignor.)						
Reed, Charles M., near Connersville, and W. C. Frazee, near Clermont, Ind. Tricycle.....	361,024	Apr. 12	912	230	39	173
Reed, Edwin A., Springfield, Me. Grapple-adjuster	373,194	Nov. 15	1385	367	41	743
Reed, Elizabeth A., Chicago, Ill. Combined steamer and roaster	374,755	Dec. 13	834	{ 218 219 }	{ 41 }	1219
Reed, Franklin, <i>et al.</i> (See Foote, Theodore M., assignor.)						
Reed, Frederick E. (See Back, John R., assignor.)						
Reed, George. (See Mellett and Prince, assignors.)						
Reed, George. (See Shorter, Dennis W., assignor.)						
Reed, Hiram V., Chicago, Ill. Agitating rotary drier.....	368,227	Aug. 16	1314	346	40	716
Reed, Horace B., Woodland, Cal. Vineyard-cultivator	373,906	Nov. 29	2449	657	41	964
Reed, Hugh T., Richmond, Ind. Shelving	359,691	Mar. 22	1871	475	38	1279
Reed, James, Cambridge, Mass. Folding hoop for landing-nets	367,928	Aug. 9	861	234	40	624
Reed, James H., Lynn, Mass. Button-hole-stitching machine.....	357,537	Feb. 8	1148	{ 301 302 }	{ 38 }	644
Reed, James H., Lynn, Mass. Machine for setting lacing-hooks	373,307	Nov. 15	1554	411	41	774
Reed, James M., <i>et al.</i> (See Firth, Thomas R., assignor.)						
Reed, John C., assignor of one-half to J. L. Rankine, Topeka, Kans. Car-coupling	374,087	Nov. 29	2710	727	41	1017
Reed, John J. (See Duncan, Albert E., assignor.)						
Reed, Lemon M., Cleveland, Ohio. Belt-fastener	355,841	Jan. 11	764	201	38	156
Reed, Lewis M., Burrton, Kans. Stalk-cutter.....	371,627	Oct. 18	1257	327	41	263
Reed Manufacturing Company. (See Mathias, David H., assignor.)						
Reed, Thomas S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Electric conductor	367,548	Aug. 2	280	79	40	504
Reed, William, Indianapolis, Ind., assignor of one-half to E. E. Snyder, Chicago, Ill. Hold-back	372,236	Oct. 25	2177	559	41	449
Reed, William J., Kingsville, S. C. Lantern	363,679	May 24	2283	592	39	928
Reed, William S., Leominster, Mass. Game apparatus.....	363,848	May 31	2532	658	39	981
Reed, William T., Winnipeg, Manitoba, assignor of one-half to P. Clarke, Toronto, Canada. Spark-arrester	364,857	June 14	943	249	39	1272
Reedy, Henry J. (See Shaw and Reedy.)						
Rees, B. F. (See Timms, James, assignor.)						
Rees, George M., Brooklyn, N. Y. Paper-ruler	371,362	Oct. 11	884	227	41	180
Rees, Ralph. (See Melville, Frank B., assignor.)						
Rees, Thomas M., Allegheny, Pa. Means for securing in position the frame-work of vessels	373,095	Nov. 15	1226	327	41	716
Rees, Thomas W., assignor to Snowden & Co., Philadelphia, Pa. Circulating water-heater	373,754	Nov. 22	2223	595	41	915
Reese, Abram, Pittsburg, Pa. Tube-coupling.....	360,172	Mar. 29	2662	672	38	1428
Reese, Abram, Pittsburg, Pa. Cut-off for gas-supply pipes	368,168	Aug. 9	1197	320	40	686
Reese, Adam R., Phillipsburg, N. J. Coffin	367,728	Aug. 2	574	156	40	559
Reese, Evan L., San Francisco, Cal. Brake for railways	364,437	June 7	323	89	39	1149
Reese, Frederick W. (See Huckleberry and Reese.)						
Reese, George A., assignor of one-half to J. M. Lively, Wellston, Ohio. Lever-wrench	371,476	Oct. 11	1043	271	41	212
Reese, Jacob, Pittsburg, Pa. Rolls for reducing old rails to angle-bars	371,359	Oct. 11	882	226	41	180
Reese, Jacob, Pittsburg, Pa. Rolls for rolling deck-beams.....	371,360	Oct. 11	883	227	41	180
Reese, Jacob, Pittsburg, Pa. Conversion of old rails into girders	371,361	Oct. 11	884	227	41	180
Reese, Jacob, Pittsburg, Pa. Phosphatic fertilizer	372,087	Oct. 25	1957	.....	41	406
Reese, William, Jr. (See Feldman and Reese.)						
Reeve, Thomas, Jr., Glassborough, N. J., assignor of one-half to C. Scheer, Philadelphia, Pa. Hair-spring plier	356,729	Jan. 25	2040	536	38	411
Reeves, Alfred B., assignor to Reeves & Co., and J. I. Irwin, Columbus, Ind. Straw-stacker	368,971	Aug. 30	2356	625	40	935
Reeves & Co., <i>et al.</i> (See Reeves, Alfred B., assignor.)						
Reeves, Oscar L. (See Vernon and Reeves.)						
Reeves, Peter B., Brooklyn, assignor of two-thirds to B. L. Fairchild, New York, and P. E. Newsom, Brooklyn, N. Y. Chalk-holder	371,150	Oct. 4	592	152	41	116
Reeves, Virgil A., Fort Worth, Tex. Measuring-vessel	371,276	Oct. 11	768	197	41	159
Reeves, William C., Cramer Hill, N. J. Buggy-seat pocket	364,771	June 14	812	213	39	1247
Regan, Cornelius M., Brooklyn, N. Y. Wagon-axle	362,659	May 10	845	231	39	637
Regar, George H., and O. T. Moock, assignors of one-third to J. B. Mayer, Philadelphia, Pa. Conduit for traction-railways	363,912	May 31	2614	678	39	996
Regenstein, Theodore, Chicago, Ill. Safety-button.....	371,707	Oct. 18	1384	357	41	289
Register, Robert A., Baltimore, Md. Device for casting metal.....	366,254	July 12	697	189	40	139
Register, Robert A., Baltimore, Md. Molder's pot	370,159	Sept. 20	1226	326	40	1280
Register, Robert A., Baltimore, Md. Cock-grinding machine.....	370,160	Sept. 20	1226	{ 326 327 }	{ 40 }	1281
Register, Robert A., and G. D. Greenwood, Baltimore, Md. Automatic railway-signal	372,386	Nov. 1	154	44, 45	41	499
Register, Henry C., Philadelphia, Pa. Dental mallet	363,911	May 31	2611	678	39	995
Register, Henry C., Philadelphia, Pa. Dental engine	365,098	June 21	1304	345	39	1347
Register, Henry C., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental disk-carrier	362,783	May 10	1031	280	39	671
Rehfuss, Martin O., Philadelphia, Pa. Clutch and stop-motion for shafting.....	362,997	May 17	1321	{ 350 351 }	{ 39 }	732
Rehfuss, Martin O., assignor to Joly Stopper Company, Philadelphia, Pa. Bottle-stopper..	368,113	Aug. 9	1120	297	40	672
Rehn, Charles, San Francisco, Cal. Funnel.....	368,007	Aug. 9	984	264	40	646
Reibe, Carl A., Delavan, Wis. Windmill	361,894	Apr. 26	2165	561	39	426
Reiber, Henry B. (See Jay and Coate, assignors.)						
Reichenbach, Edward, Orrville, Ohio. Leveling-instrument for grading ditches	360,247	Mar. 29	2769	703	38	1449
Reichert, Adam, Tiffin, Ohio. Drag-saw	355,623	Jan. 4	425	117	38	84
Reichert, August, Milwaukee, Wis. Knitting-machine.....	358,881	Mar. 8	693	172	38	1036
Reichert, Letta R., Delaware, Ohio. Dust-pan	371,973	Oct. 25	1774	460	41	376
Reichert, Louis P., and A. Fuller, Buffalo, N. Y. Stop-cock box for water and gas pipes ..	358,696	Mar. 1	412	99	38	980
Reichle, Martin, <i>et al.</i> (See Gerstein, Dederick, assignor.)						
Reid, Andrew, and J. Jameson, Akenside Hill, Newcastle-upon-Tyne, England. Transformation picture and print.....	356,695	Jan. 25	1993	524	38	403
Reid, Arthur B. (See Haynes, William K., assignor.)						
Reid, George. (See Chappell, Rollin D., assignor.)						
Reid, George, <i>et al.</i> (See McKenzie, Daniel, assignor.)						
Reid, George, Reese, Mich. Harrow or cultivator tooth.....	367,845	Aug. 9	745	200	40	601
Reid, George, Jr., <i>et al.</i> (See Clifford, John M., assignor.)						
Reid, George P., Cuba, N. C. Wheel cultivator and seeder	371,097	Oct. 4	521	132	41	103
Reid, John, Dunedin, District of Otago, New Zealand. Wire-straining machine	374,810	Dec. 13	917	239	41	1235
Reid, John A., Napanee, Ontario, Canada. Fetlock-support for colts	374,996	Dec. 20	1210	315	41	1298

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Reid, John B., <i>et al.</i> (See Clifford, John M., assignor.)						
Reid, John K., Montreal, Quebec, Canada. Combined envelope and letter-sheet.....	365,406	June 28	1759	456	39	1445
Reid, Philip S. (See Ludwig and Reid.)						
Reid, Philip S., Philadelphia, Pa. Spectacles.....	363,484	May 24	2005	523	39	875
Reidel, Peter. (See Frank and Reidel.)						
Reif, Anton E. (See Reif, John and A. E.)						
Reif, John and A. E., Branch, Wis. Fence.....	358,166	Feb. 22	2071	545	38	829
Reiff, Joseph F. (See Backster and Reiff.)						
Reiff, Josiah C. (See Barney, William C., assignor.)						
Reihlen, Friedrich A., Stuttgart, Württemberg, Germany. Apparatus for preparing and bottling effervescent liquids.....	357,098	Feb. 1	503	134	38	515
Reilly, James, Brooklyn, N. Y. Domestic boiler.....	363,542	May 24	2090	541	39	891
Reilly, Nicholas F., New York, N. Y. Dumping-cart.....	366,428	July 12	911	247	40	181
Reilly, Patrick. (See Wood and Reilly.)						
Reilly, Patrick, Brooklyn, N. Y. Steam-boiler.....	359,814	Mar. 22	2061	522	38	1313
Reilly, Patrick J. (See McDermott, Peter, assignor.)						
Reilly, Robert M., Baltimore, Md. Pipe-joint.....	367,929	Aug. 9	862	235	40	624
Reiman, Fritz L. (See Witt, Richard G. A., assignor.)						
Reimers, Gustav, Wilmington, Ill. Foot-warmer.....	371,277	Oct. 11	769	197	41	159
Rein, Bernard, assignor to Detroit Stove Works, Detroit, Mich. Vapor-stove.....	362,660	May 10	846	231 232	39	637
Rein, Gustavus, St. Louis, Mo. Safety-razor.....	358,751	Mar. 1	485	118	38	993
Reinbold, John. (See Keck and Geiger, assignors.)						
Reindl, Wolfgang, and A. Lotstrom, Menominee, Mich. Boat.....	360,916	Apr. 12	741	194	39	144
Reinecke, Friedrich, Berlin, Germany. Tripod.....	356,891	Feb. 1	211	59	38	460
Reinecker, Julius E., Chemnitz, Germany. Tool-grinding machine.....	355,414	Jan. 4	161	42	38	32
Reiners, John M., New York, N. Y. Hand-grip tester.....	374,003	Nov. 29	2582	694	41	991
Reinhardt, Hermann O., Chihuahua, Mexico. Relief-valve for compressors.....	367,236	July 26	2044	551	40	411
Reinhardt, James H., assignor to J. Wetter, Memphis, Tenn. Consecutive-numbering machine.....	374,629	Dec. 13	661	173	41	1184
Reinhardt, Julia, New York, N. Y. Skirt-lining.....	370,161	Sept. 20	1228	327	40	1281
Reinisch, Charles, Newark, N. J. Strap-loop for bags or satchels.....	360,112	Mar. 29	2567	652	38	1412
Reinisch, Charles, Newark, N. J. Strap-loop.....	361,718	Apr. 26	1904	494	39	379
Reinisch, Charles, Newark, N. J. Bag-hinge stay.....	363,680	May 24	2285	593	39	928
Reinisch, Charles, Newark, N. J. Telescopic bag-hinge stay.....	365,276	June 21	1561	406	39	1394
Reinisch, Charles, Newark, N. J. Strap-loop and bag-fastening.....	367,237	July 26	2046	551	40	411
Reinisch, Charles, Newark, N. J. Telescopic bag-stay hinge.....	371,708	Oct. 18	1385	357	41	290
Reinisch, Charles, Newark, N. J. Strap-loop and bag-fastening. (Reissue).....	10,887	Dec. 6	583	152	41	1159
Reinisch, Charles, and L. Ochse, Newark, N. J. Bag-catch.....	360,113	Mar. 29	2569	652	38	1412
Reinke, Gustav, Nakel, Prussia, Germany. Self-acting carriage-brake.....	366,737	July 19	1362	365	40	275
Reinmann, Albert L., Pittsburg, Pa. Drying incandescent-electric-lamp bulbs.....	355,714	Jan. 11	577	151	38	123
Reinmann, Charles F., assignor to Westinghouse Electric Company, Pittsburg, Pa. Testing electric-lamp globes.....	374,850	Dec. 13	970	253	41	1245
Reinshagen, Peter W., Cincinnati, Ohio. Car-brake.....	359,179	Mar. 8	1081	281 282	38	1110
Reisch, Michael, Buffalo, N. Y. Jack-screw.....	364,373	June 7	226	64	39	1131
Reisky, Emil, and W. Wolff; said Reisky assignor to C. Rau, Rochester, N. Y. Bowling-alley.....	359,542	Mar. 15	1622	416	38	1217
Reisman, Adolph B., Boston, Mass. Pocket for garments.....	371,974	Oct. 25	1775	460	41	376
Reisner, Frank, Eugene City, Oreg. Key-fastener.....	361,183	Apr. 12	1148	289	39	218
Reiss, George T., assignor to Niles Tool Works, Hamilton, Ohio. Driving-dog for lathes.....	361,648	Apr. 19	1802	467	39	353
Reiter, Nicholas J. (See Hookey and Reiter.)						
Reixach, José. (See Lister and Reixach.)						
Remaly, George, Williamsport, Pa. Chair-brace.....	374,997	Dec. 20	1210	315	41	1298
Remillard, Edouard, Oakland, Cal. Excavating and grading machine.....	360,539	Apr. 5	213	52, 53	39	41
Remillon, Eugène J., Moberly, Mo., assignor to Kansas City Switch and Frog Company, of Missouri. Switch-stand.....	368,169	Aug. 9	1198	320	40	686
Remington, George L., Philadelphia, Pa. Safe or vault.....	368,781	Aug. 23	2080	551	40	872
Remington & Sons, E. (See Diss, Louis P., assignor.)						
Remlinger, John. (See Hutchinson, William J., assignor.)						
Remme, William R. (See Hickey and Remme.)						
Remmey, Richard C., Philadelphia, Pa. Composition for the manufacture of stoneware, &c.....	357,410	Feb. 8	957	.....	38	608
Rempis, John H. (See Moulton and Rempis.)						
Remsen, William H., Cedar Rapids, Iowa. Sleigh.....	359,692	Mar. 22	1872	475	38	1279
Remus, Theodor, assignor of one-half to J. Scherbel, Dresden, Saxony, Germany. Apparatus for grooving card-board.....	362,179	May 3	170	50	39	506
Remus, Theodor, assignor of one-half to J. Scherbel, Dresden, Saxony, Germany. Apparatus for cutting grooves in card-board, &c.....	362,180	May 3	171	50, 51	39	506
Remus, Theodor, assignor of one-half to J. Scherbel, Dresden, Saxony, Germany. Belt-fastener.....	368,423	Aug. 16	1568	419	40	767
Renard, Hippolyte, Scranton, Pa. Silk spinning and doubling machine.....	358,299	Feb. 22	2251	594	38	864
Renard, Hippolyte, assignor of one-half to T. Lewis, Scranton, Pa. Twisting-machine.....	361,544	Apr. 19	1637	424	39	322
Renner, Fredrick M., Long Island City, assignor to himself and J. Cabus, Jr., New York, N. Y. Vehicle.....	373,606	Nov. 22	2020	536	41	873
Renner, John, Burlington, Iowa. Folding ironing-stand and clothes-rack combined.....	368,238	Aug. 16	1316	347	40	716
Rennyson, William, Norristown, Pa. Flux.....	369,961	Sept. 13	922	.....	40	1217
Rennyson, William, Norristown, assignor of one-half to H. Burgess, Ardmore, Pa. Composition of brick.....	366,609	July 12	1181	.....	40	233
Reno, Griffin, assignor of one-fourth to A. Woodward, Kansas City, Mo. Truss.....	369,471	Sept. 6	219	62	40	1074
Reno, Zachary T., New Orleans, La., assignor to himself and J. S. Snedeker, New York, N. Y. Furnace for steam-boilers.....	358,034	Mar. 8	902	230	38	1075
Renshaw, Elmer E., Golconda, Ill. Ditching-machine.....	373,484	Nov. 22	1829	487	41	839
Renshaw, Joseph B., Hartford, Conn. Micrometer depth-gage.....	356,892	Feb. 1	213	60	38	460
Rentz, George, <i>et al.</i> (See Mahar, Michael W., assignor.)						
Renwick, James W. (See Benson, Christopher, assignor.)						
Repp, Charles, <i>et al.</i> (See Mahar, Michael W., assignor.)						
Repplier, George R., <i>et al.</i> (See Adams, John, assignor.)						
Requa, Elias B., Jersey City, N. J. Lamp.....	362,536	May 10	653	184	39	604
Requa, Elias B., Jersey City, N. J. Lamp.....	362,918	May 10	1207	323	39	705
Requa, Elias B., Jersey City, N. J. Lamp-burner.....	373,195	Nov. 15	1386	367	41	743
Rettig, Adam. (See Hennig and Rettig.)						
Rettig, George, assignor of one-half to Barnhart Brothers & Spindler, Chicago, Ill. Type-rubbing machine.....	370,819	Oct. 4	89	24, 25	41	19
Reuck, Henry, Pittsburg, Pa. Buggy-bow rest.....	367,064	July 26	1788	482	40	363

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Reversible Collar Company. (See Butterworth, Robert, assignor.)						
Revoir, Battese, Geddes, N. Y. Filter for the suction-pipes of pumps.....	362,314	May 3	340	94	39	540
Rew, H. L. (See Rew, Justus A., assignor.)						
Rew, Justus A., Pratt Township, Pratt County, Kans., assignor of one-fourth to H. L. Rew, Friendship, N. Y. Plow attachment.....	359,632	Mar. 22	1786	455	38	1263
Rew, Noel W., Garden City, Minn. Harrow attachment.....	361,836	Apr. 26	2074	539 } 540 }	39	409
Rew, Richard A., Pomeroy, Wash. Ter. Stove.....	374,556	Dec. 6	562	147	41	1155
Rew, Richard A., assignor to himself, C. B. Foote, and J. W. Hull, Pomeroy, Wash. Ter. Heating and ventilating apparatus.....	357,411	Feb. 8	958	252	38	608
Rex, Alfred C., Philadelphia, Pa. Toy safe.....	358,697	Mar. 1	413	100	38	980
Rex, Benjamin F. (See Cross, Arthur E., assignor.)						
Rex & Co., Alfred C. (See Swann, Thomas E., assignor.)						
Rexford, William W., Hurleyville, N. Y. Blind-stop.....	373,308	Nov. 15	1555	412	41	775
Reyner, Francis, Lathrop, Cal. Seed-drill.....	359,470	Mar. 15	1505	385	38	1196
Reynolds, Austin H., Corning, N. Y. Car-coupling.....	372,705	Nov. 8	621	169	41	598
Reynolds, Charles W., <i>et al.</i> (See Powers, Frank H., assignor.)						
Reynolds, Edward M., St. Louis, Mo. Car-coupling.....	375,386	Dec. 27	1740	457	41	1409
Reynolds, Edwin, Providence, R. I. Inking-pad for stamps.....	358,482	Mar. 1	90	22	38	920
Reynolds, Edwin, Providence, R. I. Hand-stamp.....	370,211	Sept. 20	1301	346	40	1294
Reynolds, George A., <i>et al.</i> (See Kingston, William, assignor.)						
Reynolds, George H. (See Crane and Reynolds.)						
Reynolds, George H., New York, N. Y., assignor to Crane Brothers Manufacturing Company, Chicago, Ill. Device for controlling the operation of elevators.....	360,248	Mar. 29	2770	703	38	1450
Reynolds, George H., New York, N. Y., assignor to Crane Elevator Company, Chicago, Ill. Electric valve-operating mechanism for elevators.....	361,778	Apr. 26	1987	518	39	394
Reynolds, George H., New York, N. Y., assignor to Crane Elevator Company, Chicago, Ill. Means for electrically controlling the operation of elevators.....	361,779	Apr. 26	1992	518	39	394
Reynolds, George H., New York, N. Y., assignor to Crane Elevator Company, Chicago, Ill. Electric valve-operating mechanism for elevators.....	361,780	Apr. 26	1994	519	39	394
Reynolds, George H., assignor of one-half to L. G. Fisher, Jr., Chicago, Ill. Heating apparatus.....	366,877	July 19	1549	415	40	309
Reynolds, George O., Brooklyn, N. Y. Machine for cutting up skins or pelts.....	372,088	Oct. 25	1959	504	41	407
Reynolds, Hanford, Gifford, Ill. Windmill.....	368,782	Aug. 23	2082	551 } 552 }	40	872
Reynolds, Henry, New Haven, Conn. Molding-machine.....	358,220	Feb. 22	2142	565	38	843
Reynolds, Henry S., Brooklyn, assignor to Iron Clad Manufacturing Company, New York, N. Y. Watering-pot.....	359,889	Mar. 22	2185	550 } 551 }	38	1335
Reynolds, Jabez. (See Turner and Reynolds.)						
Reynolds, James W., Brooklyn, N. Y. Lounge.....	372,089	Oct. 25	1961	505	41	407
Reynolds, Jesse, Philadelphia, Pa. Grate.....	366,687	July 19	1293	346	40	262
Reynolds, John R., assignor to Smyth Manufacturing Company, Hartford, Conn. Take-up for book-sewing machines.....	358,572	Mar. 1	239	56	38	948
Reynolds, John R., assignor to Smyth Manufacturing Company, Hartford, Conn. Signature-holding arm of book-sewing machines.....	366,793	July 19	1434	383	40	287
Reynolds, Oliver B., Brockton, Mass. Duplex oscillating printing-machine.....	362,998	May 17	1322	351 } 352 }	39	732
Reynolds, Oliver B., Brockton, Mass. Printing-machine.....	364,671	June 14	645	173 } 174 }	39	1217
Reynolds, Raymond A., Morrison, Ill. Automatic regulator for windmills.....	369,366	Sept. 6	82	26	40	1049
Reynolds, Samuel F., Auburn, assignor of one-half to J. P. Rapalje, Syracuse, N. Y. Automatic hose-reel.....	357,154	Feb. 1	612	157	38	533
Reynolds, Stephen H. (See Hood and Reynolds.)						
Reynolds, Willis H., Washington, D. C., assignor to Columbia Electric Light and Motor Company, of West Virginia. Electric governor.....	374,374	Dec. 6	291	77	41	1101
Rheem, John H., assignor, by mesne assignments, to himself, R. S. Field, Ottumwa, and W. H. Lehman, Des Moines, Iowa. Key-board attachment for pianos and organs.....	360,051	Mar. 29	2457	626	38	1392
Rheubottom & Co., Holcomb. (See Sharp, Van Schaick, assignor.)						
Rhentan, Abram A., assignor to W. H. Hill, Worcester, Mass. Envelope-machine.....	370,890	Oct. 4	217	55	41	43
Rhentan, Abram A., assignor to W. H. Hill, Worcester, Mass. Envelope-machine.....	370,969	Oct. 4	348	86	41	69
Rhind, Frank, Meriden, Conn. Lamp.....	361,545	Apr. 19	1637	425	39	322
Rhind, Frank, Brooklyn, N. Y., assignor to Bridgeport Brass Company. Lamp.....	356,962	Feb. 1	302	84	38	478
Rhind, Frank, assignor to E. Miller & Company, Meriden, Conn. Lamp.....	357,412	Feb. 8	960	253	38	609
Rhind, Frank, assignor to E. Miller & Co., Meriden, Conn. Hanging lamp.....	361,546	Apr. 19	1638	425	39	322
Rhind, Frank, assignor to E. Miller & Company, Meriden, Conn. Central-draft lamp.....	364,438	June 7	325	89	39	1150
Rhind, Frank, assignor of one-half to E. Miller & Company, Meriden, Conn. Wick-raiser.....	372,639	Nov. 1	524	143	41	570
Rhind, Frank, assignor to E. Miller & Company, Meriden, Conn. Shade-holder.....	373,154	Nov. 15	1325	351	41	733
Rhode Island Card-Board Company. (See Dexter, Henry B., assignor.)						
Rhode Island Copper Company. (See Emerson, Elisha, assignor.)						
Rhode Island Tool Company. (See Whitehead, George E., assignor.)						
Rhodes, Daniel, assignor of one-half to L. A. Dent, Washington, D. C. Spring-gun or toy pistol.....	368,307	Aug. 16	1412	373	40	736
Rhodes, John C., New Bedford, Mass. Fastening device or button for gloves.....	371,975	Oct. 25	1776	460	41	376
Rhodes, John W., Havana, Ill. Planter.....	355,715	Jan. 11	578	151	38	123
Rhodes, John W., Havana, Ill. Grain-drill.....	355,716	Jan. 11	580	152	38	124
Riale, Robert E., Topeka, Kans. Barb-fence signal.....	367,664	Aug. 2	461	126	40	539
Riber, John, Painter Creek, Ohio. Metal-shears.....	367,846	Aug. 9	745	201	40	602
Riblet, George J., Sr., Shinnston, W. Va. Wagon-brake lever.....	374,004	Nov. 29	2583	694	41	991
Ricard, Arthur P., Toledo, Ohio. Machine for riveting iron carriage-wheels.....	374,998	Dec. 20	1211	315 } 316 }	41	1298
Ricard, Arthur P., Toledo, Ohio. Vehicle-wheel.....	375,426	Dec. 27	1793	469	41	1419
Rice, Benjamin A., near Barboursville, Ky. Log-boom.....	368,239	Aug. 16	1317	347	40	716
Rice, Charles H., <i>et al.</i> (See Lanahan, Thomas, assignor.)						
Rice, Charles H. (See Lanahan and Roberts, assignors.)						
Rice, David H., Brookline, Mass. Velocipede.....	357,691	Feb. 15	1387	365	38	697
Rice, David H., Brookline, Mass. Store-service switch.....	361,374	Apr. 19	1416	366	39	279
Rice, David H., Brookline, Mass. Egg-beater.....	371,976	Oct. 25	1778	461	41	377
Rice, David H., Brookline, assignor to J. Ferguson, Bridgewater, Mass. Steam piston and valve packing.....	355,950	Jan. 11	938	245 } 246 }	38	190
Rice, David H., Brookline, Mass., assignor to Marlin Fire-Arms Company, New Haven, Conn. Revolving fire-arm.....	366,794	July 19	1436	384	40	287
Rice, E. Wilbur, Jr. (See Thomson and Rice.)						
Rice, E. Wilbur, Jr., Lynn, Mass. System of electrical distribution.....	372,330	Nov. 1	66	20	41	484
Rice, Edward H., Mendota, Ill. Bottle-stopper.....	361,547	Apr. 19	1639	425	39	323

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Rice, Edwin S., Greene, Ohio. Butter-worker.....	356,791	Feb. 1	68	19	38	436
Rice, Henry, Brooklyn, N. Y. Billiard-table leveler.....	372,566	Nov. 1	415	111	41	550
Rice, Henry G., <i>et al.</i> (See Barton, William H. H., assignor.)						
Rice, Jarealion L., Omaha, Nebr. Roofing-paint.....	364,544	June 7	490	.....	39	1180
Rice, John S., Cambridgeport, and J. Edson, Boston, Mass.; said Edson assignor to said Rice. Pen cleaner and holder.....	372,431	Nov. 1	220	61	41	511
Rice, Malcolm, Sebawa, Mich. Filter for cisterns.....	373,377	Nov. 15	1668	443	41	796
Rice, Martin F. B., Washington, D. C. Preparing medicated baths.....	360,173	Mar. 29	2664	{ 672 } 673	{ 38 } 39	1429
Rice, Nicholas J., Meadville, Pa. Combined punching and shearing machine.....	365,490	June 28	1879	489	39	1467
Rice, Ralsa C., Warren, Ohio. Telescopic sight for fire-arms.....	374,202	Dec. 6	50	13	41	1056
Rice, Revillo, Council Bluffs, Iowa. Truss.....	372,567	Nov. 1	416	112	41	550
Rice, Robert F., and A. M. Trude, Hartford, Conn. Automatic grain-scale.....	360,820	Apr. 5	596	{ 156 } 157	{ 39 } 39	112
Rice, Robert G., Georgetown, Tex. Screen.....	363,258	May 17	1677	439	39	803
Rice, Spencer M., Jr., <i>et al.</i> (See Gregory, James, assignor.)						
Rice, Sylvester W., <i>et al.</i> (See Cantrell, William B., assignor.)						
Rice, William, <i>et al.</i> (See Curry, John, assignor.)						
Rice, William A., and H. S. Cook, Randolph, Kans. Sulky-cultivator.....	371,709	Oct. 18	1387	358	41	290
Rich, William D., Philadelphia, Pa. Steam-boiler.....	361,083	Apr. 12	991	251	39	189
Rice, William F., Plumb Creek, Nebr. Double loop and buckle for harness-saddles.....	372,331	Nov. 1	69	21	41	484
Rice, William L., Columbus, Ohio. String-holder.....	371,977	Oct. 25	1779	461	41	377
Rich, Abraham L., Allegheny City, Pa. Bustle.....	371,628	Oct. 18	1258	327	41	264
Rich, Abraham L., Allegheny, Pa. Street-car motor.....	373,853	Nov. 29	2370	637	41	950
Richard, Charles D., Toddington, county of Gloucester, and C. E. Webber, South Eaton Place, county of Middlesex, England. Railway transfer-truck.....	372,643	Nov. 1	532	{ 145 } 146	{ 41 } 41	572
Richard, Howard S., Hatfield, Pa. Buffer-brake for railway-cars.....	369,814	Sept. 13	686	185	40	1173
Richard, John M., Newark, N. J. Flying toy.....	365,201	June 21	1445	381	39	1374
Richard, Joseph A., St. Louis, Mich. Car-coupling.....	356,601	Jan. 25	1863	490	38	379
Richard, Joseph A., St. Louis, Mich. Car-coupling.....	361,184	Apr. 12	1149	290	39	218
Richards, Calvin A., Boston, Mass., assignor to Johnson Steel Street Rail Company, Johnstown, Pa. Grooved girder-rail for street-cars.....	366,507	July 12	1023	279	40	203
Richards, Calvin A., and D. T. French, Boston, Mass. Animal-releasing device.....	374,321	Dec. 6	219	58	41	1087
Richards, Charles I., Providence, R. I. Button.....	369,076	Aug. 30	2510	665	40	964
Richards, Charles V., Skowhegan, assignor to himself and A. B. Merrill, Bangor, Me. Toggle-fastening for buttons, &c.....	373,309	Nov. 15	1556	412	41	775
Richards, Emery C., Union City, Pa. Crown-piece loop and clasp for bridles.....	366,610	July 12	1181	316	40	233
Richards Fastener Company. (See Kempshall, Eleazer, assignor.)						
Richards, Francis H., Springfield, Mass. Blank for and method of making button-fasteners.....	367,010	July 19	1712	461	40	340
Richards, Francis H., Springfield, Mass. Heel-plate.....	369,208	Aug. 30	2670	710	40	997
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-setting machine.....	369,260	Aug. 30	2737	729	40	1010
Richards, Francis H., Springfield, Mass., assignor to Hartford Heel Plate Company, Hartford, Conn. Machine for attaching heel-plates.....	369,554	Sept. 6	329	91	40	1097
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Blank-feeding mechanism.....	356,893	Feb. 1	213	60	38	460
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Banding envelopes.....	361,548	Apr. 19	1640	425	39	323
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Gum-box for envelope-machines.....	366,186	July 5	592	159	40	112
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Shearing mechanism.....	366,187	July 5	593	160	40	112
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Creasing and folding paper.....	366,188	July 5	594	160	40	112
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Adjusting cam-rollers.....	366,189	July 5	595	160	40	112
Richards, Francis H., Springfield, Mass., assignor, by mesne assignments, to White, Corbin & Company, Vernon, Conn. Band mechanism for envelope-machines.....	364,040	May 31	2808	{ 727 } 728 729	{ 39 } 39	1033
Richards, Francis H., Springfield, Mass., assignor, by mesne assignments, to White, Corbin & Company, Vernon, Conn. Envelope-machine.....	364,132	May 31	2938	{ 763 } 764	{ 39 } 39	1058
Richards, Francis H., Springfield, Mass., and E. Kempshall, New Britain, Conn. Sash-fastener.....	370,891	Oct. 4	219	55, 56	41	43
Richards, Frederick W., assignor to H. H. Curtis, North Attleborough, Mass. Button or stud.....	358,882	Mar. 8	659	172	38	1036
Richards, Frederick W., assignor to H. H. Curtis, Attleborough, Mass. Sleeve-button.....	362,315	May 3	341	94	39	540
Richards, Henry, Decker, Ind. Key-board attachment for musical instruments.....	364,041	May 31	2810	729	39	1034
Richards, Henry and W. J., Jr., Nevada City, Cal. Water-wheel bucket.....	361,719	Apr. 26	1905	494	39	379
Richards, J. Dudley. (See Egan, Patrick J., assignor.)						
Richards, John, San Francisco, Cal. Hydraulic ram.....	357,413	Feb. 8	960	253	38	609
Richards, John, San Francisco, Cal. Stop-valve.....	358,222	Feb. 22	2147	566	38	844
Richards, John, San Francisco, Cal. Centrifugal pump.....	359,096	Mar. 8	979	251	38	1091
Richards, John, San Francisco, Cal. Centrifugal pump.....	359,097	Mar. 8	982	251	38	1091
Richards, John, San Francisco, Cal. Connecting-rod.....	369,883	Sept. 13	802	214	40	1195
Richards, John H., <i>et al.</i> (See Richards, Philip, assignor.)						
Richards, Lucius J., Philadelphia, Pa. Coffee or tea pot and urn.....	374,270	Dec. 6	136	36	41	1073
Richards, Millard F. (See Savene, John W., assignor.)						
Richards, Millard F., Toledo, Ohio. Tag-holder.....	371,629	Oct. 18	1259	327	41	264
Richards, Philip, assignor of three-fourths to J. H. Richards, J. Rodger, and J. A. Hawk, Plymouth, Pa. Revolving coal-screen.....	361,185	Apr. 12	1150	290	39	218
Richards, Samuel A., Nova, Ohio. Wagon-frame.....	371,854	Oct. 18	1601	413	41	333
Richards, Theron A. (See Wing and Richards.)						
Richards, Thomas, assignor of one-half to L. Pritchard, Chicago, Ill. Saw-setting device.....	362,181	May 3	172	51	39	507
Richards, Thomas J., Pittsville, Pa. Self-acting drain for steam or water mains and pipes.....	369,032	Aug. 30	2441	648	40	951
Richards, Valentine W. A., Minneapolis, Minn. Shaft-carrier.....	374,203	Dec. 6	52	13	41	1056
Richards, William, Van Wert, Ohio. Sulky-harrow.....	362,784	May 10	1031	280	39	672
Richards, William H., Orleans, Iowa. Apparatus for use in dehorning cattle.....	371,477	Oct. 11	1044	272	41	212
Richards, William H., Knoxville, Tenn. Dental syringe.....	375,427	Dec. 27	1793	469	41	1419
Richards, William H., McKeesport, assignor to E. C. Converse, Allegheny City, Pa. Pipe-joint for gas-mains.....	371,787	Oct. 18	1495	386	41	312
Richards, William J., Jr. (See Richards, Henry and W. J., Jr.)						
Richardson, Arthur S., Reading, Mass. Wax-thread sewing-machine. (Reissue).....	10,873	Oct. 11	1127	293	41	229
Richardson, Benjamin P., Boston, Mass. Smoker's implement.....	366,611	July 12	1182	316	40	233

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Richardson & Boynton Company. (See McKinlay, James, assignor.)						
Richardson, Charles F., Athol, Mass. Surveyor's transit	368,308	Aug. 16	1413	373	40	736
Richardson, Christopher, Newark, N. J. Crosscut-saw handle	364,672	June 14	650	174	39	1219
Richardson, Clinton W., Bath, N. Y. Wagon-tire	364,545	June 7	490	132	39	1180
Richardson, Dwight S., Brooklyn, N. Y. Radiator or heating-drum	361,321	Apr. 19	1341	345	39	266
Richardson, Dwight S., Brooklyn, N. Y. Heating-drum	361,322	Apr. 19	1342	345	39	266
Richardson, Dwight S., Brooklyn, N. Y. Hot-air furnace	371,363	Oct. 11	885	227	41	181
Richardson, Frederick. (See Lewis, Russell H., assignor.)						
Richardson, George, New York, N. Y. Means for protecting the walls of buildings or other structures	373,946	Nov. 29	2503	672	41	975
Richardson, George W., et al. (See Snyder, Frederick H., assignor.)						
Richardson, Harry K. (See Dally and Richardson.)						
Richardson, Henry, Waltham, Mass. Machinery for grinding spherical balls	365,407	June 28	1759	456	39	1445
Richardson, Henry D. (See Bryant and Richardson.)						
Richardson, James, Tarrytown, N. Y. Adding-machine	364,297	June 7	126	36, 37	39	1113
Richardson, James G., Lake City, Minn. Shifting-thill	358,221	Feb. 22	2145	565	38	844
Richardson, James G., Lake City, Minn. Device for feeding stock	363,849	May 31	2533	658	39	981
Richardson, James S., Montague, Mass. Fabric for packing portable articles	362,229	May 3	236	68	39	519
Richardson, John, Ionia, Kans. Fence-post socket	364,042	May 31	2812	729	39	1034
Richardson, John D., Brooklyn, assignor to Commercial Patent Development Company, New York, N. Y. Desk for telephones	364,133	May 31	2940	764	39	1058
Richardson, John D., assignor to himself and F. L. Manchester, Brooklyn, N. Y. Dress-form	373,414	Nov. 15	1721	455	41	805
Richardson, John E., and J. A. Warren, Detroit, Mich. Upright piano	357,291	Feb. 8	800	208	38	579
Richardson, Julius C., Ilion, N. Y. Welding-furnace for heating blanks	363,171	May 17	1567	413	39	782
Richardson, Solon O., Jr. (See Locke and Richardson.)						
Richardson, Thomas M. (See St. Clair, Augustus A., assignor.)						
Richardson, Wade H., Milwaukee, Wis. Temperature-regulator	364,957	June 14	1088	283	39	1298
Richardson, William. (See Gilbert and Richardson.)						
Richardson, William A., et al. (See Caldwell, Homer M., assignor.)						
Richardson, William A. (See Harrington and Richardson.)						
Richardson, William E., Hartfield, county of Sussex, England. Receptacle for containing matches or similar articles	371,278	Oct. 11	770	{ 197 198 }	{ 41 }	159
Richardson, Willis S., assignor to Newark Watch Case Material Company, Newark, N. J. Pendant for watches	372,868	Nov. 8	886	237	41	643
Richart, Thomas F., Richfield, Pa. Fence-post	365,099	June 21	1307	346	39	1347
Riché, Charles S., Willet's Point, N. Y. Pantograph	364,043	May 31	9813	730	39	1034
Richert, Johan G., Gothenburg, Sweden. Device for cushioning the shock in water-pipes by automatic cocks	360,326	Mar. 29	5877	732	38	1470
Richey, Frank W., and S. M. Robbins, Raton, N. Mex. Ter. Seal-lock	369,884	Sept. 13	803	214	40	1195
Richmond, Bela P. (See Brown, James F., assignor.)						
Richmond City Mill Works. (See Mawhood, Jonathan D., assignor.)						
Richmond, Edward J., Chesapeake, Mo. Machine for filing saws	372,766	Nov. 8	710	196	41	613
Richmond, George, New York, N. Y. Cooling by the use of refrigerating liquids and apparatus therefor	356,210	Jan. 18	1308	346	38	265
Richmond, George S., Jr., East Haddam, Conn. Book-holder	359,180	Mar. 8	1083	282	38	1111
Richmond, Henry, East Newark, N. J. Combination device for shoe-makers	362,182	May 3	172	51	39	507
Richmond, Henry T., Malvern, Iowa. Bridle-bit	365,151	June 21	1383	365	39	1361
Richmond, Howard, Providence, R. I. Apparatus for dyeing, scouring, bleaching, and otherwise treating yarn in cops	372,767	Nov. 8	112	{ 196 197 }	{ 41 }	614
Richmond, Howard, Providence, R. I. Apparatus for dyeing, scouring, bleaching, and otherwise treating yarn in cops	372,768	Nov. 8	723	{ 197 198 }	{ 41 }	615
Richmond, James, and T. Birtwistle, Burnley, county of Lancaster, England. Furnace for treating town and other refuse	372,172	Oct. 25	2073	{ 531 532 }	{ 41 }	429
Richmond, William U., assignor of one-half to G. M. Hartwell, Waynesborough, Pa. Straw-stacker	370,494	Sept. 27	1720	456	40	1380
Richstine, John, Kansas City, Mo. Adjustable scaffold-support	371,279	Oct. 11	771	198	41	159
Richter, Friedrich. (See Schmidt, Carl M., assignor.)						
Richtmann, Charles, Newark, N. J. Weighing-scale	373,568	Nov. 22	1967	523	41	862
Rickards, John P. (See Fry, William W., assignor.)						
Rickart, E. O., et al. (See Crandall, Jason W., assignor.)						
Ricke, Henry, East Dubuque, Ill., and C. J. Bannigan, Jamestown, Wis. Harrow	367,665	Aug. 2	462	127	40	539
Rickenbacher, Paul P. (See Johnson and Rickenbacher.)						
Ricketson, Arthur, New Bedford, Mass. Metallic shingle	356,161	Jan. 18	1248	330	38	254
Ricketson, James C., Milwaukee, Wis. Electric signal for engines	356,792	Feb. 1	70	19	38	436
Ricketson, James C., Milwaukee, Wis. Signal for engines	374,322	Dec. 6	220	58	41	1087
Ricketts, James J., Pittsburg, Pa. Flushing-tank	356,894	Feb. 1	216	60	38	461
Rickman, Robert L., Graham, Tex. Calf-weaner	365,538	June 28	1958	509	39	1485
Rickman, Robert L., Graham, Tex. Calf-weaner	374,005	Nov. 29	2584	694	41	991
Ridd, William. (See Heron, Christopher, assignor.)						
Ridding, William H., Brooklyn, assignor to T. H. McAllister, New York, N. Y. Magic lantern	373,607	Nov. 22	2021	{ 536 537 }	{ 41 }	874
Riddle, James C., Petersburg, Va. Fence-machine	374,497	Dec. 6	467	121	41	1135
Riddle, James W., Pittsburg, Pa. Folding umbrella	363,850	May 31	2535	659	39	982
Ridenour, John, Mount Vernon, Ind. Child's combined rocking-chair and cradle	365,862	July 5	147	39	40	30
Rider, Ebenezer W., Racine, Wis. Feed-cutter	369,209	Aug. 30	2670	710	40	998
Rider, Thomas J., assignor of one-half to C. H. De Lamater, G. H. Robinson, and W. De Lamater, New York, N. Y. Air-chamber for pumps, &c.	361,649	Apr. 19	1803	468	39	353
Ridgill, Angus G., Eddy, Tex. Knee pad and protector	363,170	May 17	1565	413	39	782
Ridgway, Charles L., Clinton, assignor to Ridgway Furnace and Stove Company, Boston, Mass. Automatic damper-regulator for furnaces, stoves, &c.	363,346	May 17	1798	{ 471 472 }	{ 39 }	826
Ridgway, Charles L., Everett, Mass., assignor to Ridgway Furnace and Stove Company, Nashua, N. H. Damper for furnace and other regulators	367,847	Aug. 9	747	201	40	602
Ridgway Furnace and Stove Company. (See Ridgway, Charles L., assignor.)						
Ridgway, William H., Coatesville, Pa. Crane	374,756	Dec. 13	835	219	41	1219
Ridley, Albert E., et al. (See Williams and Judson, assignors.)						
Ridley, Arthur J., et al. (See Williams and Judson, assignors.)						
Ridley, James M., Fiskburg, assignor of three-fourths to T. W. and R. A. Powers, W. J. Stephens, Independence, and A. Orr, Portland, Ky. Machine for making wheels	357,630	Feb. 15	1289	339	38	680
Rieder, Cyrus A., Anthony, Kans. Blank-depository	363,083	May 17	1440	381	39	757
Riehle, Frederick A., et al. (See Buzby, C. Ernest, assignor.)						
Riehle, Henry B., et al. (See Buzby, C. Ernest, assignor.)						
Riehlé, Henry B., and M. F. Hatcher, Philadelphia, Pa.; said Hatcher assignor to said Riehlé. Marble-molding machine	362,999	May 17	1332	352	39	734

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Riepen, H. Henry, assignor of one-half to J. Katzenstein, L. and G. A. Kaiser, Bushnell, Ill. Automatic grain-scale.....	363,766	May 24	2412	625	39	952
Ries, Elias E., Baltimore, Md., assignor to E. O. Punchard, Boston, Mass. Circuit-closing apparatus for electric brakes and other devices.....	356,963	Feb. 1	303	84	38	478
Ries, Elias E., Baltimore, Md., assignor to E. O. Punchard, Boston, Mass. Operating electric brakes.....	356,964	Feb. 1	308	84	38	479
Ries, Elias E., assignor of one-half to A. H. Henderson, Baltimore, Md. Electric welding and tempering metals.....	370,282	Sept. 20	1388	373	40	1311
Ries, Elias E., assignor of one-half to A. H. Henderson, Baltimore, Md. Underground conduit for electric and other railways.....	370,283	Sept. 20	1392	374	40	1312
Rieseck, Peter, Allegheny, Pa. Construction of stairways.....	362,537	May 10	655	185	39	604
Rife, William A., Waynesborough, Va. Hydraulic ram or engine.....	357,414	Feb. 8	962	{ 253 254 }	{ 38 }	609
Rigby Car Wheel Company. (See Rigby, James, assignor.)						
Rigby, Clark F., Foxburg, Pa. Fruit, vegetable, and bread cutter.....	372,173	Oct. 25	2075	532	41	429
Rigby, Clark F., assignor of three-eighths to L. W. Raison, W. A. Stofer, and J. M. Harper, Foxburg, Pa. Steam-valve.....	366,028	July 5	387	104	40	73
Rigby, James, Galveston, Tex. Swing.....	362,785	May 10	1032	281	39	672
Rigby, James, Montreal, Quebec, Canada. Gas expander and burner.....	365,633	June 28	2098	{ 546 547 }	{ 39 }	1510
Rigby, James, Minneapolis, Minn. Treating iron.....	360,620	Apr. 5	331	81	39	63
Rigby, James, Minneapolis, Minn. Gas-expander and shade-holder.....	365,539	June 28	1958	510	39	1485
Rigby, James, Minneapolis, assignor to Rigby Car Wheel Company, St. Paul, Minn. Securing tires to wheels.....	362,111	May 3	86	26	39	490
Rigby, James, Minneapolis, assignor to Rigby Car Wheel Company, St. Paul, Minn. Die for forging car-wheels.....	362,112	May 3	87	26	39	490
Rigby, James, Minneapolis, assignor to Rigby Car Wheel Company, St. Paul, Minn. Making car-wheels.....	362,113	May 3	88	27	39	490
Rigg, Arthur, London, England. Engine.....	368,424	Aug. 16	1569	419	40	767
Rigg, James W., Mount Carmel, Ill. Device for closing gates.....	366,878	July 19	1550	415	40	310
Riggs, E. Francis, <i>et al.</i> (See Evans, W. Warrington, assignor.)						
Riggs, Ethan A., New Orleans, La., and F. Gleason, Philadelphia, Pa.; said Gleason assignor to said Riggs. Stave-machine.....	374,630	Dec. 13	664	174	41	1184
Riggs, George S., Micanopy, Fla. Apparatus for assorting oranges.....	363,084	May 17	1441	{ 381 382 }	{ 39 }	757
Riggs, Miles, New York, N. Y. Eyeglass-holder.....	366,345	July 12	815	219	40	161
Riggs, T. Lawrason, <i>et al.</i> (See Evans, W. Warrington, assignor.)						
Righter, J. Charles. (See Johnson, Richard G., assignor.)						
Rightmyer, Frank, <i>et al.</i> (See Adelsperger, Charles C., assignor.)						
Rightmyer, Frank. (See Connel, James M., assignor.)						
Rigney, William J., Rochester, N. Y. Register for fares.....	362,538	May 10	656	{ 185 186 }	{ 39 }	605
Rigney, William J., Rochester, N. Y. Fare-register.....	367,930	Aug. 9	864	{ 235 236 }	{ 40 }	624
Riker, Charles B. (See Houchin, Riker, and Houchin.)						
Riley, Bernard J., North Walpole, N. H. Expansion-pulley.....	370,087	Sept. 20	1117	296	40	1260
Riley, Deroy, Coventryville, N. Y. Shingle-sawing machine.....	355,473	Jan. 4	236	62	38	48
Riley, George N., Braddock, Pa. Tube-coupling.....	374,557	Dec. 6	563	148	41	1155
Riley, George N., Braddock, assignor to E. C. Converse, Allegheny City, Pa. Joint for gas-mains.....	372,568	Nov. 1	417	112	41	550
Riley, James, Glasgow, county of Lanark, Scotland. Combined sleeper and chair for railways.....	362,786	May 10	1033	281	39	672
Riley, James, Glasgow, county of Lanark, Scotland. Combined sleeper and chair for railways.....	362,787	May 10	1034	281	39	672
Riley, John, Council Grove, Kans. Potato-planter.....	374,757	Dec. 13	838	{ 219 220 }	{ 41 }	1219
Riley, John B., Toronto, Ontario, Canada. Knife polisher and cleaner.....	360,174	Mar. 29	2668	673	38	1430
Riley, John M., Newark, N. J. Knob or pendant.....	366,612	July 12	1183	317	49	233
Riley, Joseph B., and H. Radley, Pittsburg, Kans. Tongue-support.....	355,339	Jan. 4	68	18	38	14
Riley, Michael, London, Ohio. Bell-rope.....	369,738	Sept. 13	582	158	40	1154
Riley, Philip, Marion, Iowa. Car-coupling.....	367,549	Aug. 2	281	79	40	504
Rinaldi, Leonida, New York, N. Y. Elevated-railway gate.....	368,783	Aug. 23	2084	552	40	873
Rinderknecht, Charles J., Indianapolis, Ind. Saw-mill set-works.....	370,413	Sept. 27	1589	{ 424 425 }	{ 40 }	1357
Rindskopf, Abraham P., assignor to himself and H. P. Rindskopf, Brooklyn, N. Y. Garment-supporter.....	357,155	Feb. 1	613	158	38	534
Rindskopf, Henry P. (See Rindskopf, Abraham P., assignor.)						
Ring, Charles E., Saginaw, Mich. Feed-motion.....	357,415	Feb. 8	964	254	38	610
Ringin, John, St. Louis, Mo. Oven for vapor-stoves.....	360,727	Apr. 5	473	120	39	88
Ringin, John, St. Louis, Mo. Oven for vapor-stoves.....	360,728	Apr. 5	474	120	39	88
Ringin, John, St. Louis, Mo. Coal-hod.....	369,962	Sept. 13	923	245	40	1217
Ringin, John, St. Louis, Mo. Gasoline-oven.....	371,478	Oct. 11	1045	272	41	212
Ringer, Joseph G., assignor of two-thirds to R. R. Young & Co., Greensburg, Pa. Truck.....	365,942	July 5	267	70	40	51
Ringrose, Jesse W., and D. A. Hauck, Mechanicsburg, Pa.; said Hauck assignor to said Ringrose. Punching-machine for fly-nets.....	356,793	Feb. 1	71	20, 21	38	436
Rink, Richard, Brewster, and M. E. Sanford, New York, N. Y. Drawing-easel.....	365,634	June 28	2099	547	39	1510
Riordan, Dennis W., Chicago, Ill. Refrigerator-car.....	363,543	May 24	2091	{ 541 542 }	{ 39 }	891
Riordan, Patrick A., Gardner, Mass. Automatic attachment for cistern-closet valves.....	357,033	Feb. 1	412	110	38	498
Ripley, Daniel C., Pittsburg, Pa. Manufacture of glassware.....	364,298	June 7	129	37	39	1113
Ripley, Royal H., Minneapolis, Minn. Stock-car.....	366,738	July 19	1363	365	40	275
Ripon Wire Door and Window Screen Company. (See Lampson and Hogben, assignors.)						
Rippe, Charles, assignor to J. A. W. Pine, Cincinnati, Ohio. Bolting device for pneumatic cabinets, &c.....	368,784	Aug. 23	2085	552	40	873
Rippen, Adolph, Reading, Pa. Tool-holder.....	366,508	July 12	1025	279	40	203
Rippen, Adolph, assignor to Reading Hardware Company, Reading, Pa. Sash-fastener.....	368,240	Aug. 16	1318	347	40	717
Rippen, Adolph, assignor to Reading Hardware Company, Reading, Pa. Sash-fastener.....	370,560	Sept. 27	1813	482	40	1397
Ripson, John D., assignor of one-half to R. Watson, Toronto, Ontario, Canada. Car-coupling.....	356,663	Jan. 25	1956	513	38	396
Rischmuller, George, San Francisco, Cal. Cable-railway grip.....	371,364	Oct. 11	887	228	41	181
Risdon, James A., Genoa, Ill. Carpet-stretcher.....	362,114	May 3	89	27	39	490
Risdon, William B., assignor to American Saw Company, Trenton, N. J. Wrench.....	362,661	May 10	847	232	39	638
Rishel, John C. F. and L. K., Danville, Pa. Railway-torpedo placer.....	366,029	July 5	388	104	40	73
Rishel, Leander K. (See Rishel, John C. F. and L. K.)						
Ristvedt, Anton H., Milan, Minn. Sod-pulverizer.....	366,879	July 19	1551	{ 415 416 }	{ 40 }	310

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Ritty, Sebastian. (See Bell and Ritty.)						
Ritchel, Charles F., Bridgeport, Conn., assignor to himself and J. S. Baker, New York, N. Y.						
Wave-edge matching-machine	373,536	Nov. 22	1923	510	41	855
Ritchey, A. L. (See Wolfe, Jacob W., assignor.)						
Ritchey, William W., Archie, Mo. Churn	361,186	Apr. 12	1151	290	39	218
Ritchie, Edward S., Newton, Mass. Lubricator	358,943	Mar. 8	782	196	38	1053
Ritchie, John, Brookline, Mass. Induction-coil	363,851	May 31	2536	659	39	982
Ritchie, Matthew L., New York, N. Y. Rolls for reducing and tapering tubes and rods	374,703	Dec. 13	763	200	41	1205
Ritchie, Peter C., Tremont, N. Y. School-slate	360,327	Mar. 29	2879	733	38	1470
Ritchie, Walter J., Lima, Ohio. Leveling-rod	375,197	Dec. 20	1490	390	41	1352
Rites, Francis M., Pittsburg, Pa. Steam-engine governor	355,717	Jan. 11	582	152	38	124
Rites, Francis M., Pittsburg, Pa. Valve mechanism for compound engines	356,376	Jan. 18	1543	406	38	310
Rites, Francis M., Pittsburg, Pa. Steam-engine valve-gear	363,968	May 31	2714	703	39	1014
Rittenhouse, Hawley O., Flemington, N. J. Navigator's position-indicator	356,503	Jan. 25	1728	{ 451 452 }	{ 38 }	353
Ritter, Andrew, Jr., Chicago, Ill. Furnace	374,999	Dec. 20	1213	{ 316 317 }	{ 41 }	1298
Ritter, Andrew J., Rahway, N. J. Inclined-plane pendulum-power	370,820	Oct. 4	93	25	41	20
Ritter, Frederick W., Jr., administrator. (See Vicars, Thomas, Sr., J., Sr., T., Jr., and J., Jr.)						
Ritz, John A., Franklin, Ohio. Belt-hook	364,673	June 14	651	174	39	1219
Ritzler, Charles E. (See Hauser and Ritzler, assignors.)						
Ritzler, Joseph A. (See Hauser and Ritzler.)						
River and Rail Electric Light Company. (See Main, William, assignor.)						
River and Rail Electric Light Company. (See Meserole, Abraham V., assignor.)						
Rivers, Phillip J., Bridgeport, Conn. Leaf-holder	358,072	Feb. 22	1932	509	38	804
Rivers, Thomas L., assignor of one-half to E. W. Goble, Newark, N. J. Trunk-fastener	356,051	Jan. 11	1077	283	38	217
Rivett, Edward, Boston, Mass. Watch-maker's lathe	363,000	May 17	1333	{ 352 353 }	{ 39 }	735
Rivière, Louis, Paris, France. Process of and apparatus for saponifying and decomposing fatty bodies	362,856	May 10	1118	301	39	688
Rix, Alfred, San Francisco, Cal. Ball-caster	372,387	Nov. 1	156	45	41	499
Rix, Benjamin F., Kalamazoo, Mich. Grain or fertilizer distributor	361,781	Apr. 26	1997	519	39	395
Rix, Benjamin F., Kalamazoo, Mich. Two-wheeled vehicle	364,730	June 14	731	195	39	1235
Rix, Benjamin F., assignor to R. A. Stone, Kalamazoo, Mich. Two-wheeled vehicle	357,156	Feb. 1	614	158	38	534
Rix, Benjamin F., assignor to R. A. Stone, Kalamazoo, Mich. Two-wheeled vehicle	358,752	Mar. 1	486	118	38	994
Rix, Benjamin F., assignor to R. A. Stone, Kalamazoo, Mich. Machine for forming vehicle-seat bars	366,880	July 19	1553	416	40	310
Rix, Wilton P. (See Doulton and Rix.)						
Roach, Charles H., Baltimore, Md. Machine for making glass pots	367,729	Aug. 2	576	{ 156 157 }	{ 40 }	559
Roach, James M. (See Wickham and Roach.)						
Roach, Robert. (See Wright and Roach.)						
Roan, William H., Williamsburg, Ky. Lumber-boom gap	371,788	Oct. 18	1497	386	41	312
Roark, James S., assignor of one-half to M. L. Cormany, Augusta, Ga. Seal-lock	370,414	Sept. 27	1591	425	40	1357
Robards, Edward, Stilesville, Ind. Fence-post	367,848	Aug. 9	748	201	40	602
Robb, James T. (See Bunnell, Joseph A., assignor.)						
Robb, James T., New York, N. Y. Gas and electric lamp fixture	361,782	Apr. 26	1998	519	39	395
Robb, John, Akron, Ohio. Sectional boiler	364,958	June 14	1090	283	39	1299
Robb, Lucian B., Cincinnati, Ohio. Dry closet	365,202	June 21	1446	381	39	1374
Robb, Lucian B., Cincinnati, Ohio. Commode	372,237	Oct. 25	2177	559	41	449
Robberson, John W., Red River Station, Tex. Railway-switch	367,765	Aug. 2	621	{ 167 168 }	{ 40 }	568
Robbin, Fred, assignor of one-half to P. H. Yawman and G. Erbe, Rochester, N. Y. Sled-propeller	374,428	Dec. 6	365	96	41	1116
Robbins, Ambrose. (See Delassus and Robbins.)						
Robbins, George B., and H. W. Bell, New York, N. Y. Tile for coping	374,705	Dec. 13	765	201	41	1206
Robbins, Henry R., Baltimore, Md. Steam-heater for railway-cars	364,134	May 31	2941	764	39	1058
Robbins, Hiram, Little Rock, Ark. Cotton-planter	367,766	Aug. 2	627	168	40	569
Robbins, Ira, assignor to F. P. Sher, Camden, N. J. Apparatus for dividing medicinal or other powders	370,351	Sept. 20	1488	399	40	1331
Robbins, Joseph T., Newton, Iowa. Burning coal, &c., in stoves and furnaces	366,255	July 12	698	189	40	139
Robbins, Prosper S. (See Fisher and Robbins.)						
Robbins, Sumner M. (See Richey and Robbins.)						
Roberge, George E. (See Roberge, Joseph P., assignor.)						
Roberge, Joseph P., Wickham, Quebec, Canada, assignor of one-half to G. E. Roberge, Howard, R. I. Curd-mill	369,555	Sept. 6	331	91	40	1097
Roberge, Joseph P., and L. P. Timmons, Wickham West, Quebec, Canada. Railway-station indicator	362,662	May 10	848	232	39	638
Robert, Henry M. (See D'Aura, Luigi, assignor.)						
Roberts, Abner L., et al. (See Woodward, William D., assignor.)						
Roberts, Almeron, Hanover, Me. Snow-plow	358,624	Mar. 1	307	73	38	960
Roberts, Benjamin, Indianapolis, Ind. Smoke-condenser	360,052	Mar. 29	2459	626	38	1392
Roberts, Benjamin, Indianapolis, Ind. Smoke-condenser	371,365	Oct. 11	890	229	41	182
Roberts, Charles E., Chicago, Ill. Machine for milling nuts	355,718	Jan. 11	583	{ 152 153 }	{ 38 }	124
Roberts, Charles E., Chicago, Ill. Leather-scrap-splitting machine	358,883	Mar. 8	696	173	38	1036
Roberts, Charles E., Chicago, Ill. Machine for shearing metal bars	358,884	Mar. 8	702	174	38	1038
Roberts, Charles E., Chicago, Ill. Bolt-threading machine	369,963	Sept. 13	923	245	40	1217
Roberts, Charles E., Chicago, Ill. Machine for splitting leather scrap	372,640	Nov. 1	525	144	41	570
Roberts, Charles E., Chicago, Ill. Machine for splitting scraps of leather	373,196	Nov. 15	1388	{ 367 368 369 }	{ 41 }	744
Roberts, Charles H., et al. (See Kehr, Cyrus, assignor.)						
Roberts, Charles H., Washington, Ind. Traction-wheel	357,034	Feb. 1	413	110	38	498
Roberts, Charles H., Washington, Ind. Traction-wheel	357,035	Feb. 1	414	110	38	498
Roberts, Charles H., Washington, Ind. Traction-engine	357,036	Feb. 1	415	{ 110 111 }	{ 38 }	499
Roberts, Daniel F. (See Smith and McArthur, assignors.)						
Roberts, Dugald H., assignor of one-half to W. D. McRae, Wallaceburg, Ontario, Canada. Gage-cock	368,899	Aug. 23	2244	597	40	905
Roberts, Edward E., Red Bank, N. J. Steam-generator	371,710	Oct. 18	1388	358	41	291
Roberts, Edward H., Cub Hill, Md. Remedy for hog-cholera	360,363	Mar. 29	2936		38	1479

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Roberts, Edward M. (See Thomas and Roberts.)						
Roberts, Frank H., and A. C. Luyckx; said Roberts assignor to said A. C. and W. J. Luyckx, Detroit, Mich. Ink-well for school-desks.	372,388	Nov. 1	157	45	41	499
Roberts, Frederick C., assignor of one-half to D. P. Van Court, Mohawk, N. Y. Elevator safety-stop.	360,483	Apr. 5	126	30	39	24
Roberts, Frederick C., assignor of one-half to D. P. Van Court, Mohawk, N. Y. Steam-engine.	364,374	June 7	228	64	39	1132
Roberts, George W., <i>et al.</i> (See Lanahan, Thomas, assignor.)						
Roberts, George W. (See Lanahan and Roberts.)						
Roberts, George W., Walla Walla, Wash. Ter. Nut-lock.	368,785	Aug. 23	2086	553	40	873
Roberts, Henry. (See Pease, Robert R., assignor.)						
Roberts, Henry, assignor of one-half to G. T. Oliver, Pittsburg, Pa. Reheating iron and steel.	374,558	Dec. 6	565	148	41	1155
Roberts, Henry P., assignor to R. P. and A. P. Shearman, Jamestown, N. Y. Rocking-chair.	360,729	Apr. 5	474	121	39	89
Roberts, Jacob G., Tecumseh, Mich. Snow-plow.	364,135	May 31	2942	764	39	1059
Roberts, James, New York, N. Y. Apparatus for the manufacture of heating and illuminating gas.	372,238	Oct. 25	2179	559 560	41	449
Roberts, James, assignor to Acme Liquid Fuel Company, New York, N. Y. Apparatus for manufacturing heating and illuminating gas.	371,978	Oct. 25	1781	461	41	377
Roberts, John, Sr., Hallsville, Mo. Gate.	359,693	Mar. 22	1873	476	38	1280
Roberts, John P., Somerset, Kans. Fence-post.	364,674	June 14	652	175	39	1219
Roberts, John W., Clarinda, Iowa. Washing-machine.	359,519	Mar. 15	1592	408	38	1211
Roberts, Joseph, Wyandotte, Kans. Switch-stand attachment.	363,001	May 17	1335	353	39	735
Roberts, Lorenzo D. (See Tolman, Gayger D., assignor.)						
Roberts, Milton J., New York, N. Y. Corset.	368,241	Aug. 16	1320	347 348	40	717
Roberts, Milton O., Collegeville, Pa. Horse-power.	355,719	Jan. 11	586	153	38	125
Roberts, Nathan H., Indianapolis, Ind. Brazing-machine.	369,077	Aug. 30	2511	666	40	964
Roberts, Richard A., Pittsburg, Pa. Air-moistener.	364,136	May 31	2943	765	39	1059
Roberts, Robert J., assignor to R. J. Miller, Boston, Mass. Walking-track for gymnasiums.	358,483	Mar. 1	90	22	38	920
Roberts & Son. (See Woodham and Ockenden, assignors.)						
Roberts, Sylvanus, Chester, N. Y. Can-washer.	371,366	Oct. 11	891	229	41	182
Roberts, Walter, assignor to W. Roberts, Canton, and C. A. Shaw, Boston, Mass. Knitting-machine.	357,631	Feb. 15	1291	339 340 341 342	38	681
Roberts, Walter, assignor to W. Roberts, Canton, and C. A. Shaw, Boston, Mass. Straight-knitting machine.	357,632	Feb. 15	1303	342 343	38	682
Roberts, Webster, Cleveland, assignor to Crume & Sefton Manufacturing Co., Dayton, Ohio. Tray-machine.	369,078	Aug. 30	2512	666 667	40	965
Roberts, Webster M., Gaylord, Kans. Cultivator.	358,073	Feb. 22	1932	509 510	38	805
Roberts, Wesley E., Hartford, Ky. Car-coupling.	357,504	Feb. 8	1092	288	38	634
Roberts, Wesley E., Hartford, Ky. Shutter for photographic cameras.	362,663	May 10	849	232	39	638
Roberts, William. (See Bastet, Louis, assignor.)						
Roberts, William, <i>et al.</i> (See Roberts, Walter, assignor.)						
Roberts, William H., Indianapolis, Ind. Portable fire-escape.	363,913	May 31	2615	679	39	996
Robertshaw, Frederick W., Pittsburg, Pa. Valve.	372,641	Nov. 1	529	145	41	571
Robertson, Alexander, Dow City, Iowa. Cultivator.	356,504	Jan. 25	1729	452	38	353
Robertson, Alexander W. (See Jones and Marshall, assignors.)						
Robertson, Alexander W., Denton, Tex. Horseshoe.	371,789	Oct. 18	1499	386	41	313
Robertson, Charles E. (See Boorn, George H., assignor.)						
Robertson, Charles E., Montreal, Quebec, Canada. Steam-engine.	357,231	Feb. 8	720	186	38	563
Robertson, Charles W., Fond du Lac, Wis. Hay-fork.	357,037	Feb. 1	417	111	38	499
Robertson, Henry C., Charleston, S. C. Combined stool and sewing-machine cover.	368,008	Aug. 9	985	264	40	647
Robertson, James H., Rutherford, N. J. Autographic telegraph.	357,038	Feb. 1	418	111	38	499
Robertson, James H., Rutherford, N. J. Autographic telegraph.	357,039	Feb. 1	419	112	38	499
Robertson, John E. (See Locke, Willie F., assignor.)						
Robertson, John H., New York, N. Y. Cable-lifter for cable railways.	372,930	Nov. 8	973	264	41	659
Robertson, Richard A., Jr., Providence, R. I. Pattern for pipe-joints.	365,943	July 5	268	70	40	52
Robertson, Robert S., assignor of one-half to P. W. Wright, Toronto, Ontario, Canada. Combined lock and latch.	356,013	Jan. 11	1024	269	38	207
Robertson, Sidney B., Bentonville, Ark. Device for keeping and showing abstracts of titles.	371,979	Oct. 25	1782	462	41	377
Robertson, Thomas, Toronto, Ontario, Canada. Lozenge-machine.	363,681	May 24	2287	593 594	39	929
Robeson, Charity, Philadelphia, Pa. Process of and apparatus for cleaning and scouring wool.	372,987	Nov. 8	1057	283	41	674
Robin, Charles, Chester, Conn. Hook.	373,096	Nov. 15	1227	328	41	716
Robin, Theodore, and J. A. Mailloux, Boston, Mass. Music-box.	364,959	June 14	1091	284	39	1299
Robinson, Abe, Brooklyn, N. Y. Clock-winding mechanism.	361,837	Apr. 26	2075	540	39	410
Robinson, Abe, Brooklyn, N. Y. Clock-winding mechanism.	366,429	July 12	912	247 248	40	181
Robinson, Albert, Grand Rapids, Mich. Dental plate.	368,492	Aug. 16	1678	447	40	787
Robinson, Alver, <i>et al.</i> (See Harding, John, Jr., assignor.)						
Robinson, Arthur E., St. Paul, Minn. Scrubber.	358,625	Mar. 1	309	74	38	961
Robinson, Arthur E., St. Paul, Minn., assignor of one-half to L. L. Morrison, Chicago, Ill. Device for attaching splasher-mats to wash-stands.	358,626	Mar. 1	309	74	38	961
Robinson, Aurie V., Fort Ann, N. Y. Catamenial sack.	366,256	July 12	699	190	40	140
Robinson, Clark, Hartley, Iowa. Writing-tablet.	368,972	Aug. 30	2357	626	40	935
Robinson, David F. (See Craig, Warren H., assignor.)						
Robinson, Edgar. (See Varney, Joseph T., assignor.)						
Robinson, Edgar, assignor of one-half to Wood & Boyd, Cincinnati, Ohio. Car-wheel.	355,664	Jan. 4	501	133	38	98
Robinson, Edward W., Portland, Me. Head-rest.	374,704	Dec. 13	764	200	41	1205
Robinson, Eustis P. M., Round Rock, Tex. Seeder or grain-planter.	375,198	Dec. 20	1492	391	41	1352
Robinson, Frank E. (See Simmons, Oliver M., assignor.)						
Robinson, Frederick W., assignor to L. L. Robinson, San Francisco, Cal. Hydraulic concentrator.	371,711	Oct. 18	1391	358	41	291
Robinson, George H., <i>et al.</i> (See Raynal, Alfred H., assignor.)						
Robinson, George H., <i>et al.</i> (See Rider, Thomas J., assignor.)						
Robinson, Henry A., Foxcroft, Me. Postal packet.	374,204	Dec. 6	52	13	41	1057
Robinson, James, <i>et al.</i> (See Gilchrist, John B., assignor.)						
Robinson, James C., London, England. Hansom-cab.	370,352	Sept. 20	1489	399	40	1331

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Robinson, James K. (See Worley, Robinson, and Hillis.)						
Robinson, James P. (See Kidd, Lewis C., assignor.)						
Robinson, James S., Jamestown, N. Y. Treadle attachment.....	362,539	May 10	662	186	39	605
Robinson, John. (See Marvil and Robinson.)						
Robinson, John, Coal Valley, W. Va. Dinner-pail.....	356,852	Feb. 1	155	41	38	451
Robinson, John D., Taunton, Mass. Wire-nail machine.....	358,408	Feb. 22	2395	{ 637 638 }	{ 38 38 }	891
Robinson, John H., Calvert, Tex. Combined cotton-chopper, harrow, and cultivator.....	371,790	Oct. 18	1500	387	41	313
Robinson, John W., Plymouth, Ohio. Cultivator.....	359,285	Mar. 15	1238	322	38	1146
Robinson, L. L. (See Robinson, Frederick W., assignor.)						
Robinson, Lloyd D. (See Jarvis, William D. F., assignor.)						
Robinson, Martin W. (See Crawford, Poland, and Robinson.)						
Robinson, Matthew H., et al. (See Hamilton, Benjamin F., assignor.)						
Robinson, O. E. (See Hopkins, Cabel B., assignor.)						
Robinson-Rea Manufacturing Company. (See Bailey, Reade W., assignor.)						
Robinson, Samuel, West Bromwich, county of Stafford, England. Engine.....	363,085	May 17	1443	{ 382 383 }	{ 39 39 }	757
Robinson, Sylvanus E., Newark, N. J. Food-cooker.....	359,229	Mar. 8	1161	301	38	1124
Robinson, Walter H., Fargo, Dak. Ter. Suspension harness-rack.....	366,030	July 5	389	105	40	73
Robinson, Ward E., assignor to E. McNeil, New York, N. Y. Musical top.....	362,463	May 3	554	{ 153 154 }	{ 39 39 }	581
Robinson, William, Boston, Mass. Railway-car.....	355,720	Jan. 11	588	{ 153 154 }	{ 38 38 }	125
Robinson, William B., Brampton, county of Derby, assignor to Southall Bros. & Barclay, Birmingham, England. Catamenial bandage.....	370,415	Sept. 27	1592	425	40	1357
Robinson, William W. (See Chaffin, James, assignor.)						
Roche, William E., Peabody, Mass. Safety water-gage.....	356,965	Feb. 1	311	84	38	480
Rocheleau, John C., Worcester, Mass. Jewelers' rolls for enlarging rings.....	361,084	Apr. 12	992	251	39	189
Rochester Machine Tool Works. (See Bryant, Edwin R., assignor.)						
Rochester Machine Tool Works. (See Davison, George W., assignor.)						
Rochester Shoe Machinery Company. (See Hatfield, Charles B., assignor.)						
Rochester Shoe Machinery Company. (See Hatfield and Sorge, assignors.)						
Rochester Tumbler Company. (See Fry, George W., assignor.)						
Rochford, John W., Wellesley, Mass. Miter-box.....	367,849	Aug. 9	749	201	40	602
Rochow, Ferdinand, Brooklyn, N. Y. Device for securing pulleys to shafts.....	361,323	Apr. 19	1343	346	39	266
Rock, John C., West Liberty, Ohio. Automatic gate.....	359,404	Mar. 15	1412	362	38	1178
Rocker Spring Company. (See Bunker, William I., assignor.)						
Rocker Spring Company. (See Stevens, Asher B., assignor.)						
Rockford Silver Plate Company. (See Kelley, George B., assignor.)						
Rockford Silver Plate Company. (See Witherell, Henry A., assignor.)						
Rockford Watch Company. (See Troller, Albert, assignor.)						
Rockhill, Clayton. (See Chester, Stephen M., assignor.)						
Rockhill, Cyreneus. (See Gatewood, William F., assignor.)						
Rockwell, Edward D., Jacksonville, Fla. Sash-fastener.....	358,409	Feb. 22	2397	638	38	891
Rockwell, Rollin D., et al. (See Root, Judson E., assignor.)						
Rockwood, Samuel C., Atchison, Kans. Swinging gate.....	359,633	Mar. 22	1787	455	38	1263
Rodden, William H., Toronto, Ontario, Canada. Mucilage or liquid-glue bottle.....	362,857	May 10	1119	302	39	688
Rodegard, Andrew, New Richland, Minn. Permutation-padlock.....	373,155	Nov. 15	1326	351	41	733
Rodemer, Charles H., Topeka, Kans. Girder or arch.....	374,271	Dec. 6	137	36	41	1073
Rodenberger, John, Hallowell, Kans. Grain-drill.....	365,408	June 28	1761	457	39	1445
Rodger, Joseph, et al. (See Richards, Philip, assignor.)						
Rodger, Thomas, assignor of two-thirds to T. Black and R. Crawford, Dunedin, New Zealand. Plow for spreading and trimming ballast on railways.....	373,907	Nov. 29	2449	658	41	964
Rodger, Thomas, assignor of two-thirds to T. Black and R. Crawford, Dunedin, New Zealand. Dumping-car.....	374,006	Nov. 29	2584	{ 694 695 }	{ 41 41 }	992
Rodgers, George B. (See Rodgers, William R., J. T., and G. B.)						
Rodgers, George W., Bellefonte, Pa. Try-gage for steam-boilers.....	355,886	Jan. 11	838	220	38	170
Rodgers, James T. (See Rodgers, William R., J. T., and G. B.)						
Rodgers, John, Pittsburg, Pa. Nut-lock.....	358,000	Feb. 15	1824	479	38	779
Rodgers, John, Pittsburg, Pa. Sash-cord fastener.....	373,485	Nov. 22	1832	488	41	839
Rodgers, Nathaniel R., Red Fork, Ark. Cotton-planter.....	372,488	Nov. 1	296	81	41	527
Rodgers, Willard D. S., et al. (See Collins, Joshua J., assignor.)						
Rodgers, William R., J. T., and G. B., Memphis, Tenn. Packing attachment for cotton and other presses.....	357,232	Feb. 8	721	186	38	563
Rodgers, William T., Mount Union, Pa. Car-coupling.....	361,375	Apr. 19	1417	366	39	279
Rodin, C. F. (See Wikman, Johan O., assignor.)						
Rodkey, William E. (See Lykens and Rodkey.)						
Rodman, William B., Norfolk, Va. Faucet.....	375,508	Dec. 27	1896	496	41	1439
Rodrigue, Michael I., San Francisco, Cal. Pen-holder.....	365,320	June 21	1621	422	39	1406
Roe, Alpheus E., assignor to Tatum & Bowen, San Francisco, Cal. Crushing-mill.....	375,199	Dec. 20	1494	391	41	1353
Roe, Alpheus E., and D. L. Harback, assignors to Tatum & Bowen, San Francisco, Cal. Saw-mill set-works.....	366,795	July 19	1437	384	40	288
Roe, George G. (See Mulholland, Robert, assignor.)						
Roe, Thomas. (See Uhlin, George, assignor.)						
Roebuck, Samuel, New York, N. Y. Window-screen.....	369,261	Aug. 30	2740	730	40	1011
Roebuck, Thomas G., Jersey City, N. J. Button-mold.....	366,688	July 19	1295	346	40	262
Roed, Erik O., assignor of one-half to D. Scannell, Philadelphia, Pa. Fire-escape ladder.....	364,546	June 7	491	132	39	1180
Roeder, Alfred, East Greenville, Pa. Shutter fastener and bower.....	366,881	July 19	1554	416	40	310
Roeder, Ferdinand, Frankfort-on-the-Main, Germany. Shoe-stretcher.....	373,569	Nov. 22	1968	523	41	862
Roelofs, Anthony, Philadelphia, Pa. Railway-rail tie and fastening.....	365,350	June 21	1666	435	39	1415
Roemer, William, Newark, N. J. Fixture for bag-frames.....	358,987	Mar. 8	842	213	38	1064
Roemer, William, Newark, N. J. Bag or valise frame.....	358,988	Mar. 8	843	213	38	1064
Roemer, William, Newark, N. J. Mail-bag.....	374,323	Dec. 6	221	58	41	1087
Roemer, William, Newark, N. J. Bag or satchel fastening.....	374,324	Dec. 6	222	59	41	1088
Roemer, William, Newark, N. J. Bag or satchel frame.....	374,325	Dec. 6	223	59	41	1088
Roenigk, Alfred G., Pittsburg, Pa. Pillow.....	368,114	Aug. 9	1120	298	40	672
Roeske, Henry, Philadelphia, Pa. Filter.....	357,505	Feb. 8	1093	288	38	634
Roesling, Fred, Point Marblehead, Ohio. Tobacco-pipe.....	364,960	June 14	1093	284	39	1299
Röger, Albert H., Philadelphia, Pa. Window.....	375,000	Dec. 20	1215	317	41	1299
Rogers, Albert C., Alfred, N. Y. Friction-clutch.....	370,821	Oct. 4	93	25, 26	41	20
Rogers, Alonzo B., et al. (See Rogers, Richard J., assignor.)						
Rogers, Barna B. (See Marshall, John B., assignor.)						
Rogers & Bros., C. (See Bronson, Granville B., assignor.)						
Rogers, Charles D., Providence, R. I. Automatic fire-extinguisher.....	364,299	June 7	130	37, 38	39	1113

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Rogers, Charles D., Providence, R. I. Drive-screw	364,300	June 7	132	38	39	1114
Rogers, Charles D., Providence, R. I. Wire nail	364,301	June 7	133	38	39	1114
Rogers, Charles D., Providence, R. I. Drive-screw	364,302	June 7	134	38	39	1114
Rogers, Charles D., Providence, R. I. Wire nail	364,439	June 7	326	89	39	1150
Rogers, Charles D., Providence, R. I. Automatic cut-out for fire-alarm-box controllers	375,569	Dec. 27	1987	518	41	1457
Rogers, Charles D., assignor to American Screw Company, Providence, R. I. Wood-screw	367,011	July 19	1712	461	40	340
Rogers, Charles D., assignor to American Screw Company, Providence, R. I. Wire nail	368,687	Aug. 23	1945	516	40	848
Rogers, Charles D., assignor to American Screw Company, Providence, R. I. Manufacture of wire nails	368,688	Aug. 23	1946	516	40	848
Rogers, Charles D., assignor to American Screw Company, Providence, R. I. Machine for making wood-screws	370,353	Sept. 20	1491	400	40	1331
Rogers, Charles D., assignor to American Screw Company, Providence, R. I. Die for rolling screw-threads	370,354	Sept. 20	1495	401	40	1332
Rogers, Charles D., assignor to American Screw Company, Providence, R. I. Device for holding and guiding screw-blanks	375,097	Dec. 20	1354	{ 353 } 354	{ 41 }	1324
Rogers, Charles D., assignor to American Screw Company, Providence, R. I. Die for swaging the points and threads of wood-screws	375,098	Dec. 20	1357	354	41	1325
Rogers, Charles D., assignor to American Screw Company, Providence, R. I. Self-adjusting die for swaging wood-screws	375,099	Dec. 20	1359	{ 354 } 355	{ 41 }	1325
Rogers, Charles F., Boston, assignor to E. J. Rogers, Chelsea, Mass. Street-car signal	358,484	Mar. 1	91	23	38	920
Rogers, Charles W., Baltimore, Md. Machine for making leather cruppers	360,730	Apr. 5	475	121	39	89
Rogers, Charles W., Baltimore, Md. Harness-saddle pad	368,115	Aug. 9	1122	298	40	672
Rogers, David J., Bardstown, assignor of one-half to G. T. Sansbury, Lebanon, Ky. Heating-stove	368,116	Aug. 9	1123	298	40	672
Rogers, Eli, Fulton County, Ind. Saw-gummer	357,336	Feb. 8	856	224	38	589
Rogers, Eliza J. (See Rogers, Charles F., assignor.)						
Rogers, Frank G., et al. (See Miller, Edward I., assignor.)						
Rogers, George W., et al. (See Fellows, Alvah L., assignor.)						
Rogers, Hamilton, assignor to M. Rogers, Toledo, Ohio. Car-axle box	370,088	Sept. 20	1118	297	40	1260
Rogers, J. Harris, Bladensburg, Md. Method of and apparatus for synchronizing and regulating the movements of motors	358,753	Mar. 1	487	{ 118 } 119	{ 38 }	994
Rogers, James L., Marshfield, Mass. Window-screen	355,340	Jan. 4	69	19	38	14
Rogers, James S., Rockport, Mass. Self-dumping scow	357,857	Feb. 15	1629	423	38	742
Rogers, John, Elkhart, Ind. Machine for grinding mowing-machine knives	370,658	Sept. 27	1963	519	40	1425
Rogers, John Z. (See Tirrell, Jacob P., assignor.)						
Rogers, Lebbeus H., New York, N. Y. Toboggan-slide	363,914	May 31	2617	679	39	996
Rogers, Myrtee. (See Rogers, Hamilton, assignor.)						
Rogers, Richard J., assignor of two-thirds to A. B. Rogers, Chelsea, and J. M. Byron, Boston, Mass. Oscillating water-meter	373,608	Nov. 22	2023	{ 537 } 538	{ 41 }	874
Rogers, Thomas C. (See Leadbeater, Fred, assignor.)						
Rogers, Timothy, assignor to Hanika Iron Fence Company, Springfield, Ohio. Clutch	360,393	Mar. 29	2978	755	38	1486
Rogers, William H., Amherst, Nova Scotia, Canada. Fishway	366,257	July 12	700	190	40	140
Rogers, Winfield S. (See Jones and Rogers.)						
Rogers, Winfield S., assignor to P. G. March & Co., Cincinnati, Ohio. Feed mechanism for drilling-machines	373,755	Nov. 22	2224	595	41	915
Roggy, Nicholas, Walnut, Ill. Cultivator	366,258	July 12	701	190	40	140
Rohde, August E. (See Beyer and Rohde.)						
Rohlfing, William, Jr., Milwaukee, Wis. Music-desk for upright pianos	363,767	May 24	2413	626	39	953
Rohlfis, Charles, Brooklyn, assignor to J. Jewett, Buffalo, N. Y. Stove	360,784	Apr. 5	547	142	39	103
Rohling, William H., Lula Station, Miss. Cotton-picker	364,440	June 7	327	89, 90	39	1150
Rohlmann, Joseph, St. Joseph, Mo. Wood-turning lathe	364,441	June 7	329	{ 90 } 91 92	{ 39 }	1151
Rohner, Joseph, assignor to Society of Chemical Industry, Basle, Switzerland. Production of new coloring-matter	365,409	June 28	1761	.....	39	1445
Rohnert, Frederick. (See Gray, Herbert, assignor.)						
Rohney, Alexander B., Pittsburg, Pa. Globe-valve	357,561	Feb. 8	1190	313	38	652
Rohrdantz, Henry, River Head, N. Y. Pendant-stem for watches	361,597	Apr. 19	1720	444	39	336
Rohrkaste, Charles W. (See Happe, Henry B., assignor.)						
Rolfe, Abial W., Penacook, N. H. Shafting and pulley	370,416	Sept. 27	1593	425	40	1358
Rolland, Auguste, and E. L. Coninck, Paris, France. Argand lamp-burner	366,509	July 12	1026	279	40	203
Rollason, Joseph G. (See McIlvenna and Rollason.) (Reissue.)						
Rolleston, Lancelot, Watnall Hall, county of Nottingham, England. Saddle-bar	356,664	Jan. 25	1957	514	38	397
Rollins, Alice W., et al. (See Coultaus, Joseph A., assignor.)						
Rollins, Andrew N., Boston, Mass., assignor to Rollins Ore Separating Machine Company, Portland, Me. Amalgamator	366,130	July 5	520	140	40	98
Rollins, Harrison S. (See Rollins, Walter A. and H. S.)						
Rollins, John B., et al. (See Glazier, George W., assignor.)						
Rollins, John P., Cedar Rapids, Iowa. Bob-sled	364,137	May 31	2945	765	39	1059
Rollins Ore Separating Machine Company. (See Rollins, Andrew N., assignor.)						
Rollins, Walter A. and H. S., Chicago, Ill. Trousers-stretcher	375,100	Dec. 20	1361	355	41	1325
Rollins, William H., et al. (See Coultaus, Joseph A., assignor.)						
Rombauer, Raphael G., Carthage, Mo. Hand-car	366,882	July 19	1555	417	40	311
Romain, James H. (See Hoffmann, Otto C., assignor.)						
Römer, Adolph, Ludwigshafen-on-the-Rhine, Bavaria, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of red coloring-matter	359,576	Mar. 15	1685	.....	38	1228
Römhildt, Louis, Weimar, Germany. Piano	361,240	Apr. 12	1233	314	39	234
Romig, John, Mifflinburg, Pa. Latch	356,696	Jan. 25	1995	524	38	403
Romweber, Gust, Minneapolis, Minn. Means for elevating grain	368,242	Aug. 16	1323	348	40	717
Rong, Henry, Pleasant Hill, Ohio. Fence	359,520	Mar. 15	1594	408	38	1212
Rood, Theodore, Westfield, assignor of one-half to C. P. Northrop, Warren, Pa. Wagon-brake	369,995	Sept. 13	975	258	40	1226
Rook, John, Washington, D. C. Fire-kindler	360,917	Apr. 12	742	.....	39	144
Rooks, Alva N., Alpha, Mo. Tongue-support	364,858	June 14	944	249	39	1272
Rooney, Thomas, and A. L. Burtis, Lockport, N. Y. Paint-breamer	357,633	Feb. 15	1306	343	38	683
Roop, Frank, Norristown, assignor to I. B. Watt, J. A. Thomson, Jr., W. S. Wolford, and R. M. Popham, Philadelphia, Pa. Car-coupling	373,947	Nov. 29	2504	672	41	975
Roop, Howard W., McMeekin, Fla. Excavator	361,895	Apr. 26	2167	561	39	427
Roop, Howard W., McMeekin, Fla. Excavator	370,970	Oct. 4	349	86, 87	41	69
Roorbach, William L. (See Tucker and Roorbach.)						
Roorbach, William L. (See Tucker and Roorbach.) (Reissue.)						
Roos, Edward, Galt, Ontario, Canada. Felt boot	357,099	Feb. 1	504	134	38	515
Roos, Edward, Chicago, Ill. Curtain-pole	362,316	May 3	342	94	39	540
Roosa, Frank M., Jacksonville, Ill. Decorative paper	368,493	Aug. 16	1679	447	40	787

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Roosevelt, Alfred, executor. (See Roosevelt, Hilborne L.)						
Roosevelt, Hilborne L., deceased, New York, N. Y.; A. Roosevelt, executor. Electric organ- action.	374,088	Nov. 29	2712	{ 727 728 }	{ 41 }	1017
Roosevelt, Hilborne L., deceased; A. Roosevelt, New York, N. Y., executor. Electro-pneu- matic mechanical movement.	375,001	Dec. 20	1215	317	41	1299
Root, Amos B., and J. F. Youtz, Mount Joy, Pa. Adjustable plow-shovel.	357,788	Feb. 15	1539	401	38	725
Root, Benjamin M., York, Pa. Corn-sheller.	368,356	Aug. 16	1474	{ 392 393 }	{ 40 }	748
Root, Charles G., San Quentin, Cal. Loom-shuttle.	372,239	Oct. 25	2181	560	41	450
Root, G. Wells. (See Sperry, Alfred W., assignor.)						
Root, Henry. (See Thomas, William J., assignor.)						
Root, Judson E., assignor of one-half to R. D. Rockwell and E. H. Dickerman, Westfield, N. Y. Coupling-guard for bell-ropes.	362,398	May 3	453	126	39	563
Root, Miles C., assignor of two-thirds to R. G. Bacon and A. Will, Toledo, Ohio. Portable oven.	371,151	Oct. 4	593	152	41	117
Roovers, Alfred W. (See Williams and Roovers.)						
Roper, Charles F., Hopedale, assignor to F. P. Fish, trustee, Cambridge, Mass. Machine for shaping heads of screws.	372,276	Oct. 25	2231	572	41	459
Roper, Charles F., Hopedale, assignor to F. P. Fish, trustee, Cambridge, Mass. Screw- nicking machine.	372,277	Oct. 25	2233	{ 572 573 }	{ 41 }	459
Roper, Charles F., Hopedale, assignor to F. P. Fish, trustee, Cambridge, Mass. Screw- machine.	373,684	Nov. 22	2129	{ 570 571 }	{ 41 }	897
Ropp, Jerome W., Elyria, Ohio. Chape for halters.	367,238	July 26	2047	551	40	412
Roquemore, Peter G. (See Parks and Roquemore.)						
Roraback, Isaac, Davenport, Iowa. Harness-buckle.	362,540	May 10	663	186	39	605
Roraback, Tarbell Z., Toledo, Ohio, assignor of one-half to L. D. Tarbell, Sherman, Mich. Car-door.	370,712	Sept. 27	2043	543	40	1440
Rorick, Frank H., and C. F. Storrs, Chicago, Ill., assignors of one-third to J. C. Rorick, Wauseon, Ohio. Truss.	370,023	Sept. 13	1025	270	40	1235
Rorick, John C. (See Rorick and Storrs, assignors.)						
Rosa, Albert, Milwaukee, Wis. Sad-iron.	369,556	Sept. 6	332	92	40	1097
Rosback, Frederick P., Englewood, Ill. Perforator.	374,880	Dec. 13	1014	265	41	1253
Rosback, Fredrick P. (See Colahan and Rosback.)						
Roscoe, Allison M., Dubois, Pa. Pencil-pocket.	374,131	Nov. 29	2765	743	41	1026
Rose, Albert A., Gregory, Mich. Expansion-wheel.	359,098	Mar. 8	983	251	38	1091
Rose, Christian. (See Rose, John H. and C.)						
Rose, George P., Fentonville, Mich. Whip-socket.	359,286	Mar. 15	1239	322	38	1146
Rose, George H., Canton, Ohio. Collar-button.	361,324	Apr. 19	1344	346	39	266
Rose, Jacob A. (See Jones, Charles E., assignor.)						
Rose, James B., Canton, Ohio. Watch-maker's tool.	358,885	Mar. 8	706	174	38	1038
Rose, James M., Allegheny City, Pa. Manufacture of water-gas.	370,971	Oct. 4	350	87	41	
Rose, James M., Allegheny City, Pa. Manufacture of water-gas.	370,972	Oct. 4	353	87	41	69
Rose, James M., Allegheny City, Pa. Manufacture of water-gas.	370,973	Oct. 4	355	88	41	70
Rose, John H., Prairie du Sac, Wis. Twine guide and tension device for harvesters.	356,377	Jan. 18	1545	406	38	311
Rose, John H. and C., assignors of one-third to M. C. Moore, Prairie du Sac, Wis. Agri- cultural boiler.	372,044	Oct. 25	1887	487	41	395
Rose, Lafayette D., South Carrollton, Ky. Ironing-table.	364,547	June 7	492	132	39	1180
Rose, Preston B., Ann Arbor, Mich. Tank-waste fertilizer.	371,630	Oct. 18	1260		41	264
Rose, Watson and W. H., Philadelphia, Pa. Fire-door.	358,789	Mar. 1	537	132	38	1004
Rose, William H. (See Rose, Watson and W. H.)						
Rosell, Carl, et al. (See Hirsch, Feodor, assignor.)						
Rosen, Joseph A., Newburyport, assignor of one-half to W. Varney, Boston, Mass. Chair.	375,570	Dec. 27	1991	518	41	1457
Rosenberg, Hugo, Allegheny City, Pa. Umbrella-fastener.	357,858	Feb. 15	1631	424	38	743
Rosenberg, Seymour H., and J. R. Bradley, New Haven, Conn. Embroidering-machine.	365,635	June 28	2100	547	39	1510
Rosenblatt, Samuel, New York, N. Y. Telephone-support.	357,337	Feb. 8	857	224	38	589
Rosenblatt, Samuel, New York, N. Y. Telephone-support.	362,115	May 3	90	27	39	490
Rosenheim, Max, et al. (See Martin, Jakob, assignor.)						
Rosenkranz, Adam, assignor of one-half to D. Lutz, Allegheny, Pa. Steam-engine.	361,598	Apr. 19	1721	{ 444 445 }	{ 39 }	336
Rosenkranz, Louis, Rhinebeck, N. Y. Egg beater and mixer combined.	374,706	Dec. 13	766	201	41	1206
Rosenow, Friedrich W., Reppen, near Frankfort-on-the-Main, Prussia, Germany. Lamp- chimney.	363,544	May 24	2093	542	39	891
Rosenthal, David. (See Rosenthal, Levy and D.)						
Rosenthal, Levy and D., Hudson, N. Y. Car-coupling.	368,786	Aug. 23	2087	553	40	873
Roser, Harry, Long Island City, assignor to J. H. Swift, South Amenia, N. Y. Means for operating railway-switches.	369,815	Sept. 13	688	186	40	1173
Roser, Harry, New York, assignor to E. Thorne, Millbrook, and J. H. Swift, South Amenia, N. Y. Means for operating railway danger-signals in connection with switches.	369,816	Sept. 13	690	186	40	1174
Rosewater, Frank, Omaha, Nebr. Index-book.	356,334	Jan. 18	1484	391	38	299
Rosewater, Frank, Cleveland, Ohio. Indexed book.	371,791	Oct. 18	1503	388	41	313
Rosier, Thomas R., Sioux Falls, Dak. Ter. Flaxseed and grain separator.	365,863	July 5	148	39	40	30
Ross, Albert J., Hollis, Tex. Plow.	357,100	Feb. 1	505	134	38	515
Ross, Alexander, and C. A. McAllister, assignors of one-third to B. F. Blackall, Rochester, N. Y. Automatic sprinkler.	368,425	Aug. 16	1571	420	40	768
Ross, Augustus, et al. (See Miller, Edward L., assignor.)						
Ross, Calvin. (See Patrick, Orlando, assignor.)						
Ross, Charles, Jr., Brooklyn, N. Y. Belt-shifter.	368,009	Aug. 9	985	265	40	647
Ross, David M. (See Lindsay and Ross.)						
Ross, Elbridge C., Stoughton, assignor of one-half to G. G. Snow, Brockton, Mass. Presser- foot and welt-guide combined.	366,259	July 12	703	190	40	140
Ross, Finlay W., and C. P. Henrikson, Prentiss' Bay, Mich. Steam-engine.	363,300	May 17	1735	454	39	814
Ross, George and W. L. Troy, N. Y. Water-engine.	375,200	Dec. 20	1495	392	41	1353
Ross, George M., Slate, W. Va. Hay-fork.	361,650	Apr. 19	1804	468	39	353
Ross, George W. (See White, Maurice W., assignor.)						
Ross, George W., et al. (See Kalkhoff, Otto, assignor.)						
Ross, Jennie L., et al. (See Parker, Samuel J., assignor.)						
Ross, John A. (See Dyer, William H., assignor.)						
Ross, John F., Toronto, Ontario, Canada. Soldering-machine.	356,730	Jan. 25	2041	536	38	411
Ross, John M., Bower Hill, Pa. Reamer for boring gas, oil, or water wells.	373,908	Nov. 29	2450	658	41	965
Ross, Levi J., Goodwin, Dak. Ter. Grain-separator.	365,636	June 28	2101	547	39	1511
Ross, Moyer & Co. (See Ross, Simon, Jr., assignor.)						
Ross, Robert R. (See Thompson, Melchesedek Y., assignor.)						
Ross, Simon, Jr., Linwood, assignor to Ross, Moyer & Co., Cincinnati, Ohio. Burnishing- machine for boots or shoes.	368,853	Aug. 23	2183	579	40	892

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Ross, William. (See Ross, George and W.)						
Ross, William W., Saratoga, Kans. Bridle-blind.....	369,127	Aug. 30	2574	684	40	977
Rosser, Edward. (See Mitchell, Barnard W., assignor.)						
Rossiter, Paul, San Francisco, Cal. Feed-water heater.....	362,904	May 10	1192	319	39	702
Röstel, Carl, assignor to Grusonwerk, Buckau, near Magdeburg, Prussia, Germany. Breech-loading gun.....	369,964	Sept. 13	926	246	40	1217
Rote Automatic Brake Company. (See Linham and Agnew, assignors.)						
Rote, Lundy J. (See Bates, Orren, assignor.)						
Roth, Carl, <i>et al.</i> (See Ullrich, Eduard, assignor.)						
Roth, Carl, Charlottenburg, Prussia, assignor to L. Loewe & Co., Commandit-Gesellschaft auf Actien, Berlin, Germany. Explosive.....	375,651	Dec. 27	2108	.....	41	1478
Roth, Charles F., assignor of one-half to J. S. Boggess, Middleport, Ohio. Nail-plate feeder.....	368,551	Aug. 16	1758	{ 467 468 }	40	802
Roth, Elias D., <i>et al.</i> (See Patterson, Arthur H., assignor.)						
Roth, George M., <i>et al.</i> (See Collins, M. Grier, assignor.)						
Roth, John F., Chicago, Ill. Kitchen-dresser.....	367,239	July 26	2047	552	40	412
Rothchild, Samuel, Pendleton, Oreg. Harrow and pulverizer.....	362,464	May 3	555	154	39	581
Rothrock, Oscar, New York, N. Y. Heater and feeder.....	368,170	Aug. 9	1199	320	40	687
Rothwell, William, Bolton, county of Lancaster, England. Straight-knitting machine.....	358,167	Feb. 22	2072	545	38	829
Rothwell, William, Bolton, county of Lancaster, England. Knitting-machine.....	362,664	May 10	850	233	39	638
Roueche, Frank. (See Margach, Fred M., assignor.)						
Rouget, Charles, assignor of one-half to E. P. Voisard, San Francisco, Cal. Ship's course corrector.....	368,973	Aug. 30	2358	626	40	935
Round, R. M. (See Timms, James, assignor.)						
Round Valve Company. (See Reaser, Warren T., assignor.)						
Rountree, Reuben. (See Wise and Rountree.)						
Rouse, Elisha A., and H. Summers, Bozeman, Mont. Ter. Tug-coupling.....	355,474	Jan. 4	238	63	38	48
Rouse, Harry G. (See Duryea, Charles E., assignor.)						
Rouse & Hills. (See Hickel, W. Oscar, assignor.)						
Rouse, Samuel J., Paris, Tex. Cotton chopper and scraper.....	365,864	July 5	151	39, 40	40	31
Rousmaniere, John L., Boston, Mass. Boot or shoe strap.....	367,850	Aug. 9	750	202	40	602
Rousseau, Auguste T., Cambridge, Mass. Toy.....	356,731	Jan. 25	2042	536	38	412
Rousselle, Louis, Paris, France. Button or stud.....	369,557	Sept. 6	333	92	40	1098
Rovane, John, Keokuk, Iowa. Plant support and protector.....	374,906	Dec. 13	1055	276	41	1262
Rowan, Thomas E., London, Ohio. Means for operating ditching-machines.....	371,520	Oct. 11	1106	288	41	225
Rowand, Asaph T. (See Henry, Charles V., assignor.)						
Rowcliffe, Charles E., <i>et al.</i> (See Connett and White, assignors.)						
Rowe, Alfred M., Chicago, Ill. Feed-water heater.....	359,634	Mar. 22	1789	455	38	1263
Rowe, Arthur. (See Dineen, George P., assignor.)						
Rowe, Edward, Indiana, Pa. Rain-water cut-off and strainer.....	358,820	Mar. 1	586	145	38	1012
Rowe, Edward, and R. D. Hetrick, Indiana, Pa. Tree-protector.....	369,616	Sept. 6	423	118	40	1115
Rowe, Edwin C., Orbisonia, Pa. Safety attachment for railway-car heaters.....	374,007	Nov. 29	2585	695	41	992
Rowe, George B., Eddyville, Iowa. Holder for parcels or bundles.....	367,321	July 26	2166	583	40	433
Rowe, James H. (See Verstraete, Edmond, assignor.)						
Rowe, John W., <i>et al.</i> (See Bail, Philip V., assignor.)						
Rowe, Robert, Madisonville, Ky. Railway-switch.....	365,704	June 28	2203	575	39	1529
Rowe, W. B., <i>et al.</i> (See Still, John W., assignor.)						
Rowe, William N., assignor to Novelty Manufacturing Company, Washington, D. C. Fountain scrubbing-brush.....	373,197	Nov. 15	1392	369	41	745
Rowe, William S., St. Louis, Mo. Feed-water heater.....	358,821	Mar. 1	587	146	38	1012
Rowell, Almon B. (See Daniels and Rowell.)						
Rowell, Benton C., Boston, Mass. Automatic brake.....	356,794	Feb. 1	75	21	38	437
Rowell, Horace N., assignor of one-half to J. W. Duxbury, Boston, Mass. Galvanic ring.....	371,521	Oct. 11	1108	289	41	225
Rowell, Samuel C., assignor of five-eighths to J. W. Newell and J. W. Newell, trustee, Boston, Mass. Litharge-furnace.....	370,892	Oct. 4	220	56	41	43
Rowland, Charles, Quincy, Ill. Postal tablet.....	367,163	July 26	1933	522	40	389
Rowland, Samuel, assignor of one-half to E. C. Cook & Brother, Chicago, Ill. Rope-securing device.....	369,079	Aug. 30	2514	667	40	965
Rowland, Thomas F., New York, N. Y. Door for digesters.....	357,101	Feb. 1	505	134	38	516
Rowlands, David J. (See Rowlands, Evan and D. J.)						
Rowlands, Evan and D. J., Youngstown, Ohio. Type-writing machine.....	367,447	Aug. 2	121	34, 35	40	474
Rowlands, John T., Racine, Wis. Horse-collar fastening.....	364,375	June 7	229	65	39	1132
Rowlett, George B., Philadelphia, Pa. Sash-holder.....	368,010	Aug. 9	986	265	40	647
Rowlett, Jacob V., Richmond, Ind. Roller-skate.....	362,478	May 3	573	159	39	585
Rowley, James F. and W. J., assignors of one-third to W. F. Carson, Des Moines, Iowa. Car-coupling.....	359,577	Mar. 15	1686	430	38	1229
Rowley, William J. (See Rowley, James F. and W. J.)						
Roy, Isidore V., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Wooden pulley.....	370,495	Sept. 27	1721	457	40	1380
Royall, Peter J. (See Wainwright and Royall.)						
Royce, Mary E., Toledo, Ohio. Tension device for finger-bands.....	370,893	Oct. 4	222	56	41	43
Royce, W. (See Billings, Jasper, assignor.)						
Royle, John, Jr. (See Royle, Vernon and J., Jr.)						
Royle, John J., Manchester, county of Lancaster, England. Reducing-valve.....	363,422	May 24	1904	500	39	855
Royle, John J., Manchester, county of Lancaster, England. Steam-trap.....	367,851	Aug. 9	751	202	40	602
Royle, Vernon and J., Jr., Paterson, N. J. Waste and flushing valve for water-closet vaults, &c.....	359,743	Mar. 22	1945	493	38	1292
Royle, Vernon and J., Jr., Paterson, N. J. Warping or reeling machine.....	370,162	Sept. 20	1229	{ 327 328 329 }	40	1281
Royle, Vernon and J., Jr., Paterson, N. J. Routing-machine.....	374,707	Dec. 13	767	{ 201 202 }	41	1206
Rozell, Charles, Great Bend, Kans. Hame-tug buckle.....	368,011	Aug. 9	987	265	40	647
Rubber and Celluloid Harness Trimming Company. (See Read, James A., assignor.)						
Rubber and Celluloid Harness Trimming Company. (See Theobald, George, assignor.)						
Rubenstein, Nathan, Chicago, Ill. Wash-boiler.....	369,299	Aug. 30	2796	745	40	1022
Ruberg, Nelson C., South Braintree, assignor of one-half to F. D. Colburn, Norwood, Mass. Machine for making metallic shoe-shanks.....	356,081	Jan. 11	1126	297	38	225
Ruble, Martin R., Golconda, Ill. Water-wheel or ship's propeller.....	357,859	Feb. 15	1632	424	38	743
Ruble, Walter, Salem, Oreg. Gate.....	372,432	Nov. 1	220	61	41	511
Ruble, Hiram W., Denver, Colo. Wagon-jack.....	361,025	Apr. 12	913	231	39	173
Rubin, Max. (See Daniel and Rubin.)						
Rubin, Max, New York, N. Y. Picture holder and exhibitor.....	366,510	July 12	1027	280	40	204

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Ruch, George. (See Ruch, John and J., Jr., assignors.)						
Ruch, John and J., Jr., Philadelphia, Pa. Mothproofing curled hair	369,739	Sept. 13	584		40	1154
Ruch, John and J., Jr., assignors to themselves and G. Ruch, Philadelphia, Pa. Mothproofing hair	359,287	Mar. 15	1240	.....	38	1146
Ruch, John and J., Jr., assignors to themselves and G. Ruch, Philadelphia, Pa. Mothproofing hair, wool, &c	367,550	Aug. 2	283	.....	40	505
Ruddick, Baker S., Columbus, Ind. Harmonica-holder	366,260	July 12	704	191	40	141
Ruddy, Robert. (See Kaczander and Ruddy.)						
Rudell, Peter E., New York, N. Y. Photographic-plate holder	371,855	Oct. 18	1602	414	41	334
Rudnicki, Wladyslaw, Warsaw, Russia. Snow-guard	361,783	Apr. 26	1999	{ 519 520 }	{ 39 39 }	395
Rudolph, Franklin, Chicago, Ill. Ornamentation of sheet metal	374,559	Dec. 6	566	149	41	1155
Rudolph, Justus H., Walnutport, Pa. Machine for sawing slate	357,133	Feb. 1	581	149	38	528
Rue, Mary E. (See Rue, Samuel, assignor.)						
Rue, Samuel, assignor to M. E. Rue, Ercildoun, Pa. Trimmer or shears	359,890	Mar. 22	2186	551	38	1335
Ruediger, Theodor, Chaska, Minn. Flexible wire gate	359,941	Mar. 22	2264	569	38	1349
Ruesing, Joseph, <i>et al.</i> (See Johnson, David, assignor.)						
Ruffcorn, James C., Polk, Ohio. Fence	364,187	May 31	3022	784	39	1074
Ruffin, Maria C. A. (See Bang and Ruffin.)						
Ruffner, Daniel B., <i>et al.</i> (See Dunn, William, assignor.)						
Ruger, Henry K., Bay St. Louis, Miss. Insulator	367,164	July 26	1934	522	40	389
Ruger, Nelson, Wilkes-Barré, Pa. Fuel cut-off for grates	373,685	Nov. 22	2132	{ 571 572 }	{ 41 41 }	897
Rugg, George W., Newark, Ohio. Celery-collar	361,241	Apr. 12	1234	314	39	234
Ruggles, Fredrick N. (See Long, Filley, and Ruggles.)						
Rule, Peter, administrator. (See Van Matre, William.)						
Rulifson, Philetus and W. W., Wheatland, N. Y. Bean-harvester	364,603	June 7	560	151	39	1193
Rulifson, William W. (See Rulifson, Philetus and W. W.)						
Rumbaugh, Michael, Cincinnati, Ohio. Heating and ventilating buildings	362,116	May 3	90	27, 28	39	491
Rumpf, Gustav, Frankfort-on-the-Main, Prussia, Germany, assignor to Verein für Chemische Industrie in Mainz. Obtaining muriatic acid	360,026	Apr. 12	913	231	39	173
Rumrille, Henry J., Camden, N. J. Umbrella-tent	373,378	Nov. 15	1669	443	41	796
Rumsey, William D., Detroit, Mich. Two-wheeled vehicle	361,325	Apr. 19	1344	346	39	266
Rundell, Luman, New Baltimore, N. Y. Ox-bow	366,883	July 19	1556	417	40	311
Rundell, Sam S., and L. J. Doggett, Delhi, La. Car-coupling	373,854	Nov. 29	2372	638	41	350
Rundle, Alfred J. (See Rundle, Thomas and A. J.)						
Rundle, Anthony M. (See Murphy and Rundle.)						
Rundle, Thomas and A. J., Iron Mountain, Mich. Heater for giant-powder and other explosives	373,609	Nov. 22	2024	538	41	874
Rundle, William B. (See Hard, Josiah A., assignor.)						
Runels, Charles, assignor of two-thirds to H. Runels and G. W. Rand, Lowell, Mass. Electric coupling	367,931	Aug. 9	870	237	40	625
Runels, Henry, <i>et al.</i> (See Runels, Charles, assignor.)						
Runeström, Erik, Boston, Mass. Violin	358,573	Mar. 1	240	56	38	948
Rung, Henry, Rochester, assignor to H. M. Kirkpatrick, Macedon, N. Y. Device for trueing metal castings	373,855	Nov. 29	2373	638	41	951
Runge, Arthur, assignor to O. Hahn, Dresden, Saxony, Germany. Alarm-clock	359,983	Mar. 22	2333	{ 586 587 }	{ 38 38 }	1362
Rüngert, Edward L. and J. G., East St. Louis, Ill. Rattan-working machine	370,355	Sept. 20	1496	401	40	1332
Rüngert, Julius G. (See Rüngert, Edward L. and J. G.)						
Runion, Edward V., Selina, Cal. Oil-can	372,332	Nov. 1	69	21	41	484
Runkle, Benjamin P. (See Piatt, William M., assignor.)						
Runyan, Milo B., Fort Buford, Dak. Ter., assignor to himself and B. C. Welsh, U. S. Army. Whiffletree-coupling	372,988	Nov. 8	1060	283	41	674
Runyon, Milo B., assignor of one-half to B. C. Welsh, Fort Buford, Dak. Ter. Picket-pin	362,183	May 3	173	51	39	507
Rupf, Henry, Brooklyn, N. Y. Traveling-bag frame	365,024	June 14	1181	310	39	1314
Rupf, Henry, Brooklyn, N. Y. Fastening device for traveling-bags, satchels, &c	365,760	June 28	2292	596	39	1545
Ruple, George, Duluth, Minn. Lubricator	369,128	Aug. 30	2574	684	40	978
Rupp, John J. (See Cassidy and Rupp.)						
Ruppel, Henry, assignor to Dangler Stove and Manufacturing Company, Cleveland, Ohio. Vapor-burner	366,261	July 12	704	191	40	141
Ruppel, Henry, and D. E. Dangler, assignors to Dangler Stove and Manufacturing Company, Cleveland, Ohio. Vapor-stove	372,706	Nov. 8	622	169	41	598
Rupprecht, Charles, Calumet, Mich. Tongue-support	360,394	Mar. 29	2979	755	38	1486
Rupprecht, G. Jacob, New York, N. Y. Trousers-stretcher	373,379	Nov. 15	1670	443	41	797
Ruse, Joseph. (See Foley, James S., assignor.)						
Rush, Barney, Flint, Mich. Combined carving-fork and steel	356,966	Feb. 1	312	85	38	480
Rush, H. C., <i>et al.</i> (See Spivey, Luke, assignor.)						
Rush, Peter S., Atlanta, Tex. Steam-engine	368,974	Aug. 30	2359	{ 626 627 }	{ 40 40 }	935
Rushmore, Isaac W., Plainfield, N. J. Apparatus for heating buildings	361,784	Apr. 26	2001	520	39	396
Rushton, Hiram, Toronto, Ontario, Canada. Steam-boiler cleaner	360,821	Apr. 5	598	157	39	113
Rusler, Henry B. (See Glynn, Nathaniel, assignor.)						
Russ, Norman W., Denmark Hill, county of Surrey, England. Automatic vending apparatus for cigars, cigarettes, &c	367,551	Aug. 2	283	79, 80	40	505
Russack, Max, St. Louis, Mo. Attachment for car-seats	360,540	Apr. 5	214	53	39	42
Russell, Albert N., <i>et al.</i> receivers. (See Diss, Louis P., assignor.)						
Russell, Calvin, and P. H. Cragin, assignors to Seneca Screen Company, Penn Yan, N. Y. Paper-pulp screen	359,543	Mar. 15	1623	416	38	1218
Russell, Calvin, and P. H. Cragin, assignors to Seneca Screen Company, Penn Yan, N. Y. Paper-pulp screen	359,544	Mar. 15	1624	416	38	1218
Russell, Charles H., assignor to Automatic Box Company, (limited,) London, county of Middlesex, England. Automatic vending apparatus	373,415	Nov. 15	1724	455	41	805
Russell, Edward, <i>et al.</i> (See Witherell, Loren R., assignor.)						
Russell, Elsey B., Bardstown, Ky. Gate	356,602	Jan. 25	1865	490	38	379
Russell & Erwin Manufacturing Company. (See Eddy, George W., assignor.)						
Russell & Erwin Manufacturing Company. (See Geer, George, assignor.)						
Russell & Erwin Manufacturing Company. (See Jones, Horace K., assignor.)						
Russell & Erwin Manufacturing Company. (See Russell, Henry E., Jr., assignor.)						
Russell, Frank N., Elmira, N. Y. Knife-sharpener	355,475	Jan. 4	239	63	38	48
Russell, George H., Lenox, Mass. Gage	368,854	Aug. 23	2184	579	40	893
Russell, George W., Coldwater, Mich. Cattle-stanchion	361,785	Apr. 26	2002	520	39	396
Russell, Henry A. (See Price and Russell.)						
Russell, Henry A., Boyne City, Mich. Clock	373,249	Nov. 15	1468	388	41	758

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Russell, Henry C., Toronto, Ontario, Canada. Step-ladder.....	357,233	Feb. 8	722	{ 186 187 }	{ 38 }	563
Russell, Henry E., Jr., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Signal-bell	373,416	Nov. 15	1725	456	41	806
Russell, Jacob, Brooklyn, N. Y. Machine for making timber-hangers	359,099	Mar. 8	983	{ 252 253 }	{ 38 }	1091
Russell, Jacob, Brooklyn, N. Y. Horseshoe-machine	368,620	Aug. 23	1848	494	40	829
Russell, Jacob, Brooklyn, N. Y. Machine for rolling horseshoe-bars.....	368,621	Aug. 23	1850	{ 494 495 }	{ 40 }	829
Russell, John. (See Katzner, Russell, and Chase.)						
Russell, John H., Boston, Mass. Hair-pin	356,263	Jan. 18	1376	364	38	279
Russell, John L., Troy, N. Y. Combined paper-weight, cigar, and ash-holder	371,901	Oct. 18	1672	431	41	346
Russell, John S., Detroit, Mich. Lamp-burner.....	358,127	Feb. 22	2017	530	38	818
Russell, John W., Canaan, Conn. Gage-knife.....	368,855	Aug. 23	2185	579	40	893
Russell, Joseph H. (See Moore, John T., assignor.)						
Russell, Luther, Evart, Mich. Fastening device for mail-bags, trunks, &c.....	375,684	Dec. 27	2161	562	41	1487
Russell, Philip G., et al. (See Graydon, James W., assignor.)						
Russell, Thomas W., Union Bridge, Md. Hen's nest	361,651	Apr. 19	1805	468	39	353
Russell, William H., Tranquillity, N. J. Insole for boots or shoes	357,942	Feb. 15	1740	454	38	763
Russell, William H., Walworth, Nebr. Wash-boiler.....	372,433	Nov. 1	221	62	41	512
Russell, William L., assignor of one half to B. F. Ketchum, Cambridge, N. Y. Wrench	358,886	Mar. 8	706	174	38	1039
Russia Cement Company. (See Brooks, Reuben, assignor.)						
Russwurm, Christ., South Bend, Ind. Cheek-piece for bridles.....	373,097	Nov. 15	1227	328	41	716
Rust, Armistead, U. S. Navy. Bung.....	364,188	May 31	3023	784	39	1074
Rusterholtz, Christian, Fairview, Pa. Wheel-harrow.....	372,489	Nov. 1	297	82	41	527
Ruth, August, St. Louis, Mo. Tobacco-pipe and manufacturing the same.....	372,769	Nov. 8	731	198	41	616
Ruth, James P., West Alexander, Pa. Axle-lubricator	366,131	July 5	521	140	40	98
Rutherford, Allan. (See Thompson, Thomas, assignor.)						
Rutherford, Jacob C., et al. (See Powell, Edwin R., assignor.)						
Rutherford, Reuben C., Quincy, Ill. Telegraph-sounder	357,789	Feb. 15	1540	401	38	725
Rutherford, S. Park, et al. (See Wilson, David Y., assignor.)						
Rutherford, Walter, Meredith, N. Y. Car-coupling	364,376	June 7	230	65	39	1132
Ruttman, Ferdinand S., Plainfield, N. J., and G. Singer, Pittsburg, Pa. Tripod.....	368,426	Aug. 16	1574	420	40	768
Rutz, Carl G., Brooklyn, N. Y. Trimming attachment for sewing-machines.....	369,658	Sept. 6	480	133	40	1126
Rutzler & Blake. (See Blake, George W., assignor.)						
Ryan, Abram H. (See Ryan, George W., assignor.)						
Ryan, Frank S., and E. B. Knapp, San Jacinto, Cal. Bridle-winker stay	369,367	Sept. 6	84	26	40	1050
Ryan, George H., assignor to W. A. Sweetser, Brockton, Mass. Wire-nail machine.....	365,944	July 5	270	70, 71	40	52
Ryan, George W., assignor to A. H. Ryan, East Orange, N. J. Mounting for jewelry	363,915	May 31	2618	680	39	996
Ryan, James B., New York, N. Y. Woven-wire-mattress bed-bottom.....	368,309	Aug. 16	1414	373	40	736
Ryan, John, Cincinnati, Ohio. Band-saw guide	373,786	Nov. 22	2270	609	41	922
Ryan, John J. (See Adams and Ryan.)						
Ryan, John J. (See Pratt and Ryan.)						
Ryan, John J., Sardis, Miss. Vehicle-pole	358,168	Feb. 22	2073	545	38	829
Ryan, John P. (See Johnson and Ryan.)						
Ryan, Joseph, St. Louis, Mo. Coupling for lubricators	358,074	Feb. 22	1933	510	38	805
Ryan, Joseph, St. Louis, Mo. Automatic lubricating apparatus.....	363,682	May 24	2290	{ 594 595 }	{ 39 }	929
Ryan, Joseph, St. Louis, Mo. Lubricator.....	363,683	May 24	2295	596	39	930
Ryan, Joseph, St. Louis, Mo. Lubricator.....	363,684	May 24	2298	{ 596 597 }	{ 39 }	931
Ryan, Kate, Brooklyn, N. Y. Filling attachment for hot-water bags.....	364,604	June 7	561	151	39	1193
Ryan, Luke, assignor to himself, A. S. Gourlay, S. B. McElroy, Apollo, and P. H. Laufman, Allegheny, Pa. Furnace	375,002	Dec. 20	1217	318	41	1299
Ryan, Patrick S., Rutland, Vt. Milk-strainer	356,555	Jan. 25	1806	473	38	367
Ryan, Sylvester A. (See Hovey, William H., assignor.)						
Ryan, Thomas P., Webster, Mass. Fastening for boots, shoes, &c.....	372,333	Nov. 1	70	21	41	485
Ryan, Thomas W., St. Clair, Mich. Rack.....	366,739	July 19	1365	366	40	275
Ryan, William, San Francisco, Cal. Hunting-decoy	368,427	Aug. 16	1575	{ 420 421 }	{ 40 }	769
Ryan, William E., French Lick, Ind. Bellows attachment.....	368,733	Aug. 23	2221	535	40	861
Rydbeck, Sven. (See Hagquist and Rydbeck.)						
Ryder, Charles M., Georgetown, Mass. Feeding appliance for rolling-mills.....	375,716	Dec. 27	2202	{ 573 574 }	{ 41 }	1495
Ryersee, James G. (See Franklin and Ryersee.)						
Ryerson, Nathlié T., administratrix. (See Ryerson, Van Buren.)						
Ryerson, Van Buren, deceased; N. T. Ryerson, administratrix and assignor to J. S. Hall, New York, N. Y. Machine for reducing cereals, &c	368,900	Aug. 23	2245	597	40	904
Rylander, William P., Lockhart, Tex. Bale-tie	355,887	Jan. 11	839	220	38	170
Rylands, Dan. (See Stoner, Benjamin, assignor.)						
Rylands, Dan, Hope Glass Works, Stairfoot, near Barnsley, county of York, England. Internally-stoppered bottle	363,768	May 24	2414	626	39	953
Rylands, Dan, Hope Glass Works, Stairfoot, near Barnsley, county of York, England. Jar-closure	363,769	May 24	2415	626	39	953
Ryle, John, Paterson, N. J. Machine for stringing silk	373,486	Nov. 22	1833	488	41	839
Rysselberghe, François, et al. (See Selden, Charles, assignor.)						
Saale, Heinrich E. A., Chiswick, county of Middlesex, assignor of one-half to J. Pickering, London, England. Mixed paint	356,505	Jan. 25	1732	.....	38	353
Sabin, D. M. (See Elward, John H., assignor.)						
Sabin, Ransom, Shelby, Mich. Folding foot and sitz bath.....	357,040	Feb. 1	420	112	38	499
Sabourin, Peter, West Berkshire, Vt. Load-binder	371,792	Oct. 18	1504	388	41	313
Sachs, Moritz, Nuremberg, Bavaria, Germany. Holder for pencils	364,303	June 7	135	39	39	1114
Sack, Hugo, Duisburg, Germany. Rolling-mill	365,100	June 21	1307	346	39	1347
Sackett, Charles A., New York, N. Y. Wire foundation for plastering	372,818	Nov. 8	816	218	41	631
Sackett, Charles A., New York, N. Y. Wire lathing	372,819	Nov. 8	817	218	41	631
Sackett, Joseph S., New Haven, assignor to Sackett Manufacturing Company, Wallingford, Conn. Ruffling attachment for sewing-machines	364,138	May 31	2946	765	39	1059
Sackett Manufacturing Company. (See Sackett, Joseph S., assignor.)						
Sackett, Rufus W., Northampton, Mass. Desk	358,887	Mar. 8	707	174	38	1039
Sacks, Heinrich W., Round Top, Tex. Cotton-chopper	364,859	June 14	945	249	39	1272
Sadler, James, New York, N. Y. Carriage-axle.....	362,184	May 3	174	52	39	507
Safely, Robert E. L., and W. J. Williams, New Orleans, La. Change-making fare-box	374,851	Dec. 13	971	254	41	1245
Safety Car Heating and Lighting Company. (See Wilder, Francis M., assignor.)						
Safford, Albert M., Providence, R. I. Alphabet-case	362,665	May 10	854	233	39	639

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Safford, Alfred G., Washington, D. C., assignor of one-half to L. L. Bullock, Oakland, Cal. Electric telephony	366,190	July 5	596	161	40	113
Safford, George B. (See Frost, James R., assignor.)						
Sage, David C., and J. M. Burnap, Forrest, Ill. Cream-testing churn	370,822	Oct. 4	95	26	41	20
Sage, John C., Gainesville, Ga. Slope-grader and ditching-machine	370,089	Sept. 20	1120	297	40	1260
Sage, Morris L., Corning, N. Y. Pigeon-hole block for keeping checks and vouchers	363,852	May 31	2537	659	39	982
Sagendorph, Frank E., assignor of one-half to E. S. Lloyd, Chicago, Ill. Sheet-metal roof	357,041	Feb. 1	421	112	38	500
Sagendorph, Frank E., assignor of one-half to E. S. Lloyd, Chicago, Ill. Standing seam for sheet-metal roofs	357,634	Feb. 15	1307	343	38	683
Sagendorph, Frank E., assignor of one-half to E. S. Lloyd, Chicago, Ill. Metallic shingle	370,417	Sept. 27	1594	426	40	1358
Sagendorph, L. Lewis, <i>et al.</i> (See Keene, George C., assignor.)						
Sagendorph, Longley L. (See Keene, George C., assignor.)						
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Metallic roofing	355,888	Jan. 11	840	{ 220 221 }	{ 38 }	170
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Metallic roofing	355,889	Jan. 11	841	221	38	170
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Metallic roofing	358,888	Mar. 8	708	175	38	1039
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Metallic roofing	358,889	Mar. 8	709	175	38	1039
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Machine for making metallic weather boarding	362,117	May 3	92	28, 29	39	491
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Metallic roofing	362,118	May 3	93	29	39	491
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Sheet-metal corner-iron	364,044	May 31	2814	730	39	1035
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Flashing for metal roofing	364,304	June 7	137	39	39	1114
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Machine for making metallic roofing	365,540	June 28	1959	{ 510 511 }	{ 39 }	1485
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Metallic sheeting for siding and roofing	370,659	Sept. 27	1964	520	40	1426
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Cleat for metal roofing	372,931	Nov. 8	974	264	41	659
Sahler, Charles, assignor to F. A. Herbertz, Cologne, Prussia, Germany. Cupola smelting-furnace	371,367	Oct. 11	892	229	41	182
Sahles, John, <i>et al.</i> (See Detamble, Henry, assignor.)						
Sailor, David A., assignor to D. E. Jones, Little Rock, Ark. Apparatus for handling cotton	362,041	Apr. 26	2377	620	39	463
Saladee, Cyrus W., Shelton, Conn. Spring-gear for vehicles	355,341	Jan. 4	70	19	38	15
Saladee, Cyrus W., Cleveland, Ohio. Running-gear for wagons	375,428	Dec. 27	1795	469	41	1419
Salamon, Morris, New York, N. Y. Muff	369,817	Sept. 13	692	187	40	1174
Salfield, Carl D., San Francisco, Cal. Milk-boiler	370,974	Oct. 4	357	88	41	71
Salfield, Carl D., San Francisco, Cal. Culinary boiler	373,310	Nov. 15	1557	412	41	775
Sallade, Mary F., New York, N. Y. Atomizer	359,288	Mar. 15	1241	322	38	1146
Salmon, Charles H., <i>et al.</i> (See Cocker, Peter, assignor.)						
Salmon, Samuel. (See Cox and Salmon.)						
Salmon, William C., Waynesborough, Va. Steam-cooker	367,240	July 26	2049	552	40	412
Salsbury, Newton W., Hoboken, N. J. Drawing-board	364,731	June 14	735	196	39	1235
Salter, John, Jr., Chicago, Ill. Triplicate mirror	369,740	Sept. 13	584	159	40	1154
Saltenberger, George P., Hamburg, Ark. Machine for sharpening and gumming saws	374,758	Dec. 13	839	220	41	1220
Salter, Charles. (See Fee, John, assignor.)						
Saltery, Julius J., Boston, Mass., assignor to J. Justus, Hanover, Germany. Manufacture of briquettes	374,560	Dec. 6	567	.....	41	1156
Saltsman, Elijah. (See Saltsman, Irvin and E.)						
Saltsman, Irvin and E., Avoca, N. Y. Potato-digger	365,865	July 5	152	40	40	31
Salzgeber, Alfred, <i>et al.</i> (See Salzgeber, John C., assignor.)						
Salzgeber, Ida, executrix. (See Salzgeber, John C.)						
Salzgeber, John C., deceased; I. Salzgeber executrix and assignor to R. and A. Salzgeber, St. Louis, Mo. Coffee-roaster	365,321	June 21	1623	423	39	1406
Salzgeber, Richard, <i>et al.</i> (See Salzgeber, John C., assignor.)						
Salzman, Christian H., Chicago, Ill. Compressor for harvesting-machines	367,852	Aug. 9	753	{ 202 203 }	{ 40 }	603
Salzman, Christian H., Chicago, Ill. Butting-board for harvesters	369,741	Sept. 13	585	159	40	1154
Samelson, Moses, New York, N. Y. Manufacture of liquid extracts of coffee	358,300	Feb. 22	2252	.....	38	864
Samford, Asbury F., and C. H. Peevy, Calhoun, La. Cotton-chopper	362,541	May 10	664	187	39	606
Sample, John, Norwood, Mass. Pipe-wrench	364,961	June 14	1094	284	39	1299
Sampsell, James A., Elyria, Ohio. Carriage-bow	366,511	July 12	1028	280	40	204
Sampson, Charles H. and G. D., Minneapolis, Minn. Thill-holder	372,770	Nov. 8	733	{ 198 199 }	{ 41 }	616
Sampson, George D. (See Sampson, Charles H. and G. D.)						
Sampson, John H., assignor to C. J. Barnes, Chicago, Ill. Map or chart exhibitor	364,675	June 14	653	175	39	1219
Sampson, Luther B., Rochester, N. H. Car-coupling	371,368	Oct. 11	894	{ 229 230 }	{ 41 }	182
Sampson, Thomas, Boston, and F. H. Jealous; said Sampson assignor to Washington Mills Company, Lawrence, Mass. Apparatus for dyeing	369,996	Sept. 13	976	258	40	1227
Sampson, William L. (See Sherwood, Charles W., assignor.)						
Samson, William H., Medina, N. Y. Door-hanger	371,369	Oct. 11	895	230	41	183
Samuel, Edward. (See Wharton and Samuel.)						
Samuel, Edward, assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Construction of curve portions of cable railways	363,545	May 24	2094	{ 542 543 }	{ 39 }	891
Samuel, Edward, assignor to W. Wharton, Jr., and Company, Philadelphia, Pa. Permanent ways of railways	366,031	July 5	390	105	40	73
Samuel, Edward, and V. Angerer, assignors to W. Wharton, Jr., & Company, Philadelphia, Pa. Overhead-railway switch	364,548	June 7	493	133	39	1180
Samuels, Frank W. (See Bennett and Samuels.)						
Samuels, Marks, assignor of one-half to A. Abrams, New York, N. Y. Base or support for furniture	373,311	Nov. 15	1558	412	41	775
Sanborn, Franklin P., Standish, Me. Combined plow, harrow, and cultivator	371,370	Oct. 11	896	{ 230 231 }	{ 41 }	183
Sander, Gustav, Brunswick, Brunswick, Germany. Pneumatic action for organs	367,666	Aug. 2	463	{ 127 128 }	{ 40 }	539
Sanders, Addison G., Martinsville, Mo. Hoisting apparatus	366,740	July 19	1366	366	40	275

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Sanders, Eliza. (See Sanders, Louis, assignor.)						
Sanders, Frederic, St. Petersburg, Russia. Apparatus for removing sewage or other impurities.....	357,338	Feb. 8	858	{ 224 225 226 }	{ 38 }	589
Sanders, George A., <i>et al.</i> (See Newman, Nelson, assignor.)						
Sanders, George A., Caribou, Me. Log-elevator.....	368,975	Aug. 30	2360	627	40	936
Sanders, James M., and W. A. Stamats, Morrisville, Ohio; said Sanders assignor to said Stamats. Dish for table use.....	371,631	Oct. 18	1261	328	41	264
Sanders, Jason, Gordonsville, Ky. Draft attachment for harrows.....	371,479	Oct. 11	1046	272	41	212
Sanders, John, San Francisco, Cal. Embroidery-frame.....	372,707	Nov. 8	623	169	41	598
Sanders, John J., and F. I. Moreau, Utica, N. Y. Button.....	355,342	Jan. 4	72	19	38	15
Sanders, John P., Bartholomew County, Ind. Shock-fodder loading and unloading machine.....	368,243	Aug. 16	1324	349	40	717
Sanders, Louis, New York, assignor, by mesne assignments, to E. Sanders, Brooklyn, N. Y. Belt-buckle.....	362,666	May 10	854	233	39	639
Sanders, Theodor, Amsterdam, Netherlands. Car brake and starter.....	366,430	July 12	914	248	40	182
Sanderson, Frederick, Chicago, Ill. Combined door-plate and letter-slip alarm.....	356,233	Jan. 18	1344	354	38	272
Sandford, Mark E. (See Cornelius, Charles F., assignor.)						
Sandford, Mark E. (See Rink and Sandford.)						
Sandford, William B., assignor to Haxtun Steam Heater Company, Kewanee, Ill. Manufacture of square metal pipe.....	368,622	Aug. 23	1853	495	40	830
Sandford, William E., Belleville, N. J. Sash-balance.....	362,185	May 3	175	52	39	508
Sandoz, Jules F. (See Bonneau, Félicien P., assignor.)						
Sands, Augustine, assignor of one-half to J. J. Laughlin, Brooklyn, N. Y. Baby-carriage.....	366,741	July 19	1367	366	40	276
Sands, Jesse, Bridgeport, Conn. System of automatic fans.....	372,174	Oct. 25	2076	532	41	429
Sands, John U. S., Belmond, Iowa. Lumber measure and register.....	370,212	Sept. 20	1301	347	40	1294
Sands, Thomas, Nashua, N. H. Machine for making box-stuff.....	355,557	Jan. 4	342	91, 92	38	69
Sanduskey, Jacob. (See Lincoln, Charles E., assignor.)						
Sanford, Albert, Oshkosh, Wis. Ferrule for cant-hooks and the like.....	366,689	July 19	1296	347	40	263
Sanford, Asa J. (See Garrett and Sanford.)						
Sanford, Charles H., assignor to L. D. Brewster and H. T. Hoyt, Danbury, Conn. Newspaper-binder.....	357,042	Feb. 1	421	112	38	500
Sanford, Isaac R., Boston, Mass., assignor to Sanford Manufacturing Company, Portland, Me. Heel-protector.....	361,326	Apr. 19	1346	346	39	267
Sanford Manufacturing Company. (See Sanford, Isaac R., assignor.)						
Sanford, Marshal M., assignor of two-thirds to R. L. Brooks and J. Y. Covington, Forks-ville, La. Car-coupling.....	356,506	Jan. 25	1734	452	38	353
Sanford, Richard, Providence, R. I. Trousers-jack.....	358,128	Feb. 22	2017	531	38	818
Sangerhausen Actien Maschinenfabrik and Eisengiesserei, vorm. Hornung & Rabe. (See Weiss, Franz J., assignor.)						
Sangster, Hugh, assignor to U. N. Sangster, Buffalo, N. Y. Tea-kettle.....	356,895	Feb. 1	217	61	38	461
Sangster, Urania N. (See Sangster, Hugh, assignor.)						
Sanguineti, Paul, <i>et al.</i> (See Travis, William H., assignor.)						
Sanner, William M., assignor of one-half to G. Feelemyer, Baltimore, Md. Alarm gas-cock.....	355,558	Jan. 4	346	92	38	69
Sanor, George W., Ozark, Mo. Cider-mill.....	358,989	Mar. 8	844	{ 213 214 }	{ 38 }	1064
Sansbury, George T. (See Rogers, David J., assignor.)						
Sansom, R. H., <i>et al.</i> (See Crozier, William C., assignor.)						
Santee, Beulah B., <i>et al.</i> (See Santee, Ellis M., assignor.)						
Santee, Ellis M., assignor to B. B. Santee and W. Hamilton, Cortland, N. Y. Reclining-chair.....	364,732	June 14	736	196	39	1235
Sargeant, Alexander, Jr., assignor of one-half to G. D. Akers, Udall, Kans. Calculator for grain, &c.....	370,284	Sept. 20	1396	{ 374 375 }	{ 40 }	1313
Sargent, Alfred M. (See Sellers, William, assignor.)						
Sargent, Allan C. (See Sargent, Frederick G. and A. C.)						
Sargent, Allan C., Graniteville, Mass. Photographic camera.....	360,249	Mar. 29	2772	704	38	1450
Sargent, Bailey, <i>et al.</i> (See Titcomb, George O., assignor.)						
Sargent, Calvin J., Methuen, Mass. Door-securer.....	359,815	Mar. 22	2062	522	38	1313
Sargent, Charles E., St. Louis, Mo., assignor to Chester & Keller Manufacturing Company. Machine for shaping the shanks of ax-handles.....	369,262	Aug. 30	2741	{ 730 731 }	{ 40 }	1011
Sargent & Co. (See Gilfillan, William, assignor.)						
Sargent & Co. (See Sparks, William E., assignor.)						
Sargent & Company. (See Bradford, Purmort, assignor.)						
Sargent & Company. (See Gilfillan, William, assignor.)						
Sargent & Company. (See Shaw, John H., assignor.)						
Sargent & Company. (See Wright, Granville W., assignor.)						
Sargent, Edward P., Merrimac, Mass. Carriage-top prop.....	364,045	May 31	2815	730	39	1035
Sargent, Frederick G. and A. C., Graniteville, Mass. Fiber-drier.....	355,559	Jan. 4	347	92, 93	38	70
Sargent, George M., Chicago, Ill. Brake-shoe.....	374,272	Dec. 6	137	37	41	1073
Sargent, George M., Chicago, Ill. Brake-shoe.....	374,273	Dec. 6	138	37	41	1074
Sargent, George M., assignor to Congdon Brake Shoe Company, Chicago, Ill. Brake-shoe.....	370,090	Sept. 20	1122	297	40	1261
Sargent, Jacob J., <i>et al.</i> (See Suratt, Ralph M., assignor.)						
Sargent, James, Rochester, N. Y. Lifting apparatus.....	357,234	Feb. 8	723	{ 187 188 }	{ 38 }	564
Sargent, James F., Manchester, N. H. Chair-brace.....	359,891	Mar. 22	2187	{ 551 552 }	{ 38 }	1335
Sargent, James F., Manchester, N. H. Propelling and steering vessels.....	361,549	Apr. 19	1641	426	39	323
Sargent, John T. (See Vicken, George P., assignor.)						
Sargent, Samuel W. (See Sargent, Wesley W., assignor.)						
Sargent, Wesley W., Fitchburg, assignor of one-half to S. W. Sargent, Boston, Mass. Shackling device for street-cars.....	373,909	Nov. 29	2451	658	41	965
Sarsfield, Philip E., New York, N. Y. Coin-counter.....	357,635	Feb. 15	1308	343	38	683
Sater, Hans H., Dubuque, Iowa. Plow.....	365,866	July 5	154	40	40	31
Sattes, John, Butte City, Mont. Ter. Saw-filing machine.....	364,442	June 7	333	92	39	1152
Sauder, John M., Harrisburg, Pa. Reversible car-seat.....	371,371	Oct. 11	901	231	41	184
Sauer, Charles, Easton, Md. Stump-puller.....	366,032	July 5	390	{ 105 106 }	{ 40 }	73
Sauer, John G., New York, N. Y., assignor to himself and W. J. Wetter, Memphis, Tenn. Numbering-head for printing-presses.....	374,708	Dec. 13	771	{ 202 203 }	{ 41 }	1207
Saunders, Alexander, Yonkers, N. Y. Machine for cutting pipes or rods.....	368,012	Aug. 9	988	{ 265 266 }	{ 40 }	647
Saunders, Alexander, Yonkers, N. Y. Machine for cutting and screw-threading tubes, &c.....	372,490	Nov. 1	298	82, 83	41	527
Saunders, Alexander, assignor to D. Saunders' Sons, Yonkers, N. Y. Machine for cutting or screw-threading rods, tubes, &c.....	364,962	June 14	1095	285	39	1299

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Saunders, Charles, Lapeer, Mich. Stop mechanism for pump-motors	360,250	Mar. 29	2774	704	38	1450
Saunders, Charles, Cape Vincent, N. Y. Folding stacker	373,610	Nov. 22	2025	538	41	874
Saunders, David R. (See Welling, John E., assignor.)						
Saunders, George A., assignor to Climax Fuse Company, Avon, Conn. Machine for testing the water-proof quality of fuses for blasting	372,491	Nov. 1	302	83	41	528
Saunders, Ira J., Lynn, Mass. Button-attaching machine	371,632	Oct. 18	1261	328	41	264
Saunders, Robert C., Evinston, Va. Fence	363,685	May 24	2301	597	39	931
Saunders' Sons, D. (See Saunders, Alexander, assignor.)						
Saunders, Theodore, assignor of one-half to F. A. Hull, Danbury, Conn. Car heater and ventilator	372,989	Nov. 8	1061	283	41	675
Saubrey, George J., Columbus, Ohio. Folding stool	366,884	July 19	1556	417	40	311
Saurer, John, Orrville, Ohio. Bag-holder	363,172	May 17	1568	413	39	783
Sauter, Robert, Sulgen, Thurgau, Switzerland. Circular loom	365,101	June 21	1308	{ 346 347 540 541 542 }	{ 39 39 39 39 39 }	1348 410
Savage, Arthur W., New York, N. Y. Fiber-cleaning machine	361,838	Apr. 26	2076			
Savage, Arthur W., assignor to M. Hartley, New York, N. Y. Magazine-gun	366,512	July 12	1028	280	40	204
Savage, Benjamin O., Scotland Neck, N. C. Pea, bean, or rice harvester	371,372	Oct. 11	902	232	41	184
Savage, Frank, Wakelee, Mich. Harvester	357,102	Feb. 1	507	135	38	516
Savage, George W., Norwalk, Ohio. Machine for sharpening calks	374,811	Dec. 13	918	240	41	1235
Savage, Hiram R., Sardinia, N. Y. Cream-skimming device	361,720	Apr. 26	1907	494	39	379
Savage, J. B. (See Deebie, John, assignor.)						
Savage, Reavel, Baltimore, Md. Cigarette and match box	361,085	Apr. 12	993	251	39	189
Savaria, Amable, and J. B. Beauchemin, Springfield, Mass. Spring-seat for vehicles	362,788	May 10	1035	281	39	672
Savene, John W., assignor of one-half to M. F. Richards, Toledo, Ohio. Child's carriage	367,935	Aug. 9	876	238	40	626
Savery, James C., et al. (See Engle, Andrew, assignor.)						
Sawhill, Frank C., Pittsburg, Pa. Wrench	360,731	Apr. 5	477	122	39	89
Sawhill, Frank C., Midway, Pa. Pipe-wrench	364,549	June 7	494	133	39	1181
Sawtelle, Henry F., Leominster, Mass. Door-roller	364,963	June 14	1097	286	39	1300
Sawyer, Albert H., Weare, N. H. Sleigh	373,198	Nov. 15	1394	369	41	745
Sawyer, Andrew W., Providence, R. I. Cuff-holder	355,343	Jan. 4	73	20	38	15
Sawyer, Caleb K., assignor to Clinton Wire Cloth Company, Clinton, Mass. Heddle for looms	363,002	May 17	1336	353	39	735
Sawyer, Charles H., Minneapolis, Minn. Mop	371,633	Oct. 18	1264	328	41	265
Sawyer, Edmund. (See Lake and Sawyer.)						
Sawyer, Frank A., Portland, Me. Lamp-post and lamp	372,334	Nov. 1	71	21, 22	41	445
Sawyer, Lemuel B., Boston, Mass. Paving-block	360,364	Mar. 29	2936	746	38	1479
Sawyer, Nowell F., Bradford, Mass. Steam-boiler	360,053	Mar. 29	2460	626	38	1393
Sawyer, Reuben A., and W. T. Guy, Columbus, Ohio. Fence-post	363,853	May 31	2537	659	39	982
Sawyer Spindle Company. (See Logan, Thomas H., assignor.)						
Sawyer Spindle Company. (See Sherman, Albert R., assignor.)						
Sawyer Spindle Company. (See Wood, Aurin, assignor.)						
Sawyer, Uriah P., Camilla, Ga. Seed-conveyer	359,635	Mar. 22	1792	456	38	1264
Sawyer, William H., Providence, R. I. Removing broken tool-points from drawing-die plates	357,860	Feb. 15	1632	424	38	743
Sawyer, William H., Providence, R. I. Terminal for telegraph lines or cables	359,816	Mar. 22	2064	523	38	1313
Sawyer, William H., Providence, R. I. Annealing wire	360,732	Apr. 5	478	122	39	89
Sawyer, William H., Providence, R. I. Manufacture of drills	361,452	Apr. 19	1519	393	39	299
Sawyer, William H., Providence, R. I. Device for jewelers wire-drawing dies	362,789	May 10	1036	282	39	672
Sawyer, William H., Providence, R. I. Wire-drawing machine	367,667	Aug. 2	469	{ 128 129 }	{ 40 40 }	539
Saxton, Augustus C., Brooklyn, assignor to G. S. Bracher and J. Van Gelder, New York, N. Y. Method of and machine for forming over-edge stitching	358,574	Mar. 1	241	56, 67	38	949
Saxton & Osgood. (See Osgood, J. Lester, assignor.)						
Sayles, Frederic C., Pawtucket, and O. E. Drown, Lincoln, R. I. Machine for singeing fabrics	373,856	Nov. 29	2375	{ 638 639 }	{ 41 41 }	951
Sayles, Frederic C., Pawtucket, and O. E. Drown, Lincoln, R. I. Apparatus for singeing laces, cloth, &c.	373,857	Nov. 29	2377	639	41	951
Saylor, F. P. (See Zeller, Thomas B., assignor.)						
Saylor, Francis H., Philadelphia, Pa. Turn-table	356,162	Jan. 18	1248	330	38	254
Scales, William S., Somerville, Mass. Controlling device for clocks	368,689	Aug. 23	1949	517	40	849
Scales, William S., Somerville, Mass., assignor to Synchronous Time Company. Electric controlling and regulating device for pendulums	366,513	July 12	1033	281	40	205
Scanlon, Kate, New York, N. Y. Poultrie-pan	370,561	Sept. 27	1815	483	40	1397
Scannell, David. (See Roed, Erik O., assignor.)						
Scarff, Mark T., assignor of one-half to T. W. Bean, Michigan City, Dak. Ter. Copying-press	367,012	July 19	1713	461	40	340
Scarffe, William, Brooklyn, N. Y. Bell for car-horses	374,326	Dec. 6	224	59	41	1088
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Wire fence	355,560	Jan. 4	348	93	38	70
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Wire-cloth	355,561	Jan. 4	349	93	38	70
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Loom-shuttle	359,545	Mar. 15	1626	416	38	1218
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Loom-shuttle	359,546	Mar. 15	1627	417	38	1219
Scarles, Benjamin, assignor of one-half to Clinton Wire Cloth Company, Clinton, Mass. Galvanizing and tinning wire-cloth, wire-netting, &c.	361,550	Apr. 19	1642	426	39	323
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Loom	364,860	June 14	946	250	39	1272
Scarles, Benjamin, assignor to Clinton Wire Cloth Company, Clinton, Mass. Wire-cop-winding machine	364,861	June 14	949	250	39	1273
Scarles, Benjamin, assignor to himself and C. Swinscoe, Clinton, Mass. Textile fabric	370,091	Sept. 20	1123	298	40	1261
Scarlett, Oscar A. (See Schulthorp, Walter J., assignor.)						
Scarr, Percy R. (See Abbott, Noel, assignor.)						
Scarritt, Sanford G., St. Louis, Mo. Foot-rest	371,373	Oct. 11	904	232	41	184
Scarritt, Sanford G., and J. H. Mosley, St. Louis, Mo. Reclining-chair	369,558	Sept. 6	334	92	40	1098
Scarritt, Sanford G., and J. H. Mosley, St. Louis, Mo.; said Mosley assignor to said Scarritt. Reclining and reversible chair	365,025	June 14	1182	310	39	1314
Scarritt, Sanford G., and J. H. Mosley, St. Louis, Mo.; said Mosley assignor to said Scarritt. Tilting and reclining chair	366,514	July 12	1035	281	40	205
Scates, E. Evans. (See Cutts and Scates.)						
Scava, Horace M. (See Tait, William C., assignor.)						
Schaaf, George P., Baltimore, Md. Combined chair and step-ladder	365,637	June 28	2102	548	39	1511
Schaal, Eugen, Stuttgart, Württemberg, Germany. Manufacture of resin-acid ethers. (Re-issue)	10,823	Mar. 29	2991	.....	38	1488
Schaal, Eugen, Stuttgart, Württemberg, Germany. Making ethers from petroleum	366,885	July 19	1557	.....	40	311
Schaal, Eugen, Feuerbach, near Stuttgart, Württemberg, Germany. Manufacture of resin-acid ethers	368,494	Aug. 16	1680		40	787

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Schack, Sarah J., Chicago, Ill. Stocking-supporter	367,448	Aug. 2	124	36	40	475
Schad, Anton, Louisville, Ky. Combined shovel and hoe	368,013	Aug. 9	990	266	40	648
Schad, Barnhard, assignor to H. Phelps and J. P. Schad, Batavia, N. Y. Wheel	355,344	Jan. 4	74	20	38	15
Schad, Barnhard, assignor of two-thirds to J. C. and F. J. Shults and L. E. Smith, Batavia, N. Y. Vehicle-hub	370,285	Sept. 20	1399	375	40	1313
Schad, Henry. (See Lander, George, assignor.)						
Schad, John P., <i>et al.</i> (See Schad, Barnhard, assignor.)						
Schaefer, Edward. (See Meyrose and Schaefer.)						
Schaefer, Harry H., Point du Chene, New Brunswick, Canada. Marine boat-slide	357,790	Feb. 15	1541	401	38	725
Schaefer, John C., assignor to Schaefer Safety Valve Company, New York, N. Y. Safety-valve for beer-casks	359,892	Mar. 22	2188	552	38	1335
Schaefer, Philip L. J., assignor to himself and H. E. M. Wiese, Kansas City, Mo. Salve ..	370,823	Oct. 4	97	.....	41	21
Schaefer Safety Valve Company. (See Schaefer, John C., assignor.)						
Schaefer, William G., Mankato, Kans. Curry-comb	368,690	Aug. 23	1951	517	40	849
Schaefer, William G., Gladbrook, Iowa. Halter	370,163	Sept. 20	1240	329	40	1283
Schaeffer, Jacob, assignor of one-half to A. Giesler, Dayton, Ohio. Saw-file guide	356,082	Jan. 11	1128	298	38	226
Schaffer, John, Kirkwood, Mo. Tobacco-cutter	355,415	Jan. 4	162	42	38	33
Schaffer, John P., Pittsburg, Pa. Vapor-pan for hot-air furnaces	361,551	Apr. 19	1644	426	39	323
Schaffer, William E., Carlisle, Ind. Machine for building fences	371,219	Oct. 11	689	177	41	144
Schaffhauser, Andrew. (See Parker, Adelbert E., assignor.)						
Schaffstädt, Heinrich, Giessen, and A. Bergen, Höchst-on-the-Main, Germany. Lubrica-						
tor	362,667	May 10	855	234	39	639
Schakat, Eduard, Los Angeles, Cal. Cask and method of preventing the same from leak-						
ing	364,676	June 14	654	175	39	1219
Schandein, Emil, Milwaukee, Wis. Box-fastener	361,327	Apr. 19	1347	347	39	267
Schandein, Emil, Milwaukee, Wis. Box-fastener	362,920	May 10	1211	323	39	705
Schaper, Kasper H., Linn's Mills, Mo. Automatic grain-scale	364,964	June 14	1098	286	39	1300
Schapiro, Aisik, Berlin, Germany. Nut-lock	374,274	Dec. 6	139	37	41	1074
Scharbach, Peter, Silverton, Oreg. Wheel-cultivator	363,686	May 24	2302	598	39	931
Scharlé, Nicolas, and J. Himmes, Chicago, Ill. Railway-track scale	359,636	Mar. 22	1793	456	38	1264
Scharlin, John A., Santa Barbara, Cal. Lamp-extinguisher	360,328	Mar. 29	2879	733	38	1470
Scharow, Otto. (See Petzold, Karl A., assignor.)						
Schastey, Frank C., New York, N. Y. Curtain pole and fixture	365,203	June 21	1447	382	39	1374
Schau, Phillip P., Cooper, Mich. Thill-coupling	362,186	May 3	176	52	39	508
Schau, William, Newaygo, Mich. Sled	364,046	May 31	2816	730	39	1035
Schau, William, Newaygo, Mich. Sleigh	375,003	Dec. 20	1218	318	41	1299
Schaubel, Charles, San Francisco, Cal. Embroidery-frame	362,230	May 3	236	68	39	519
Schauber, George K., assignor to himself and C. A. Herr, Osborn, Ohio. Crock-carrier	357,339	Feb. 8	859	226	38	590
Schaufuss, Ludwig W., Dresden, Saxony, Germany. Weather-vane	375,201	Dec. 20	1496	392	41	1353
Schaumleffel, John A., Elm Grove, Tex. Cotton chopper and cultivator	356,853	Feb. 1	156	41	38	451
Schedin, Alfred, Wheaton, Minn. Bag-holder	373,199	Nov. 15	1395	370	41	745
Scheer, Charles. (See Reeve, Thomas, Jr., assignor.)						
Scheibler, Fritz, Burtseid, near Aix-la-Chapelle, Prussia, Germany. Molding boiled su-						
gar-mass	364,550	June 7	495	133	39	1181
Scheider, Paul, Zittau, Oberlausitz, Saxony, Germany. Clip for cloth-stretching ma-						
chines	366,431	July 12	917	249	40	182
Scheidemann, Ferdinand L., and F. W. Bender, Philadelphia, Pa. Hinge	373,611	Nov. 22	2026	539	41	875
Scheidig, Frederick, New York, N. Y. Spectacle-joint	367,552	Aug. 2	286	80	40	505
Scheidig, Frederick, New York, N. Y. Opera-glass	370,975	Oct. 4	358	88, 89	41	71
Scheidl, Charles, assignor to Phoenix Bridge Company, Phoenixville, Pa. Subway	361,086	Apr. 12	994	{ 251 252 }	{ 39 39 }	190
Scheier, Frank, Kansas City, Mo. Water-closet	367,065	July 26	1789	483	40	363
Schelberg, Helmer C., <i>et al.</i> (See Wilson, George W., assignor.)						
Schell, Abraham, <i>et al.</i> (See Hirsch Feodor, assignor.)						
Schellenbaum, John C., Portland, Oreg. Lubricator	372,708	Nov. 8	623	170	41	598
Schelp, Fred., Jr., assignor of one-half to G. H. Schelp, Ballwin, Mo. Vehicle-gear	358,410	Feb. 22	2400	638	38	892
Schelp, George H. (See Schelp, Fred., Jr., assignor.)						
Schemmel, August, Milwaukee, Wis. Package for confections, &c.	355,721	Jan. 11	591	154	38	126
Schenck, Garret, Bangor, Me. Process of and apparatus for charging liquids with gases ..	363,173	May 17	1569	413	39	783
Schenck, John P., Matteawan, N. Y. Speculum	361,087	Apr. 12	995	252	39	190
Schenck, John P., Matteawan, N. Y. Speculum-syringe	365,542	June 28	1963	511	39	1486
Schenck, Remsen, New York, N. Y. Sash-fastener	362,668	May 10	857	234	39	640
Schenck, Remsen, New York, N. Y. Sash attachment	364,965	June 14	1100	286	39	1300
Schenek, Stefan. (See Farbaký and Schenek.)						
Schenkel, John H. (See Magruder, Richard B., assignor.)						
Schenkenberg, Frederick, Fort Atkinson, Wis. Checkrein-carrier and blinder-stay for						
bridles	368,244	Aug. 16	1325	349	40	718
Scheppers, Edward and E., Philadelphia, Pa. Making fabrics from coarse long-staple wool						
or hair	362,317	May 3	343	.....	39	540
Scheppers, Edward and E., Philadelphia, Pa. Manufacture of textile fabrics	362,318	May 3	344	.....	39	540
Scheppers, Emile. (See Scheppers, Edward and E.)						
Scherbel, Jean. (See Remus, Theodor, assignor.)						
Scherber, John F., assignor of one-fourth to H. G. Zell, Buffalo, N. Y. Zincographic-print-						
ing machine	362,320	May 3	345	95	39	541
Scheuer, Herman and I., New York, N. Y. Satchel	369,472	Sept. 6	220	62	40	1075
Scheuer, Isaac. (See Scheuer, Herman and I.)						
Scheuer, Simon, New York, N. Y. Fan	361,187	Apr. 12	1152	290	39	219
Schiefer, William D. (See Poulson, Britton, assignor.)						
Schiele & Company, Lewis. (See Warren, Sarah M., assignor.)						
Schieren, Charles A. (See Brock, Fenelon B., assignor.)						
Schieren, Charles A., Brooklyn, N. Y. Link driving-belt	355,890	Jan. 11	842	221	38	170
Schieren, Charles A., Brooklyn, N. Y. Driving-belt	358,790	Mar. 1	538	132	38	1004
Schieren, Charles A., Brooklyn, N. Y. Machine for breaking and softening rawhides	363,546	May 24	2094	543	39	892
Schiess, Otto, New York, N. Y. Automatic vending-machine	372,175	Oct. 25	2078	{ 532 533 }	{ 41 41 }	430
Schiffer, Frank C., <i>et al.</i> (See Chambers, Daniel T., assignor.)						
Schiffer, J. B. (See Culver, Willard B., assignor.)						
Schiller, John G., Youngstown, Ohio. Wire fence	363,003	May 17	1337	353	39	735
Schiller, Theodor, <i>et al.</i> (See Noll, Otto, assignor.)						
Schilling, Augustin, assignor to W. H. Wilmarth & Co., Attleborough, Mass. Wire chain ..	365,543	June 28	1964	512	39	1486
Schillinger, Frederick. (See Miller and Schillinger.)						
Schillo, Conrad, Canton, Ohio. Bayonet	361,328	Apr. 19	1348	347	39	267
Schiltz, Mathias V., and E. Quack, Cologne, Germany; said Quack assignor to said Schiltz.						
Igniting apparatus for gas and petroleum engines	366,346	July 12	815	219	40	161

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Schimper & Co., William. (See Blust, Charles, assignor.)						
Schimper & Co., William. (See Debacher, Robert E., assignor.)						
Schimper & Co., William. (See Oldenbusch, Ernest A., assignor.)						
Schimper, Frederick. (See Zoller and Schimper.)						
Schimper, Rudolph J. (See Wandrey and Schimper.)						
Schindly, John H., assignor to himself and C. Marshall, Luthersburg, Pa. Stump-puller.	365,204	June 21	1449	382	39	1375
Schirmacher, Fritz, Forsthaus-Göritz, Germany. Trigger mechanism for fire-arms	360,733	Apr. 5	479	122	39	89
Schirmer, Wilhelm, New York, N. Y. Safety-bridge for car-platforms	363,485	May 24	2006	523	39	876
Schlag, J. J. Henry, Shaler, Pa. Heat-radiating furnace	367,553	Aug. 2	286	81	40	505
Schlager, Walter L., Moosic, Pa. Car-coupling	375,460	Dec. 27	1837	481	41	1428
Schlegelmilch, Ernst, Suhl, Prussia, Germany. Gun-lock	356,378	Jan. 18	1546	406	38	311
Schleicher, Adolphus W., assignor to Schleicher, Schumm & Co., Philadelphia, Pa. Connecting engines and dynamos	367,241	July 26	2050	553	40	412
Schleicher, Edward G., <i>et al.</i> (See Schleicher, Gustav, assignor.)						
Schleicher, Gustav, assignor, by mesne assignments, of one-half to E. G. and J. C. Schleicher, Mount Vernon, N. Y. Electrical burglar-alarm	357,416	Feb. 8	965	254	38	610
Schleicher, John C., <i>et al.</i> (See Schleicher, Gustav, assignor.)						
Schleicher, Schumm & Co. (See Schleicher, Adolphus W., assignor.)						
Schleier, Theodore M., Nashville, Tenn. Convertible chair and table	371,099	Oct. 4	525	133	41	104
Schleip, Louis C. (See Pennie, Henry, assignor.)						
Schlener, Adolph G., Minneapolis, Minn. Breast-strap slide	356,163	Jan. 18	1250	330	38	254
Schlesinger, Ferdinand. (See Gerard, John J., assignor.)						
Schlesinger, William M., Philadelphia, Pa. Electric car-brake	370,894	Oct. 4	223	57	41	43
Schlicht, Paul J., <i>et al.</i> (See Clague, William H. H., assignor.)						
Schlichte, Arnold W., New York, N. Y. Longitudinally-expanding roller	374,709	Dec. 13	773	203	41	1207
Schlieter, Isaac, <i>et al.</i> (See Congdon, Albert F., assignor.)						
Schloer, Frank R., Baltimore, Md. Gage attachment for scroll-sawing machines	373,686	Nov. 22	2134	572	41	897
Schlotterbeck, Augustus G., Portland, Me. Support for electric lights	362,399	May 3	454	126	39	564
Schlouch, Henry R., <i>et al.</i> (See Diehl and Weiss, assignors.)						
Schmackelsen, Jens, Altona, Prussia, Germany. Fountain-pen	364,772	June 14	813	214	39	1247
Schmalz, John E., New York, N. Y. Machine for wrapping cigar-bunches	364,773	June 14	814	214	39	1247
Schmalz, John E., New York, N. Y. Machine for cutting cigar-wrappers	364,774	June 14	817	215	39	1248
Schmalz, John E., New York, N. Y. Machine for finishing and trimming cigars	364,775	June 14	819	216	39	1248
Schmeiser, Henry J., Burlington, Iowa. Tongueless cultivator	357,235	Feb. 8	724	188	38	564
Schmid, Albert. (See Westinghouse and Schmid.)						
Schmid, Albert. (See Westinghouse, Byllesby, Shallenberger, and Schmid.)						
Schmid, Albert. (See Westinghouse, Byllesby, Shallenberger, Schmid, and Hartley.)						
Schmid, Albert, Allegheny, assignor to G. Westinghouse, Jr., Pittsburg, Pa. Electrical converter	366,347	July 12	818	220	40	161
Schmid, Albert, assignor to Westinghouse Electric Company, Pittsburg, Pa. Armature-core for dynamo-electric machines	361,896	Apr. 26	2168	561	39	427
Schmid, Albert, Allegheny, and J. C. Beckfeld, Reserve, Pa. Gas-engine	362,187	May 3	177	53 54	39	508
Schmid, Albert, Allegheny, and J. C. Beckfeld, Reserve, Pa. Gas-engine	371,793	Oct. 18	1505	{ 388 } { 389 }	{ 41 }	314
Schmid, Albert, Allegheny, and J. C. Beckfeld, Reserve, Pa. Gas-engine. (Reissue.)	10,878	Nov. 1	538	{ 147 } { 148 }	{ 41 }	573
Schmid, Augustus F., Brooklyn, N. Y. Carding-machine	367,853	Aug. 9	755	203	40	603
Schmid, William, Brooklyn, N. Y. Photographic camera	369,818	Sept. 13	693	187	40	1174
Schmidt, Carl M., Berlin, Germany, assignor to F. Richter, Lille, France. Making water-lines on paper	373,803	Nov. 22	2299	615	41	928
Schmidt, Christian A. (See Steinecke, Samuel, assignor.)						
Schmidt, Frederick E., Brooklyn, N. Y. Button-hole sewing-machine	372,709	Nov. 8	624	{ 170 } { 171 }	{ 41 }	598
Schmidt, Friedrich E., Brooklyn, N. Y. Button-hole cutter for sewing-machines	369,473	Sept. 6	221	62	40	1075
Schmidt, Gustav, Brooklyn, and J. Christ, New York, N. Y. Automatic pressure-regulator	369,474	Sept. 6	222	62	40	1075
Schmidt, Gustave, Cincinnati, Ohio. Hame-tug	367,066	July 26	1792	483	40	363
Schmidt, Henry, <i>et al.</i> , administrators. (See Stortz, John.)						
Schmidt, Julius, Hagen, Westphalia, Prussia, Germany. Barbed fence-strip	368,014	Aug. 9	991	266	40	648
Schmidt, Louis A., Brooklyn, N. Y. Ventilating head-support or pillow	364,377	June 7	231	65	39	1132
Schmidt, Max C., New York, N. Y. Lock for pocket-book or satchel frames	363,174	May 17	1571	414	39	783
Schmidt, Theodore, assignor of one-half to H. H. Laubach, Dayton, Ohio. Oyster-bucket	358,411	Feb. 22	2401	638	38	892
Schmidt, Theodore F. W., assignor of one-half to Laubach & Iddings, Dayton, Ohio. Paper package-case	366,886	July 19	1559	418	40	311
Schmidt, Theodore F. W., assignor of one-half to Laubach & Iddings, Dayton, Ohio. Paper mail-cover	369,559	Sept. 6	336	93	40	1098
Schmidt, Theodore F. W., assignor of one-half to Laubach & Iddings, Dayton, Ohio. Paper-package fastening	371,098	Oct. 4	525	132	41	104
Schmidt, Wilhelm, Brunswick, Germany. Steam-engine	369,033	Aug. 30	2442	648	40	951
Schmiedl, Anton, Philadelphia, Pa., assignor of one-half to E. B. Jordan, Brooklyn, N. Y. Machine for beading and hammering leather	359,893	Mar. 22	2189	{ 552 } { 553 }	{ 38 }	1335
Schmiedl, Anton, Philadelphia, Pa., assignor to E. B. Jordan, Brooklyn, N. Y. Machine for marking leather	367,668	Aug. 2	472	130	40	540
Schmitt, Augusté F., New Orleans, La. Apparatus for distilling wood	367,669	Aug. 2	473	{ 130 } { 131 }	{ 40 }	540
Schmitt, Felix F., Chicago, Ill. Lamp-candle	370,562	Sept. 27	1816	483	40	1397
Schmitt, Frederick E., Milwaukee, Wis. Cork-extracting machine	360,734	Apr. 5	480	122	39	90
Schmitt, George, New York, N. Y. Extension-table	359,817	Mar. 22	2065	523	38	1314
Schmitt, Joseph. (See Schrader and Schmitt.)						
Schmitt, Karl, Zittau, Saxony, Germany. Velocipede	371,374	Oct. 11	905	233	41	184
Schmitt, Rudolf, Dresden, Saxony, assignor to F. Von Heyden, Nachfolger, Radebeul, near Dresden, Germany. Manufacture of oxychinoline carbonates	355,842	Jan. 11	765	.....	38	156
Schmittthener, Ludwig S., Darmstadt, Germany. Chessman	361,721	Apr. 26	1908	{ 494 } { 495 }	{ 39 }	380
Schneck, Hiram, Balliettsville, Pa. Bag-holder	368,015	Aug. 9	992	266	40	648
Schneider, Christian G., Washington, D. C. Soldering-iron	369,617	Sept. 6	423	119	40	1115
Schneider, Harry M. (See Poulson and Schneider.)						
Schneider, Karl, Jersey City, N. J. Distance-instrument	367,067	July 26	1793	483	40	364
Schneider, Theodor, Dresden, Germany. Card-distributor	372,389	Nov. 1	158	45	41	499
Schneider, William E., Washington, D. C. Shutter for photographic cameras	363,547	May 24	2096	{ 543 } { 544 }	{ 39 }	892
Schneiderlochner, Antony, Millvale, and F. Schneiderlochner, Pittsburg, Pa. Machinery for the manufacture of eye-bars	361,188	Apr. 12	1153	{ 291 } { 292 }	{ 39 }	219
Schneiderlochner, Frank. (See Schneiderlochner, Antony and F.)						
Schneidt, August L., Wauwatosa, Wis. Machine for matting hair	360,918	Apr. 12	742	195	39	144

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Schnell, Adam, Hartsell's, Ala. Plow and cultivator.....	359,181	Mar. 8	1084	282	38	1111
Schneller, George O., Ansonia, Conn. Hinge and tip for twin-wire stays for bustles.....	373,687	Nov. 22	2136	572	41	898
Schneller, George O., Ansonia, Conn. Bustle.....	373,688	Nov. 22	2137	572	41	898
Schneller, George O., Ansonia, Conn. Bustle.....	373,689	Nov. 22	2139	573	41	898
Schnepf, John. (See Poole and Schnepf.)						
Schnerring, Frederick, <i>et al.</i> (See Marhoeffer, John, assignor.)						
Schniedewend & Lee Co. (See Wellman, Henry F., assignor.)						
Schnitzler, Ignatz, and J. Deutsch, New York, N. Y. Shirt-lacing.....	364,047	May 31	2817	731	39	1035
Schnoor, August, Oakland, Cal. Saw-setting machine.....	363,854	May 31	2538	660	39	982
Schnurmann, Heinrich, and G. Closs, Unter Kocher, near Aalen, Württemberg, Germany. Apparatus for manufacturing sulphite-cellulose.....	360,484	Apr. 5	127	31	39	24
Schoeller, Celia C., Pittsburg, Pa. Alternative remedy.....	370,976	Oct. 4	360	.....	41	72
Schoellkopf Aniline and Chemical Company (See Vollbrecht and Mensching, assignors.)						
Schoen, Charles T., assignor to C. Scott Spring Company, Philadelphia, Pa. Die for making car-spring plates.....	368,428	Aug. 16	1576	421	40	769
Schoen, Charles T., assignor to J. E. and G. K. Cummings, Philadelphia, Pa. Combined superheater and hydrocarbon-burner.....	363,086	May 17	1447	383	39	758
Schoenecker, John W., Washington, D. C. Combined bathing-closet and apparatus for administering steam, hot air, &c., baths.....	363,423	May 24	1906	501	39	855
Schoening, Charles J., Chicago, Ill. Flanged wheel for railways or roads.....	361,027	Apr. 12	914	{ 231 } 232	{ 39 } 39	173
Schoening, Charles J., Chicago, Ill. Folding billiard-table.....	364,677	June 14	655	175	39	1220
Schoening, Charles J., Chicago, Ill. Bicycle.....	366,690	July 19	1297	347	40	263
Schoening, Herman, Antwerp, Belgium. Necktie-holder.....	358,990	Mar. 8	845	214	38	1065
Schoepf, George B., Madison, Minn. Road-vehicle.....	364,862	June 14	950	250	39	1273
Schoepfle, Fred, Sandusky, Ohio. Boring-machine.....	370,895	Oct. 4	225	57	41	44
Schofield, Albert B., Jersey City, N. J. Seal for car-doors.....	373,200	Nov. 15	1396	370	41	746
Schofield, Albert B., Jersey City, N. J. Seal-press.....	373,201	Nov. 15	1399	370	41	746
Schofield, Charles E. (See Nebergall and Schofield.)						
Schofield, Daniel, Camden, N. J. Car-coupling.....	369,965	Sept. 13	928	246	40	1218
Schofield, James D., Rogers, Tex. Cotton-chopper.....	375,429	Dec. 27	1796	470	41	1420
Schofield, Thomas, London, England. Apparatus for elevating and discharging grain.....	358,075	Feb. 22	1934	510	38	805
Scholder, Edward F., Hepler, Kans. Hay-stacker.....	361,722	Apr. 26	1909	495	39	380
Scholes, Thomas, Chicago, Ill. Coal-ash sifter.....	366,887	July 19	1559	418	40	311
Scholfeld, Joseph J. (See Scholfeld, Socrates, assignor.)						
Scholfeld, Socrates, assignor to himself and J. J. Scholfeld, Providence, R. I. Machine for inspecting yarn or thread.....	370,713	Sept. 27	2044	{ 543 } 544	{ 40 } 40	1440
Scholl, John L. (See Albright, John W., assignor.)						
Scholl, Joseph, <i>et al.</i> (See Parsons, Paul J., assignor.)						
Schollars, Isaac E., Bellamy, Mo. Knife.....	365,541	June 28	1962	511	39	1485
Schollhorn, William, New Haven, Conn. Coach-latch.....	371,375	Oct. 11	907	233	41	185
Schollian, Emanuel, and T. Kavanaugh, Jr., Dubuque, Iowa. Elevator.....	364,863	June 14	952	251	39	1273
Schön, Joseph, Reichenbach, Silesia, Prussia, Germany. Manufacture of infrangible doll or puppet heads.....	361,453	Apr. 19	1520	.....	39	299
Schonacker, John E., Dayton, assignor to J. W. Cummings, Springfield, Ohio. Arm-rest for books.....	358,698	Mar. 1	414	100	38	981
Schönneweg, Hermann, Dudweiler, near Saarbrücken, Prussia, Germany. Explosive.....	371,376	Oct. 11	908	.....	41	185
Schönthaler, Johann G., Trenton, N. J. Horseshoe-holder.....	371,634	Oct. 18	1265	328	41	265
Schooley, George W. (See Hawkins, Charles H., assignor.)						
Schooley, William R., Trenton, N. J. Ice-breaking boat.....	374,205	Dec. 6	53	13, 14	41	1057
Schoonmaker, Daniel, assignor of one-half to P. Wilson's Sons & Company, Cincinnati, Ohio. Hame.....	368,856	Aug. 23	2185	580	40	893
Schoonmaker, Edward T., assignor of one-third to F. A. Thurston, New York, N. Y. Chain-bolt.....	356,556	Jan. 25	1808	473	38	367
Schoonmaker, Jacob H., Brooklyn, N. Y. Device for exhibiting merchandise.....	360,114	Mar. 29	2570	653	38	1412
Schoonmaker, James H., assignor of two-thirds to H. D. Morse and N. C. Gault, Winona, Minn. Lightning-rod.....	364,605	June 7	562	151	39	1194
Schoonover, Leon D., Woodhull, N. Y. Peg-cutting machine.....	369,966	Sept. 13	929	247	40	1218
Schott, Charles, Nashville, Tenn. Plant and tree protector.....	356,164	Jan. 18	1250	331	38	254
Schott, Charles H. (See Schott, John C., assignor.)						
Schott, Charles H., <i>et al.</i> (See Thurston, Horace, assignor.)						
Schott, John C., <i>et al.</i> (See Thurston, Horace, assignor.)						
Schott, John C., Providence, R. I. Button-making machine.....	361,088	Apr. 12	996	253	39	190
Schott, John C., Providence, R. I., assignor to himself and C. H. Schott, Brooklyn, N. Y. Button-making machine.....	375,004	Dec. 20	1219	{ 318 } 319	{ 41 } 41	1300
Schrader, Adolph, Chicago, Ill. Bread.....	373,690	Nov. 22	2141	.....	41	898
Schrader, George, New York, and J. Schmitt, Brooklyn, N. Y., assignors to A. Schrader & Son. Clamp for hose-coupling.....	356,083	Jan. 11	1129	298	38	226
Schrader, Hermann E., Hamburg, Germany. Bottle-filling machine.....	358,575	Mar. 1	244	57	38	949
Schrader & Son, A. (See Schrader and Schmitt, assignors.)						
Schrader, Theodor O. L., New York, N. Y. Pencil sharpener and point protector.....	362,669	May 10	857	234	39	640
Schrader, Theodor O. L., New York, N. Y. Pencil.....	372,710	Nov. 8	626	171	41	599
Schrag, Philip, assignor to E. Faber, Port Richmond, N. Y. Lead-pencil.....	362,319	May 3	344	95	39	541
Schramm, Henry G., Camden, N. J. Smoking-pipe.....	362,119	May 3	95	29	39	491
Schrankel, John, assignor to L. Schrankel, Lancaster, N. Y. Pump.....	368,016	Aug. 9	992	267	40	648
Schrankel, Louisa. (See Schrankel, John, assignor.)						
Schreiber, Moritz, Fürstenberg, near Frankfort-on-the-Oder, Prussia, Germany. Tempering lamp-chimneys.....	363,087	May 17	1449	.....	39	758
Schreidt, Frank., assignor to Schreidt & Miller Company, Mansfield, Ohio. Machine for rolling carriage-top irons.....	372,711	Nov. 8	628	171	41	599
Schreidt, Frank., assignor to Schreidt & Miller Company, Mansfield, Ohio. Machine for sawing carriage-top irons.....	373,202	Nov. 15	1401	370	41	746
Schreidt, Frank., assignor to Schreidt & Miller Company, Mansfield, Ohio. Machine for filing carriage-top irons.....	373,203	Nov. 15	1403	371	41	746
Schreidt, Frank., assignor to Schreidt & Miller Company, Mansfield, Ohio. Machine for drilling carriage-top irons.....	373,204	Nov. 15	1406	371	41	747
Schreidt, Frank, assignor to Schreidt & Miller Company, Mansfield, Ohio. Machine for upsetting carriage-irons.....	373,612	Nov. 22	2026	539	41	875
Schreidt, Frank, assignor to Schreidt & Miller Company, Mansfield, Ohio. Machine for rolling carriage-top irons.....	373,613	Nov. 22	2030	540	41	875
Schreidt, Frank, assignor to Schreidt & Miller Company, Mansfield, Ohio. Machine for upsetting carriage-top irons.....	373,614	Nov. 22	2031	{ 540 } 541	{ 41 } 41	875
Schreidt & Miller Company. (See Schreidt, Frank, assignor.)						
Schreiner, Henry, Chicago, Ill. Heating apparatus for stoves.....	369,411	Sept. 6	138	40	40	1058

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Schrenk, Jakob. (See Malony and Schrenk.)						
Schreuder, Jens. (See Spicer and Schreuder.)						
Schreuder, Jens, and V. Spicer, Pittsburg, Pa. Semaphore-signal.....	372,569	Nov. 1	419	{ 112 113 }	41	550
Schrib, Juni, McGregor, Tex. Washing-machine	370,418	Sept. 27	1595	426	40	1358
Schrock, Harvey J., Goshen, Ind. Automatic gate.....	365,638	June 28	2103	548	39	1511
Schroder, A. H. (See Schroder, Anson A., assignor.)						
Schroder, Anson A., assignor of one-half to A. H. Schroder, Van Horn, Iowa. Toboggan..	364,306	June 7	138	39	39	1115
Schroder, Nicholas, and E. S. Adams, Brooklyn, N. Y. Photographic camera	364,864	June 14	952	251	39	1274
Schroedar, John. (See Marrs, Daniel, assignor.)						
Schroeder, Charles B., Brooklyn, N. Y. Pocket hand-brush	372,492	Nov. 1	303	84	41	528
Schroeder, Ernest C., Itasca, Ill. Potato-planter.....	368,495	Aug. 16	1681	{ 447 448 }	40	787
Schroeder, Josephine B., and M. J. Hinden, Cleveland, Ohio; said Hinden assignor to said Schroeder. Circular-knitting machine	360,735	Apr. 5	481	123	39	90
Schroeder, Max. (See Hänisch and Schroeder.)						
Schroeder, Seaton. (See Driggs, William H., assignor.)						
Schröter, Louis, Guben, Prussia, Germany. Boiler-cleaner	366,796	July 19	1438	384	40	288
Schuberth, William T., Chicago, Ill. Soap-press.....	359,637	Mar. 22	1794	456	38	1245
Schuch, Adolph, Sacramento, Cal. Wood-turning machine	365,277	June 21	1562	407	39	1395
Schuchman, George S., Pittsburg, Pa. Central-draft glass lamp	361,723	Apr. 26	1911	{ 495 496 }	39	380
Schuckman, John P., Orearville, Mo. Windmill.....	359,818	Mar. 22	2067	{ 523 524 }	38	1314
Schuehle, Jacob, San Antonio, Tex. Compressor for ice-machines.....	370,896	Oct. 4	227	58	41	44
Schueth, Charles, Sr., et al. (See Johnson, David, assignor.)						
Schuetz, Louis, Newark, N. J. Toy.....	370,356	Sept. 20	1498	401	40	1332
Schulenburg, August W., St. Louis, Mo. Device for moistening the air for hot-air furnaces and steam-heating	373,858	Nov. 29	2378	640	41	952
Schuller, Josef, Allegheny City, Pa. Automatic catch for inclined railways	375,203	Dec. 20	1498	393	41	1354
Schulte, Catharine, Port Huron, Mich. Fire-escape.....	355,349	Jan. 4	82	22	38	17
Schulthorp, Walter J., Columbian Grove, Va., assignor of one-half to O. A. Scarlett, Philadelphia, Pa. Mail-receiver.....	365,410	June 28	1762	457	39	1445
Schultz, Charles H. (See Voltz, George M., assignor.)						
Schultz, Earnest. (See Burn and Schultz.)						
Schultz, Frederick W. (See Eppelsheimer, Henry, assignor.)						
Schultz, Gustav. (See Bender and Schultz.)						
Schultz, Michael, Cincinnati, Ohio. Steam-actuated valve.....	369,659	Sept. 6	482	{ 133 134 }	40	1126
Schultz, William H., Louisville, Ky. Button	364,678	June 14	655	176	39	1220
Schultze, Eduard, Darmstadt, Grand Duchy of Hesse, Germany. Gunpowder.....	359,289	Mar. 15	1242	.....	38	1147
Schulz, Adolph C., assignor of one-half to G. Orsinger and W. M. Wagner, La Salle, Ill. Manufacture of cement.....	368,552	Aug. 16	1761	.....	40	803
Schulz, Rudolf. (See Kaatz and Schulz.)						
Schulze-Berge, Hermann, Rochester, Pa. Hot-blast stove.....	360,973	Apr. 12	830	213	39	159
Schulze, Charles G. A., et al. (See Staubitz, Adam, assignor.)						
Schulze, Joseph. (See Heller, Robert, assignor.)						
Schumacher, Edward J., Chicago, Ill. Tilting-chair iron	366,262	July 12	706	192	40	141
Schumacher, John C., Chicago, Ill. Car-brake.....	360,054	Mar. 29	2461	627	38	1393
Schumacher, John C., assignor of one-half to A. F. Nussbaumer, Chicago, Ill. Brick-yard shed	358,076	Feb. 22	1936	511	38	805
Schumacher, William, Brooklyn, N. Y. Picture-frame	368,245	Aug. 16	1326	349	40	718
Schumpe, Friedrich, and F. Mollenkamp, assignors of one-third to H. Binne, Cincinnati, Ohio. Washing-machine	357,236	Feb. 8	725	188	38	564
Schurch, Albert. (See Wheelan and Schurch.)						
Schürle, George, Clay Centre, Kans. Cultivator.....	370,977	Oct. 4	360	89, 90	41	72
Schury, Gustavus A. (See Tarn and Schury.)						
Schuster, John, Brooklyn, N. Y. Machine for polishing glass panes	359,744	Mar. 22	1947	494	38	1292
Schutte, Louis, Philadelphia, Pa. Injector.....	363,004	May 17	1338	354	39	736
Schutte, William F., Cleveland, Ohio. Tea or coffee infuser	369,742	Sept. 13	586	159	40	1154
Schutz, Joseph M., Minneapolis, Minn. Roller-mill.....	363,687	May 24	2303	598	39	932
Schuyler Electric Manufacturing Company. (See Lemp, Hermann, assignor.)						
Schuyler Electric Manufacturing Company. (See Lemp and Wightman, assignors.)						
Schuyler Electric Manufacturing Company. (See Wightman and Lemp, assignors.)						
Schuyler, William D., New York, N. Y. Supply and drain pipe connection for wash-stands..	355,345	Jan. 4	75	20, 21	38	16
Schuyler, William D., New York, N. Y. Cleansing, disinfecting, and testing drain-pipes in dwellings and other structures.....	374,008	Nov. 29	2586	695	41	992
Schwab, Abraham G. (See Atkinson, William B., assignor.)						
Schwab, Leonhard, Brooklyn, N. Y. Surgical blade and handle.....	366,432	July 12	918	249	40	182
Schwab, Nathan, New York, N. Y. Gas-trap cover for wash-basins	355,722	Jan. 11	592	154	38	126
Schwab, Nathan, New York, N. Y. Gas-trap cover	358,576	Mar. 1	245	58	38	949
Schwab, Nathan, New York, N. Y. Bottle-stopper	360,055	Mar. 29	2463	627	38	1393
Schwab, Nathan, New York, N. Y. Gas-trap cover.....	362,542	May 10	665	187	39	606
Schwab, Samuel, Windsor, Mo. Combined last and stretcher.....	366,888	July 19	1561	418	40	312
Schwager, Charles, Indianapolis, Ind. Balance-swing	374,206	Dec. 6	55	14	41	1057
Schwahn, Heinrich F. D., Kansas City, Mo. Apparatus for purifying and separating fatty substances by electricity.....	373,691	Nov. 22	2141	573	41	898
Schwalen, John N., Grove Lake, Minn. Churn.....	362,543	May 10	667	187	39	606
Schwaller, Joseph C., Halbur, Iowa. Combined tool.....	372,932	Nov. 8	975	264	41	659
Schwalm, Francis, Fort Smith, Ark. Animal-poke	361,839	Apr. 26	2081	542	39	411
Schwaner, Christian C., Winterset, Iowa. Hame-tug attachment.....	363,048	May 31	2818	731	39	1035
Schwartz, Charles W., et al. (See Miller, Edward I., assignor.)						
Schwartz, Harry P., et al. (See Miller, Edward I., assignor.)						
Schwartz, William, Elizabeth, N. J. Painting-machine.....	367,242	July 26	2051	553	40	412
Schwarz, Adolph H. (See Fennell, Timothy H., assignor.)						
Schweckendiek, Henry W., Baltimore, Md. Awning	363,548	May 24	2098	544	39	892
Schweckendiek, Henry W., Baltimore, Md. Awning	363,549	May 24	2099	{ 544 545 }	39	893
Schwein, Herman, et al. (See Kees, Herman, assignor.)						
Schweitzer, Thomas, Spring Grove, Pa. Car-coupling.....	364,679	June 14	656	176	39	1220
Schweizer, Jacob, Solothurn, assignor to the Werkzeug and Maschinenfabrik Oerlikon, near Zurich, Switzerland. Hydrocarbon-burner	368,171	Aug. 9	1201	321	40	687
Schwemberger, Matthias, Cincinnati, Ohio. Bung	356,379	Jan. 18	1547	407	38	311
Schwend, Carl, Mulheim-on-the-Rhine, Prussia, Germany. Trellis	359,547	Mar. 15	1629	417	38	1219

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Schwenker, Charles, Jr., <i>et al.</i> (See Eddy, Brice B., assignor.)						
Schwesinger, Henry, and J. Courville, assignors to Farrand & Votey Organ Company, Detroit, Mich. Organ-pedal	364,865	June 14	954	251	39	1274
Schwitzer, Anton, Brooklyn, N. Y. Rose-engine	355,562	Jan. 4	350	93, 94	38	70
Seivalley, Martin L., Cowan, Tenn. Wagon-jack	358,485	Mar. 1	92	23	38	921
Scofield, A. Burdett. (See Scofield, Henry L., E. J., and A. B.)						
Scofield, Erwin J. (See Scofield, Henry L., E. J., and A. B.)						
Scofield, George H., Hay Creek, Minn. Draft-equalizer	366,691	July 19	1298	348	40	263
Scofield, Henry L., E. J., and A. B., assignors to H. C. Munn and J. Anstice, Rochester, N. Y. Barrel-support	371,522	Oct. 11	1108	289	41	225
Scofield, John R. (See Littell and Scofield.)						
Scofield, Levi, Grand Haven, Mich. Furniture-caster	357,340	Feb. 8	860	226	38	590
Scofield, Levi, Grand Haven, Mich. Floor-plate for furniture-legs	360,919	Apr. 12	743	195	39	145
Scofield, Lewis G., Philadelphia, Pa. Combined coal elevator, screen, and loader	356,165	Jan. 18	1251	331	38	254
Scofield, Silas A., Morenci, Mich. Pillow-sham holder	357,043	Feb. 1	423	113	38	500
Scofield, Thomas W. (See Wren, William C., assignor.)						
Scofield, William E., assignor of one-half to N. H. Morrill, Augusta, Ga. Lamp-shade	364,305	June 7	137	39	39	1115
Scotford, Louis K., Englewood, assignor to Scotford Manufacturing Company, Chicago, Ill. Hand-stamp	356,732	Jan. 25	2044	537	38	412
Scotford Manufacturing Company. (See Scotford, Louis K., assignor.)						
Scott, Alexander, assignor of one-half to A. B. Lawler, Rushville, Ill. Weather-board holder	358,699	Mar. 1	416	101	38	981
Scott, Alvin B. (See Flaughner and Scott.)						
Scott, Barton W., Logansport, Ind. Motor attachment for centrifugal pumps	356,264	Jan. 18	1377	364	38	279
Scott, David B., assignor of one-half to J. H. Gillenwaters, San Francisco, Cal. Hoisting-jack	359,405	Mar. 15	1412	362	38	1178
Scott, David J., Ridgeway, N. C. Pocket-protector	361,454	Apr. 19	1520	393	39	299
Scott, George B., Brooklyn, N. Y., assignor to Western Union Telegraph Company, of New York. Printing-telegraph	365,705	June 28	2204	576	39	1529
Scott, James. (See Kennedy and Scott.)						
Scott, James, Allegheny, Pa. Paving-brick	361,329	Apr. 19	1349	.....	39	267
Scott, James, Denver, Colo. Finger-ring	367,449	Aug. 2	124	36	40	475
Scott, James A., Monmouth, Ill. Implement for capping cartridge-shells	363,175	May 17	1572	414	39	783
Scott, James A., and T. Oliver, West Bay City, Mich. Car-coupling	355,346	Jan. 4	77	21	38	16
Scott, James S., and F. Holmes, King City, Mo. Kitchen-cabinet	362,544	May 10	668	188	39	606
Scott, James W., Uhrichsville, Ohio. Potato-digger	364,443	June 7	335	92	39	1152
Scott, John, Dover, county of Kent, England. Dry-cleaning textile fabrics	375,652	Dec. 27	2110	.....	41	1478
Scott, John P., New York, N. Y. Chemical fire-extinguisher	357,292	Feb. 8	801	208	38	579
Scott, John P., New York, N. Y. Marking letters, figures, &c	360,115	Mar. 29	2571	.....	38	1412
Scott, Joseph M., Allegheny, Pa. Electric railway-signal	360,175	Mar. 29	2669	673	38	1430
Scott, Mahlon M. (See Wayland, James, assignor.)						
Scott, Marcus W., <i>et al.</i> (See Miller, Marcus A., assignor.)						
Scott, Orlando E., Elkwood, Dak. Ter. Automatic wind-regulator	356,967	Feb. 1	313	85	38	481
Scott, Richard C., Liverpool, county of Lancaster, England. Effervescent-beverage powder	369,368	Sept. 6	84	.....	40	1050
Scott, Robert W., Philadelphia, Pa. Circular-knitting machine	368,429	Aug. 16	1578	{ 421 422 }	{ 40 }	769
Scott Spring Company, Charles. (See Schoen, Charles T., assignor.)						
Scott, Walter, St. Paul, Minn. Collar-button	374,429	Dec. 6	367	96	41	1116
Scott, Walter, Plainfield, N. J. Sheet-delivery apparatus for printing-machines	361,028	Apr. 12	915	232	39	174
Scott, Walter, Plainfield, N. J. Sheet delivery and folding mechanism for printing-machines	361,376	Apr. 19	1419	{ 366 367 }	{ 39 }	280
Scott, Walter, Plainfield, N. J. Safety stopping and starting mechanism for printing-machines	361,786	Apr. 26	2003	521	39	396
Scott, Walter, Plainfield, N. J. Sheet-delivery apparatus	368,734	Aug. 23	2021	536	40	862
Scott, Walter, Plainfield, N. J. Rotary printing-machine	373,487	Nov. 22	1834	489	41	840
Scott, Walter, Plainfield, N. J., assignor to R. Hoe & Co., New York, N. Y. Rotary printing-machine	372,712	Nov. 8	629	{ 171 172 }	{ 41 }	599
Scott, William, Cumberland, Wis. Sled	371,377	Oct. 11	909	233	41	185
Scott, William A. (See Trump and Scott.)						
Scott, William D., Denver, Colo. Belt-lace guard	358,944	Mar. 8	783	197	38	1053
Scott, William G., Rochester, Minn. Wheel	360,920	Apr. 12	744	195	39	145
Scott, William W., C. E. Heise, and C. H. Blossom, Algona, Iowa. Knockdown box	356,854	Feb. 1	157	42	38	451
Scovill Manufacturing Company. (See Adams, W. Irving, assignor.)						
Scovill Manufacturing Company. (See Clark and Lines, assignors.)						
Scovill Manufacturing Company. (See Edwards, Franklin J., assignor.)						
Scovill Manufacturing Company. (See Flammang, Mathias, assignor.)						
Scovill Manufacturing Company. (See Freeman, John R., assignor.)						
Scovill Manufacturing Company. (See Fuller, Willard H., assignor.)						
Scovill Manufacturing Company. (See Hirschfield, Philip, assignor.)						
Scovill Manufacturing Company. (See Munger, Joseph, assignor.)						
Scovill Manufacturing Company. (See Price, Henry C., assignor.)						
Scoville, Delavan C. (See Taylor, Francis C., assignor.)						
Scoville, Thaddeus S., Brooklyn, N. Y., assignor of one-half to W. L. Lance, Sr., Whiting, N. J., and H. Tanner, Buffalo, N. Y. Letter-box	359,548	Mar. 15	1632	418	38	1219
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Dash-pot for electric-arc lights	356,211	Jan. 18	1310	347	38	266
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Test-circuit for multiple-switch-board systems	356,425	Jan. 18	1615	424	38	323
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple-switch-board test-circuit	356,426	Jan. 18	1617	424	38	323
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Factory telephone-exchange	356,427	Jan. 18	1618	424	38	324
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Spring-jack switch	357,538	Feb. 8	1153	302	38	645
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric-light switch-board	367,670	Aug. 2	476	131	40	541
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Winding armatures of dynamo-electric machines	373,948	Nov. 29	2505	672	41	975
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple-switch-board test-circuit	374,907	Dec. 13	1056	277	41	1262
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Double-spring loop key and circuit for multiple switch-boards	375,685	Dec. 27	2163	{ 562 563 }	{ 41 }	1487
Scribner, Charles E., assignor to Western Electric Manufacturing Company, Chicago, Ill. Telephone call-box	373,910	Nov. 29	2452	{ 658 659 }	{ 41 }	965

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Scribner, Elbridge L., Amesbury, Mass. Combined towel, hat, and paper rack.....	356,380	Jan. 18	1548	407	38	311
Scribner, Jerry B., assignor of one-half to H. Harrison, Emmettsburg, Iowa. Four-horse evener.....	367,671	Aug. 2	476	131	40	541
Scribner-Libbey Company. (See Scribner, Elias D., assignor.)						
Scribner, Philip W., <i>et al.</i> (See Gould, Claude C., assignor.)						
Scribner, Philip W. (See Gould and Smith, assignors.)						
Scudder, George T., <i>et al.</i> (See Scudder, Thomas, assignor.)						
Scudder, John H., <i>et al.</i> (See Scudder, Thomas, assignor.)						
Scudder, Thomas, assignor of two-thirds to J. H. and G. T. Scudder, Green Island, N. Y. Wagon-seat fastening.....	366,692	July 19	1300	348	40	263
Scully, John, South Amboy, N. J. Machine for unloading cars.....	366,033	July 5	392	106 107	40	74
Sea, Robert S., Salvisa, Ky. Metallic railway-tie.....	375,005	Dec. 20	1220	319	41	1300
Sea, Sidney W. (See Proctor, David R., assignor.)						
Seaboard and Interior Company. (See Lawson, David T., assignor.)						
Seabrook, William, Edisto Island, S. C. Buckle.....	359,819	Mar. 22	2069	524	38	1315
Seabury & Johnson. (See Penny, William, assignor.)						
Seabury, Samuel, Stony Brook, N. Y. Apparatus for handling ammunition.....	366,348	July 12	819	220	40	162
Seager, Samuel A., <i>et al.</i> (See Crowell, Solomon, assignor.)						
Seagrave, Frederic S., South Bay City, Mich. Vehicle running-gear.....	357,417	Feb. 8	968	255	38	610
Seagrave, John D., Worcester, Mass. Door-spring.....	366,889	July 19	1563	419	40	312
Seaman, Albert H. (See Hyde and Seaman.)						
Seaman, Benjamin S., Corning, N. Y. Bridle.....	357,341	Feb. 8	861	226	38	590
Seaman, Charles F., Hamburg, Pa. Device for attaching handles to plows.....	362,321	May 3	347	95, 96	39	541
Seamless Shoe Crimping Company. (See James, Albert R., assignor.)						
Searcy, Charles E. (See Williamson, Seth M., Jr., assignor.)						
Sergeant, William F., Marshall, Mo. Scribing attachment.....	364,049	May 31	2819	731	39	1035
Sergeant, William F., Marshall, Mo. Circle-scribing attachment for squares.....	366,890	July 19	1564	419	40	312
Searing, Andrew J., <i>et al.</i> (See Allan, John M., assignor.)						
Searl, Robinson P., <i>et al.</i> (See Castleman, Morris N., assignor.)						
Searle, John Q. C., Chicago, Ill. Means for heating railway-cars.....	370,897	Oct. 4	228	58	41	45
Seales, Edward B., assignor of one-half to D. J. Bevans, Baltimore, Md. Sliding-door lock.....	361,897	Apr. 26	2169	562	39	427
Sears, Henry C., Boston, Mass. Operating cab doors and windows.....	356,212	Jan. 18	1311	347	38	266
Sears, John F., Clifton, Ontario, Canada, and H. E. Kelley, Niagara Falls, assignors to Oneida Community, (limited,) Community, N. Y. Snap-hook.....	375,571	Dec. 27	1992	518	41	1457
Seaton, Benjamin C., Nashville, assignor to J. D. Cason and H. P. Seavy, Columbia, Tenn. Whiffletree.....	373,488	Nov. 22	1836	489	41	840
Seaver, Augustus, <i>et al.</i> (See Smith, Aaron F., assignor.)						
Seaver, Augustus, Boston, assignor of one-half to A. F. Smith, Lynn, Mass. Making boots or shoes.....	360,822	Apr. 5	599	158	39	113
Seaver, Augustus, Boston, and W. S. Hamm, Newton, Mass., assignors to Boot and Shoe Sole Laying Company, Portland, Me. Sole-laying machine.....	368,496	Aug. 16	1685	449	40	788
Seaver, E. B., trustee. (See Goodwin, Warren R., assignor.)						
Seaver, Edward B. (See Clark and Stone, assignors.)						
Seaver, George F., Dover, N. H., assignor of one-half to H. S. Jackson and J. W. O'Brien, Boston, Mass. Cane-umbrella.....	358,412	Feb. 22	2401	639	38	892
Seavey & Co. (See Seavey and Lauback, assignors.)						
Seavey, George F., Boston, and I. S. Lauback, Cambridge, assignors to Seavey & Co., Boston, Mass. Torch.....	365,706	June 28	2206	576	39	1529
Seavey, Lafayette W., New York, N. Y. Supporting-frame for photographic backgrounds.....	374,006	Dec. 20	1221	319	41	1300
Seavy, Hial P., <i>et al.</i> (See Seaton, Benjamin C., assignor.)						
Seaward, William M., New York, N. Y. Dumb-waiter stop.....	369,967	Sept. 13	930	247	40	1218
Secco, Henry, assignor of one-third to S. F. Sniffen, New York, N. Y. Carriage or wagon jack.....	360,116	Mar. 29	2572	653	38	1413
Sechrist, Henry H. (See Dundore, Sechrist, and Brubaker.)						
Sechter & Co., <i>et al.</i> (See Knapp, Jacob, assignor.)						
Seck, Wilhelm, Bockenheim, and M. Falk, Darmstadt, Germany, assignors to said Falk. Lubricator.....	364,378	June 7	231	65	39	1133
Secord, John E., Grindstone City, Mich. Railway-gate.....	375,653	Dec. 27	2111	548 549	41	1478
Sedgwick, Frederick, Chicago, Ill. Manufacture of watch-mainsprings.....	363,550	May 24	2101	545	39	893
Sedgwick, Frederick, Chicago, Ill. Apparatus for tempering watch-springs.....	369,560	Sept. 6	336	93	40	1098
Sedgwick, George H., Rochester, N. Y. Paper-jogger.....	360,921	Apr. 12	745	196	39	145
See, Horace, Philadelphia, Pa. Device for elevating water, ashes, &c., from ships.....	368,691	Aug. 23	1951	517 518	40	849
See, Horace, assignor of three-fourths to W. Cramp & Sons Ship and Engine Building Com- pany, Philadelphia, Pa., and S. Archbold, Westover, Md. Quadruple-expansion engine.	357,968	Feb. 15	1777	466	38	770
See, Horace, assignor of one-half to W. Cramp & Sons Ship and Engine Building Company, Philadelphia, Pa. Horizontal piston.....	365,102	June 21	1309	347	39	1348
See, James W., Hamilton, Ohio. Dress-fitting model.....	369,080	Aug. 30	2516	667	40	965
See, James W., assignor to Niles Tool Works, Hamilton, Ohio. Lathe.....	364,307	June 7	140	40	39	1115
Seed Dry Plate Company, M. A., <i>et al.</i> (See Tonndorff, Charles H., assignor.)						
Seefelder, Albrecht. (See De Bondini and Seefelder.)						
Seel, Carl, Charlottenburg, Prussia, Germany. Electric lamp.....	359,328	Mar. 15	1295	336	38	1156
Seel, Carl, Barmen, Prussia, Germany. Button-trimming.....	360,329	Mar. 29	2880	733	38	1470
Seel, Carl, Barmen, Prussia, Germany. Button for dress-trimmings.....	370,419	Sept. 27	1596	426	40	1358
Seeley, Jared T. (See Ludlow, Josiah A., assignor.)						
Seeley, William W., Albany, N. Y. Baling-press.....	367,932	Aug. 9	873	237	40	625
Seeley, William W., Albany, N. Y. Baling-press.....	374,207	Dec. 6	55	14	41	1057
Seely, David W., Elmira, N. Y. Chalk-suspender.....	365,867	July 5	155	40	40	31
Seely, John A. (See Eckert and Seely.)						
Seely, John A., New York, N. Y. Cable-rack for switch-boards.....	367,730	Aug. 2	577	157	40	560
Seely, John A., New York, N. Y. Galvanic battery.....	369,034	Aug. 30	2443	648	40	952
Seely, John A., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Metallic circuit for multiple switch-boards.....	357,539	Feb. 8	1154	302 303	38	645
Seely, John A., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Local battery-circuit for multiple-switch-board systems.....	357,540	Feb. 8	1155	303	38	646
Seely, Samuel F., Toledo, Ohio. Folding canvas cot and canopy.....	363,855	May 31	2539	660	39	983
Seelye, George H., <i>et al.</i> (See Brownell, Stephen C., assignor.)						
Seelye, Seymour K., Hudson, Mich. Stretcher for endless carriers.....	355,723	Jan. 11	594	155	38	126
Seemann, Ernest H. (See Fowler, George B., assignor.)						
Seery, James F., Brooklyn, N. Y. Wick.....	372,869	Nov. 8	887	238	41	643
Seessle, Charles, and G. W. Leiman, New York, N. Y. Lathe.....	358,945	Mar. 8	783	197	38	1054

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Seff, Isaac. (See Lincoff, Seff, and Günther.)						
Segal, Adolph, Camden, N. J. Paper-lining machine	374,498	Dec. 6	468	121	41	1135
Segar, Charles T., Utica, N. Y. Canopy-frame holder	372,570	Nov. 1	420	113	41	550
Segog, John F. (See Gleason, Robert E., assignor.)						
Segog, John F., Duluth, assignor of one-half to M. E. Gleason, Stillwater, Minn. Measuring-vessel	374,759	Dec. 13	842	221	41	1220
Segraves, John M., Chicago, Ill. Heating apparatus for street-cars	369,743	Sept. 13	587	160	40	1155
Segrove, David W., assignor of one-half to I. Darrow, Springfield, Ohio. Tuning-fork	375,654	Dec. 27	2114	54	41	1479
Sehorn, Jacob G., Muscatine, Iowa. Platen printing-machine	369,081	Aug. 30	2518	668	40	966
Sehorne, Isom J., assignor of one-half to J. R. Taylor, Smithland, Tenn. Pump	375,202	Dec. 20	1497	393	41	1353
Seibel, Harry J., Jr., Reading, Pa. Apparatus for enriching gas	358,413	Feb. 22	2402	639	38	892
Seibel, Jacob, Napoleon, Ohio. Drive-chain	373,615	Nov. 22	2033	541	41	876
Seibert, George, Ashley, Ill. Combined dining-table, dressing-case, work-stand, &c.	358,486	Mar. 1	93	23	38	921
Seidel, Charles. (See Seidel, Charles F. W., assignor.)						
Seidel, Charles F. W., assignor of one-fourth to C. Seidel, New York, N. Y. Shoe-fastening	357,541	Feb. 8	1157	303	38	646
Seidensticker, F. Robert, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Andiron	355,563	Jan. 4	351	94	38	71
Seidl, Frank W. and M., Manitowoc, Wis.; said M. Seidl assignor to said Frank W. Seidl. Mower or reaper attachment	361,552	Apr. 19	1645	426	39	324
Seidl, Michael. (See Seidl, Frank W. and M.)						
Seifert, Rudolf, <i>et al.</i> (See Dalton, Thomas, assignor.)						
Seigh, John W., Johnstown, Pa. Hoisting apparatus. (Reissue)	10,829	Apr. 19	1829	473	39	358
Seigh, John W., Johnstown, Pa. Chill-mold	362,545	May 10	670	188	39	607
Seigneuret, Hippolyte J., Henderson, Minn. Reaction-wheel	364,866	June 14	956	252	39	1274
Seller, August J. (See Claudy, Christ, assignor.)						
Seller, Carl, Philadelphia, Pa. Galvanic battery	366,034	July 5	394	107	40	74
Seller, Charles, assignor of one-half to S. A. and S. C. Haseltine, Springfield, Mo. Combined return-ball and cap-snapper	358,487	Mar. 1	93	23	38	921
Seller, Paul, San Francisco, Cal. Electric annunciator	355,791	Jan. 11	694	181	38	144
Seller, Paul, San Francisco, Cal. Annunciator system	364,444	June 7	337	93	39	1152
Seip, Herbert F. (See Hay, Ellwood, assignor.)						
Seipelt, Fridrich, New York, N. Y. Album-stand	371,100	Oct. 4	526	133	41	104
Seiple, George E. (See Wyker and Storm, assignors.)						
Seitz, Edward, Peoria, Ill. Presser-foot-attachment holder for sewing-machines	373,312	Nov. 15	1559	413	41	775
Seitz, Nathaniel Z., Glen Rock, Pa., assignor to Shellabarger Live-Stock Car Company, Washington, D. C. Stock-car	374,881	Dec. 13	1015	266	41	1253
Selby, Prentiss, Oakland, Cal. Wad-sorter	365,544	June 28	1964	512	39	1486
Selby, Prentiss, Oakland, Cal. Wad-sorting machine	375,509	Dec. 27	1898	{ 496 497 }	{ 41 }	1440
Selchow, Elisha G. (See Seliger, Alfred E., assignor.)						
Selden, Charles, <i>et al.</i> (See Barnard, William T., assignor.)						
Selden, Charles, St. Louis, Mo. Automatic car-brake	361,089	Apr. 12	1000	253	39	191
Selden, Charles, Baltimore, Md. Railway-brake	361,090	Apr. 12	1002	253	39	191
Selden, Charles, assignor of one-half to W. T. Barnard, Baltimore, Md. Automatic and autographic telegraphy	371,980	Oct. 25	1783	462	41	377
Selden, Charles, assignor to himself, W. T. Barnard, Baltimore, Md., and F. Van Rysselberghe, Brussels, Belgium. Telegraphy	358,890	Mar. 8	710	176	38	1039
Selden, Charles, assignor to himself, W. T. Barnard, Baltimore, Md., and F. Van Rysselberghe, Brussels, Belgium. Multiple-telegraph system	363,969	May 31	2716	704	39	1015
Selden, Charles, assignor to himself and W. T. Barnard, Baltimore, Md., and F. Van Rysselberghe, Brussels, Belgium. Automatic telegraphy	365,103	June 21	1311	347	39	1348
Selden, Charles, assignor to himself, W. T. Barnard, Baltimore, Md., and F. Van Rysselberghe, Brussels, Belgium. Telegraph-receiver	370,898	Oct. 4	231	59	41	45
Seldner, Joseph J., Baltimore, Md. Cap	357,418	Feb. 8	968	255	38	611
Self Adjusting Corset Company. (See Spencer, Esther R., assignor.)						
Self, Lavega, Piedmont, Mo. Car-coupling	363,551	May 24	2102	545	39	893
Self, Lavega, Piedmont, Mo. Nut-lock	368,357	Aug. 16	1476	393	40	749
Seliger, Alfred E., assignor to E. G. Selchow, New York, N. Y. Game-board	359,820	Mar. 22	2070	524	38	1315
Seliger, Martin, Breslau, Prussia, Germany, assignor to G. H. Weigert, Detroit, Mich. Musical walking-stick	370,496	Sept. 27	1722	457	40	1380
Selk, Gustav J., Monico, Wis. Car-coupling	373,804	Nov. 22	2300	615	41	928
Selkirk, Alexander, Albany, N. Y. Coupling for locomotives	363,856	May 31	2541	{ 660 661 }	{ 39 }	983
Sell, David J. and W. E., Sturgis, Mich. Neck-yoke center	375,655	Dec. 27	2116	549	41	1479
Sell, Ernst, Cañon City, Colo. Land scraper and leveler	356,557	Jan. 25	1809	474	38	368
Sell, John R. and L. A., Johnstown, Pa. Apparatus for making and transferring pig-metal	362,670	May 10	858	{ 234 235 }	{ 39 }	640
Sell, Leroy A. (See Sell, John R. and L. A.)						
Sell, William E. (See Sell, David J. and W. E.)						
Selle, Edward C., Embarrass, Wis. Sleigh-brake	367,165	July 26	1935	522	40	389
Sellers, Albert, Littleton, Ill. Draft-equalizer	358,891	Mar. 8	712	176	38	1039
Sellers & Company, William. (See Bancroft and Lewis, assignors.)						
Sellers & Company, William. (See Sellers, William, assignor.)						
Sellers & Company, William. (See Sellers and Bancroft, assignors.)						
Sellers, George H., Ridley Park, Pa., assignor to Edge Moor Iron Company, New Castle County, Del. Upsetting and shaping metal bars	372,571	Nov. 1	421	{ 113 114 }	{ 41 }	551
Sellers, George H., Ridley Park, Pa., and W. Malam, Edge Moor, assignors to Edge Moor Iron Company, New Castle County, Del. Steam-boiler	372,572	Nov. 1	426	114	41	551
Sellers, Joseph J., Philadelphia, Pa. Dandy-roll	362,790	May 10	1037	282	39	673
Sellers, Joseph J., Philadelphia, Pa. Seam for wire-cloth	372,335	Nov. 1	73	22	41	485
Sellers, Morris, Chicago, Ill. Splice-bar for rail-joints	359,100	Mar. 8	990	253	38	1093
Sellers, Morris, Chicago, Ill. Rolls	367,933	Aug. 9	874	237	40	626
Sellers, William, Haverhill, Mass. Mop-wringer	358,301	Feb. 22	2254	594	38	864
Sellers, William, assignor of one-half to A. M. Sargent, Haverhill, Mass. Flooring-clamp	367,243	July 26	2053	554	40	413
Sellers, William, assignor to W. Sellers & Company, Philadelphia, Pa. Metal mold for casting steel wheels	372,336	Nov. 1	74	22, 23	41	485
Sellers, William, assignor to W. Sellers & Company, Philadelphia, Pa. Railway-wheel	372,573	Nov. 1	428	115	41	551
Sellers, William, and J. S. Bancroft, assignors to W. Sellers & Company, Philadelphia, Pa. Planing-machine for metal	374,908	Dec. 13	1057	{ 277 278 }	{ 41 }	1262
Sellmayer, John M., Shreveport, La. Fan attachment	360,922	Apr. 12	746	196	39	145
Sellon, John S., Hatton Garden, county of Middlesex, England. Incandescent gas-burner	372,933	Nov. 8	976	265	41	659
Sellon, Robert P., and W. M. Mordey, assignors of one-third to C. E. Webber, Victoria Works, Belvedere Road, county of Surrey, England. Regulator for electric generators	373,859	Nov. 29	2379	640	41	952
Selvidge, William W., Locksburg, Ark. Plow	371,220	Oct. 11	692	177	41	145

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Senat, Prosper L., Philadelphia, Pa. Attachment for photographic cameras.....	367,013	July 19	1714	462	40	340
Seneca Screen Company. (See Russell and Cragin, assignors.)						
Senior, David, and H. Fitton, Madison, Ind. Carding-machine	372,771	Nov. 8	734	199	41	616
Senior, Luke, Cleveland, Ohio. Safety attachment for elevators	367,450	Aug. 2	125	36	40	475
Senn, Anton. (See Steinle and Senn.)						
Senour, Faunt L., New Alexandria, Pa. Corn and sugar-cane harvester	366,797	July 19	1439	385	40	288
Sentency, John T., Blocksburg, Cal. Plow	373,489	Nov. 22	1837	489	41	840
Senter, Lucinda N., Red Bluff, Cal. Washing-machine	371,981	Oct. 25	1784	{ 462 463 }	{ 41 41 }	378
Sentman, William A., Britton, Dak. Ter. Nose-protector	364,733	June 14	737	196	39	1235
Sepulchre, Louis, Liege, Belgium. Lamp for burning petroleum and light oils	356,507	Jan. 25	1734	453	38	354
Sergeant, Henry C., New York, N. Y. Quarry-frame for rock-drills	355,347	Jan. 4	78	21	38	16
Sergeant, Henry C., New York, N. Y. Direct-acting engine	355,348	Jan. 4	80	21	38	17
Sergeant, Wells E., assignor of one-half to J. H. Cook, Minneapolis, Minn. Grain-cleaner	358,077	Feb. 22	1937	511	38	805
Sergeant, Wells E., assignor of one-half to J. H. Cook, Minneapolis, Minn. Grain-clean- ing machine	358,302	Feb. 22	2255	595	38	864
Sergeson, James C., Philadelphia, Pa. Thread-guiding and tension-regulating device for loom-shuttles	363,005	May 17	1339	354	39	736
Serrell, Harold, Plainfield, N. J., assignor to Overman Wheel Company, Boston, Mass. Cycle-lamp	373,911	Nov. 29	2453	659	41	966
Serson, James, Boston, Mass., assignor to Uncle Sam Electric Light and Battery Company, Portland, Me. Galvanic battery	367,451	Aug. 2	128	37	40	476
Serson, James, assignor to J. O. Whitten, Boston, Mass. Galvanic battery	374,631	Dec. 13	667	175	41	1185
Serson, James, assignor to J. O. Whitten, Boston, Mass. Galvanic battery	375,007	Dec. 20	1223	319	41	1300
Service, Francis, Ebbw Vale, county of Monmouth, England. Crane	363,424	May 24	1908	501	39	855
Sessions, Henry H., Pullman, assignor to Pullman's Palace Car Company, Chicago, Ill. Movable partition for toilet-apartments	371,982	Oct. 25	1785	463	41	378
Sessions, Henry H., Pullman, assignor to Pullman's Palace Car Company, Chicago, Ill. Railway-car	373,098	Nov. 15	1228	328	41	716
Sessions, Stephen C., Louisville, Ky. Blackboard	368,976	Aug. 30	2361	627	40	936
Setchell, George C., Norwich, Conn. Die for making wood type and method of producing the same	375,008	Dec. 20	1225	320	41	1301
Settle, John, Bolton, county of Lancaster, England. Rocking bars for furnaces and means for operating them	372,176	Oct. 25	2083	533	41	431
Settle, Martin T., <i>et al.</i> (See Knaus, Joseph H., assignor.)						
Settle, Miles, Snow Hill, Darcy Lever, near Bolton, county of Lancaster, England. Safety- lamp for use in mines and other places	361,455	Apr. 19	1521	{ 393 394 }	{ 39 39 }	299
Settle, Miles, Snow Hill, Darcy Lever, near Bolton, county of Lancaster, England. Elec- tric safety-lamp for use in mines	368,857	Aug. 23	2186	580	40	893
Settles, William P., Ladue, Mo. Land-roller	368,497	Aug. 16	1686	449	40	788
Sévérac, Paul J., Paris, France. Metallic cross-tie and means for attaching the rails thereto	361,330	Apr. 19	1350	347	39	267
Severance, Horace W., <i>et al.</i> (See Livengood, Winfield S., assignor.)						
Severns, Lenard, Bridgeport, Ill. Hoisting apparatus	359,182	Mar. 8	1085	283	38	1111
Severson, William H., assignor to Silsby Manufacturing Company, Seneca Falls, N. Y. Hose-cart	365,448	June 28	1821	474	39	1456
Sevier, Moses N., Vernon, Tex. Trousers	373,313	Nov. 15	1560	413	41	776
Sewall, James H., Portland, Me. Car-heating apparatus	373,314	Nov. 15	1561	413	41	776
Sewall, James H., Portland, Me. Car-heating apparatus	374,275	Dec. 6	140	37	41	1074
Sewall, James H., Portland, Me. Hose-coupling	375,572	Dec. 27	1993	519	41	1458
Sewall, James H., assignor to Sewall Safety Car Heating Company, Portland, Me. Steam- trap	363,552	May 24	2103	545	39	893
Sewall, James H., assignor to Sewall Safety Car Heating Company, Portland, Me. Hose- coupling	363,553	May 24	2104	546	39	894
Sewall, Joseph A., Denver, Colo. Preserving wood	374,208	Dec. 6	57		41	1058
Sewall, Joseph A., Boulder, Colo., assignor of two-thirds to W. H. Stennett, Chicago, Ill. Veterinary remedy	358,001	Feb. 15	1824		38	779
Sewall, Nicholas H. (See Sewall, Robert H. F. and N. H.)						
Sewall, Robert H. F. and N. H., Smithland, La. Utilizing exhaust-steam	372,713	Nov. 8	632	172	41	600
Sewall Safety Car Heating Company. (See Sewall, James H., assignor.)						
Seward, Clarence B., <i>et al.</i> (See Wood, Edward L., assignor.)						
Seward, Edgar P., assignor to P. A. Stone, trustee, Haverhill, Mass. Knife for channel- ing soles	364,139	May 31	2948	765	39	1060
Seward, William. (See Racca and Seward.)						
Sewel, Alworth, Berryville, Ark. Fire-alarm	359,694	Mar. 22	1874	476	38	1280
Sewel, Alworth, Berryville, Ark. Animal-trap	363,554	May 24	2106	546	39	894
Sewell, Alfred L., Evanston, Ill. Indicating-calendar	363,088	May 17	1450	384	39	758
Sewell, William N., Cincinnati, Ohio. Spring for carriage-top joints	359,638	Mar. 22	1795	457	38	1265
Sexauer, William, Omaha, Nebr. Carpet-stretcher	362,791	May 10	1038	282	39	673
Sexsmith, Mathew, Winchester, Mo. Egg-tester	360,176	Mar. 29	2670	673	38	1430
Sexton, Daniel. (See Kenworthy, Sexton, and Thompson.)						
Sexton, Patrick D., Worcester, Mass. Chimney-thimble	370,420	Sept. 27	1597	427	40	1358
Sexton, Wallace C. (See Felton, Emerson C., assignor.)						
Seybel, Frederick W. (See Kelly, John W., assignor.)						
Seybold, Charles, Cincinnati, Ohio. Pasting, gumming, and gluing machine	367,452	Aug. 2	130	37, 38	40	476
Seybold, Charles, assignor to Seybold & Schlueter, Cincinnati, Ohio. Pallet	358,791	Mar. 1	539	132	38	1004
Seybold, Charles, assignor to Seybold & Schlueter, Cincinnati, Ohio. Machine for cutting index-steps in blank-books	360,330	Mar. 29	2881	733	38	1470
Seybold & Schlueter. (See Seybold, Charles, assignor.)						
Seyl, Peter, Chicago, Ill. Machine for displaying advertising and other cards	367,068	July 26	1794	484	40	364
Seymour Cutlery Company, Henry. (See Celce, Fritz, assignor.)						
Seymour, Dudley S., Hartford, Conn. Machine-tool holder	371,712	Oct. 18	1391	359	41	291
Seymour, Edward W., assignor to Hull, Grummond & Co., Binghamton, N. Y. Cigar- shaper	363,301	May 17	1737	455	39	814
Seymour, Frederick W., assignor of one-half to H. Sonneborn, Wheeling, W. Va. Heating device for dinner-pails	369,412	Sept. 6	140	40, 41	40	1059
Seymour, H. H., <i>et al.</i> (See Boughton, Barton A., assignor.)						
Seymour, Henry A., Washington, D. C., assignor to Canfield Rubber Company, Bridge- port, Conn. Garment-supporter	356,665	Jan. 25	1958	514	38	397
Seymour, Henry J., Niagara, Ontario, Canada. Animal-trap	362,792	May 10	1039	282	39	673
Seymour, James H., <i>et al.</i> (See Clark, Ernest P., assignor.)						
Seymour, John, deceased, Auburn, N. Y.; M. S. Seymour executrix. Pencil-sharpener	375,009	Dec. 20	1227	320	41	1301
Seymour, Mersena S., executrix. (See Seymour, John.)						
Seymour, Oliver E., Cincinnati, Ohio, assignor to Wire Grip Fastening Company, Chicago, Ill. Nailing-machine for boot or shoe work	364,776	June 14	820	216	39	1248

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Seymour, Oliver E., Cincinnati, Ohio, assignor to Wire Grip Fastening Company, Chicago, Ill. Gripping mechanism for wire-nailing machines.....	364,777	June 14	821	217	39	1248
Seymour, Oliver E., Cincinnati, Ohio, assignor to Wire Grip Fastening Company, Chicago, Ill. Shoe-nailing machine.....	364,778	June 14	823	{ 217 218 }	{ 39 }	1249
Seymour, Oliver E., Cincinnati, Ohio, assignor to Wire Grip Fastening Company, Chicago, Ill. Wire fastening for boots or shoes.....	364,779	June 14	828	218	39	1250
Seymour, Otto L. (See Long, John T., assignor.)						
Seymour, William, West Haven, Mich. Cider-mill grinder and press.....	360,331	Mar. 29	2883	734	38	1471
Seymour, William S., assignor to Northwestern Wire Mattress Company, Kenosha, Wis. Machine for weaving coiled-wire fabrics.....	357,342	Feb. 8	862	227	38	590
Seymour, William S., assignor to Z. G. Simmons, Kenosha, Wis. Machine for securing fabrics to bed-bottom frames.....	357,343	Feb. 8	862	{ 227 228 }	{ 38 }	590
Shaaber, Jacob, Reading, Pa. Swimming-paddle.....	373,692	Nov. 22	2143	573	41	899
Shackford, Albert E., Brattleborough, assignor of one-half to S. A. Smith, Guilford, Vt. Incubator.....	358,169	Feb. 22	2074	546	38	829
Shackleton, Joseph, New York, N. Y. Heating apparatus.....	373,693	Nov. 22	2144	573	41	899
Shackleton, Joseph, New York, N. Y. Conduit or hose.....	374,089	Nov. 29	2714	728	41	1018
Shadd, William A., North Buxton, Ontario, Canada. Traction-engine.....	355,891	Jan. 11	843	222	38	171
Shader, Augustus E., Chicago, Ill. Manufacturing plated goods.....	356,234	Jan. 18	1345	355	38	272
Shafer, Charles B. (See Mason and Shafer.)						
Shaffer, Charles H., assignor of one-half to Jones, Woodruff & Co., Rockford, Ill. Time-lock.....	359,549	Mar. 15	1633	{ 418 419 }	{ 38 }	1220
Shaffer, Charles H., assignor of one-half to Jones, Woodruff & Co., Rockford, Ill. Fire-extinguisher.....	365,639	June 28	2104	548	39	1511
Shaffer, Charles H., assignor of one-half to Jones, Woodruff & Co., Rockford, Ill. Sprinkler.....	367,322	July 26	2168	583	40	433
Shaffer, Charles H., assignor of one-half to Jones, Woodruff & Co., Rockford, Ill. Fire-extinguisher.....	367,323	July 26	2170	584	40	433
Shaffer, Henry E., Rochester, N. Y. Lamp-burner.....	358,892	Mar. 8	713	176	38	1040
Shaffer, James H. (See Simpson and Shaffer.)						
Shaffer, William A., assignor of one-half to F. M. Swearingen, Richland, Iowa. Horse-collar pad.....	373,787	Nov. 22	2272	609	41	923
Shaffer, William C., Chicago, Ill. Apparatus for applying the expansive power of heat.....	367,244	July 26	2054	554	40	413
Shaffer, William F., Cedar Rapids, Iowa. Oil-cake-molding machine.....	372,574	Nov. 1	430	115	41	551
Shahfer, John G., Clay City, Ind. Kitchen-cabinet.....	375,204	Dec. 20	1500	393	41	1354
Shailer, Fisk, Chester, Conn. Eyeglass or spectacle case.....	361,724	Apr. 26	1912	496	39	380
Shailer, Robert A., Chicago, Ill., and F. W. Kimball, Milwaukee, Wis. Ditching or car-loading machine.....	367,554	Aug. 2	290	81, 82	40	506
Shallenberger, Frank L., Braddock, assignor to Carnegie, Phipps & Co., (limited,) Pittsburgh, Pa. Heater for coal-screens.....	362,793	May 10	1041	283	39	673
Shallenberger, Oliver B. (See Byllesby and Shallenberger.)						
Shallenberger, Oliver B. (See Lange and Shallenberger.)						
Shallenberger, Oliver B. (See Westinghouse, Byllesby, Shallenberger, and Schmid.)						
Shallenberger, Oliver B. (See Westinghouse, Byllesby, Shallenberger, Schmid, and Hartley.)						
Shallenberger, Oliver B., Rochester, Pa. Electric cut-out.....	357,293	Feb. 8	802	209	38	579
Shallenberger, Oliver B., Rochester, Pa. Electric regulator.....	359,101	Mar. 8	991	253	38	1093
Shallenberger, Oliver B., Rochester, Pa. Electric converter.....	373,029	Nov. 8	1133	303	41	686
Shallenberger, Oliver B., Rochester, assignor to G. Westinghouse, Jr., Pittsburgh, Pa. Regulator for self-exciting alternate-current electric generators.....	366,349	July 12	821	221	40	162
Shallenberger, Oliver B., Rochester, assignor to G. Westinghouse, Jr., Pittsburgh, Pa. Safety-strip for electric circuits.....	366,350	July 12	823	221	40	162
Shallenberger, Oliver B., Rochester, assignor to G. Westinghouse, Jr., Pittsburgh, Pa. Commutator for electric generators.....	367,934	Aug. 9	875	238	40	626
Shallenberger, Oliver B., Rochester, assignor to G. Westinghouse, Jr., Pittsburgh, Pa. Method of and apparatus for connecting alternate-current generators.....	372,934	Nov. 8	977	265	41	659
Shallenberger, Oliver B., Rochester, assignor to G. Westinghouse, Jr., Pittsburgh, Pa. Apparatus for connecting alternate-current electric generators.....	372,935	Nov. 8	979	265	41	660
Shallenberger, Oliver B., Rochester, assignor to G. Westinghouse, Jr., Pittsburgh, Pa. Pressure-indicating apparatus and circuit for a system of electric distribution.....	372,936	Nov. 8	981	266	41	660
Shallow, Edward. (See Hughes and Shallow.)						
Shamp, George W., assignor to Acme Manufacturing Company, Buffalo, N. Y. Clutch.....	363,006	May 17	1340	354	39	736
Shanklin, James M., and J. E. McNeill, Sandoval, Ill. Combined siding bracket, gage, and compass.....	356,166	Jan. 18	1252	331	38	255
Shanks, Mathew, and F. Daily, Cincinnati, Iowa. Corn-planter.....	363,007	May 17	1341	354	39	736
Shanley, Annie, New York, N. Y. Device for renovating garments.....	357,791	Feb. 15	1542	402	38	726
Shannahan, John W., et al. (See Lee, John O., assignor.)						
Shannon, Fanny B., Denver, Colo. Device for teaching fractions.....	356,167	Jan. 18	1253	{ 331 332 }	{ 38 }	255
Shannon, Frank, Middleport, Ohio. Concealed repository in cabinet furniture.....	375,574	Dec. 27	1996	519	41	1458
Shannon, Hugh F. (See Berkely and Shannon.)						
Shantz, Dilman B., Berlin, Ontario, Canada. Machine for drilling holes and plowing grooves in buttons.....	357,861	Feb. 15	1633	{ 424 425 }	{ 38 }	743
Shares, Daniel W., New Haven, Conn. Harrow.....	365,104	June 21	1314	348	39	1348
Sharick, W. A., et al. (See Martz, Oliver M., assignor.)						
Sharood, William H., South Toledo, assignor to A. P. Fisher, Wauseon, and P. Dowling, South Toledo, Ohio. Guard-finger.....	358,488	Mar. 1	94	24	38	921
Sharp, Alfred P., Dublin, county of Dublin, Ireland. Photographic-camera slide.....	358,893	Mar. 8	715	176	38	1040
Sharp, Don L., Hornellsville, N. Y. Shoe-button remover.....	371,280	Oct. 11	774	199	41	160
Sharp, Fred W. (See Averill and Sharp.)						
Sharp, George E., Steubenville, Ohio. Stove.....	356,381	Jan. 18	1549	407	38	312
Sharp, Hardy J., Lacey, Ark. Harrow.....	358,700	Mar. 1	418	101	38	981
Sharp, John C., Axtel, Kans. Adjustable hame.....	358,078	Feb. 22	1938	511	38	806
Sharp, John C., and A. U. Calkins, Delavan, Wis.; said Calkins assignor to said Sharp. Grub and stump extractor.....	365,545	June 28	1966	{ 513 514 }	{ 39 }	1486
Sharp, Richard W., et al. (See Taylor, Charles R., assignor.)						
Sharp, Van Schaick, Weedsport, N. Y., assignor to H. Rheubottom & Co. Machine for seaming sheet metal.....	358,894	Mar. 8	715	177	38	1040
Sharples, Philip M., West Chester, Pa. Motor.....	370,421	Sept. 27	1598	427	40	1359
Sharpneck, William S., Denver, Colo. Journal-box.....	357,636	Feb. 15	1309	344	38	683
Sharpneck, William S., Denver, Colo. Steam-engine.....	367,119	July 26	1870	506	40	377
Sharpneck, William S., Denver, Colo. Journal-bearing.....	368,246	Aug. 16	1326	349	40	718
Sharpneck, William S., Denver, Colo. Car-axle box.....	373,490	Nov. 22	1838	490	41	840
Sharpneck, William S., Denver, Colo. Anti-friction journal-box.....	373,756	Nov. 22	2225	596	41	915

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Sharrow, Theophile, assignor of one-half to H. C. Cooper, Kankakee, Ill. Device for operating awnings	361,091	Apr. 12	1005	254	39	192
Sharts, Theodore, New York, N. Y. Manufacture of illuminating-tiles for sidewalks, &c.	375,101	Dec. 20	1362	355	41	1326
Shattuck, Aaron D., Granby, Conn. Stretcher-frame	367,672	Aug. 2	477	132	40	541
Shattuck, Arthur E. (See Smith and Shattuck.)						
Shattuck, Charles A., Boston, Mass. Suspenders	375,010	Dec. 20	1227	320	41	1301
Shattuck, Charles H., assignor to W. E. Bowditch, Boston, Mass. Axle-box	373,912	Nov. 29	2454	659	41	966
Shattuck, William H., Providence, R. I. Pegging-awl	356,666	Jan. 25	1958	514	38	397
Shaver, Alexander. (See Hanes and Shaver.)						
Shaver, George F., assignor to B. P. Wheeler, New York, N. Y. Mechanical telephone switch	365,868	July 5	156	41	40	32
Shaw, Ai B., assignor to Racine Shade Roller Company, Racine, Wis. Shade-roller	371,635	Oct. 18	1266	329	41	265
Shaw, Alexander B., St. Louis, Mo. Instrument for attaching topedoes to rails	373,491	Nov. 22	1839	490	41	840
Shaw, Alton J., Providence, R. I. Protractor	367,673	Aug. 2	478	132	40	541
Shaw, Azro J., Conway, Kans. Cane or corn harvester	372,870	Nov. 8	888	{ 238 239 }	{ 41 }	643
Shaw, Charles A. (See Chase, William R., assignor.)						
Shaw, Charles A. (See Farmer and Shaw.)						
Shaw, Charles A. (See Mellett, Lemuel, assignor.)						
Shaw, Charles A., et al. (See Roberts, Walter, assignor.)						
Shaw, Charles A., Boston, and W. R. Chase, Lynn, Mass., assignors to Chase Last Company, Portland, Me. Last	375,575	Dec. 27	1997	519	41	1458
Shaw, Charles H., Brooklyn, N. Y. Safety-razor	361,377	Apr. 19	1421	367	39	280
Shaw, Charles H., assignor of three-fourths to E. H. Brown, R. H. Thompson, and H. D. Norris, Brooklyn, N. Y. Door-check	363,688	May 24	2305	598	39	932
Shaw, Ed. R. (See Stearns, Theron C., assignor.)						
Shaw, Edgar, Lynn, Mass. Clamp	359,942	Mar. 22	2265	570	38	1350
Shaw, Edgar, Lynn, assignor, by mesne assignments, to Shaw Manufacturing Company, Boston, Mass. Clamp	360,974	Apr. 12	833	213	39	160
Shaw, Edgar, Lynn, assignor to Shaw Manufacturing Company, Boston, Mass. Planer-chuck	372,714	Nov. 8	633	{ 172 173 }	{ 41 }	600
Shaw, Edgar, Lynn, assignor to Shaw Manufacturing Company, Boston, Mass. Lathe-chuck	375,011	Dec. 20	1228	321	41	1301
Shaw, Edward S., Cambridge, Mass. Elevated-railway superstructure	361,029	Apr. 12	916	{ 232 233 484 485 486 }	{ 39 40 }	174 364
Shaw, Edward S., Cambridge, Mass. Electric locomotive	367,069	July 26	1796			
Shaw, Elias J., assignor to H. J. Reedy, Cincinnati, Ohio. Automatic safety appliance for elevators	363,302	May 17	1737	455	39	814
Shaw, Elijah, assignor of one-half to C. T. Bradley and W. H. Metcalf, Milwaukee, Wis. Heel-stiffener machine	356,335	Jan. 18	1486	392	38	299
Shaw, Elver H., and J. D. Wixom, Clay Centre, Kans. Door-check	361,840	Apr. 26	2082	542	39	411
Shaw, Henry F., Boston, Mass. Gravitating door check and closer	365,491	June 28	1880	{ 489 490 }	{ 39 }	1467
Shaw, James F., Jackson, Mich. Rubber boot	371,221	Oct. 11	693	178	41	145
Shaw, John, Browns, Wash. Ter. Hasp-lock	363,008	May 17	1342	355	39	736
Shaw, John F., and J. O. Toole, Girardville, Pa. Gage-cock	362,546	May 10	671	188	39	607
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Sash-fastener	369,885	Sept. 13	805	214	40	1196
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Sash-fastener	375,656	Dec. 27	2117	550	41	1479
Shaw Manufacturing Company. (See Shaw, Edgar, assignor.)						
Shaw, Myron J., assignor to himself and E. Andrews, Williamsport, Pa. Saw-mill set-works	361,092	Apr. 12	1006	254	39	192
Shaw, Noah T., Columbus, Ohio, assignor to Enterprise Manufacturing Company. Embalming-table	355,476	Jan. 4	240	63	38	49
Shaw, Richard E., L. H. Cutbirth, and J. Platt, Los Angeles, Cal. Combined bevel and square	365,869	July 5	158	41	40	32
Shaw, Robert L., Franklin, Pa. Root-extractor	367,555	Aug. 2	292	83	40	506
Shaw, Samuel J., Boston, Mass. Window-ventilator	358,223	Feb. 22	2148	566	38	844
Shaw Stocking Company. (See French and Gifford, assignors.)						
Shaw, Thomas, Philadelphia, Pa. Stone-drag	355,792	Jan. 11	695	1-1	38	144
Shaw, Thomas, Philadelphia, Pa. Apparatus for automatically testing mine-gases	359,102	Mar. 8	992	{ 254 255 }	{ 38 }	1093
Shaw, Thomas, Philadelphia, Pa. Indicator for furnace-tuyeres	364,050	May 31	2820	731	39	1036
Shaw, Thomas, Philadelphia, Pa. Hydrocarbon and gas-impulse feeder for gas-engines	367,936	Aug. 9	878	238	40	626
Shaw, Thomas, Philadelphia, Pa. Combined gas and oil engine	367,937	Aug. 9	879	239	40	627
Shaw, Thomas, Philadelphia, Pa. Time-sounding indicator	372,090	Oct. 25	1961	505	41	407
Shaw, Thomas, Philadelphia, Pa. Safety-valve and alarm	372,493	Nov. 1	304	84	41	528
Shaw, Thomas, Philadelphia, Pa. Steam and gas governor	373,616	Nov. 22	2034	541	41	876
Shaw, William E. (See Jones, Louis D., assignor.)						
Shawhan, Richard J., Swan, assignor of one-fourth to G. R. Howard, Runnells, Iowa. Automatic foot for tongueless cultivators	358,414	Feb. 22	2404	639	38	893
Shea, Daniel E., Watertown, N. Y. Railway-rail splice	368,017	Aug. 9	994	267	40	649
Shea, James, New York, N. Y. Hat-hanging hook	355,564	Jan. 4	352	94	38	71
Shea, James P., and W. Brown, Waupun, Wis. Boot or shoe	361,725	Apr. 26	1913	496	39	380
Shea, Timothy R., Springfield, Mass. Cigar-tip clipper	356,168	Jan. 18	1257	332	38	256
Shearer, John, Preston, and H. W. Karch, Hespeler, Ontario, Canada; said Karch assignor to said Shearer. Double-acting rotary gig	367,070	July 26	1801	486	40	365
Shearlock, Joseph G., New Haven, Conn. Steam-radiator	356,293	Jan. 18	1427	376	38	2-8
Shearman, Addison P., et al. (See Roberts, Henry P., assignor.)						
Shearman, Rufus P., et al. (See Roberts, Henry P., assignor.)						
Shedlock, Alfred, Jersey City, N. J., assignor of one-half to J. Crotty, Brooklyn, N. Y. Printing device	369,886	Sept. 13	807	215	40	1196
Shee, Parke E., Chester, assignor of one-half to R. W. Martin, Philadelphia, Pa. Cutter-bar for mowing and reaping machines	370,497	Sept. 27	1723	457	40	1380
Sheehan, John, New York, N. Y. Window-guard	364,551	June 7	496	133	39	1181
Sheehan, Thomas, Louisville, Ky. Gas-burner	366,891	July 19	1565	419	40	312
Sheehy, Robert J., New York, N. Y. Dynamo-electric machine	359,894	Mar. 22	2192	553	38	1336
Sheehy, Robert J., New York, N. Y. Electric motor	362,322	May 3	318	96	39	541
Sheehy, Robert J., New York, N. Y. Printing-telegraph	368,692	Aug. 23	1954	518	40	850
Sheehy, Robert J., New York, N. Y. Printing-telegraph	368,858	Aug. 23	2187	{ 580 581 }	{ 40 }	893
Sheehy, Robert J., New York, N. Y. Printing-telegraph	368,859	Aug. 23	2189	581	40	894
Sheehy, Robert J., New York, N. Y. Printing-telegraph	370,357	Sept. 20	1498	402	40	1333

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Sheehy, Robert J., assignor to Independent Printing Telegraph Company, New York, N. Y. Printing-telegraph.....	370,978	Oct. 4	362	90, 91	41	72
Sheeran, John, New Lexington, Ohio. Attachment for basket-grates.....	355,565	Jan. 4	352	94	38	71
Sheets, William P. (See Bailey and Sheets.)						
Sheffield, Lucius T., New York, N. Y. Artificial tooth.....	357,044	Feb. 1	424	113	38	500
Sheffield Velocipede Car Company. (See Kirby, James J., assignor.)						
Sheffield Velocipede Car Company. (See Willits, Warren J., assignor.)						
Sheib, Jakob, Rapid City, Ill. Rock or coal drill.....	357,637	Feb. 15	1310	344	38	683
Sheibley, Henry W., <i>et al.</i> (See Brown, William, assignor.)						
Shelby, Christopher C., Paterson, N. J. Bustle.....	361,969	Apr. 26	2278	592	39	446
Shelby, Christopher C., Paterson, N. J. Bustle.....	374,632	Dec. 13	668	175	41	1186
Sheldon Axle Company. (See Sheldon, Charles L., assignor.)						
Sheldon, Charles L., Auburn, N. Y., assignor to Sheldon Axle Company, Wilkes-Barré, Pa. Forming carriage-axles.....	375,387	Dec. 27	1741	457	41	1409
Sheldon, Charles L., Auburn, N. Y., assignor to Sheldon Axle Company, Wilkes-Barré, Pa. Making carriage-axles.....	375,388	Dec. 27	1742	457	41	1409
Sheldon, Frank L., Rahway, N. J. Shirt.....	361,898	Apr. 26	2170	562	39	427
Sheldon, Frederick M., <i>et al.</i> (See Plumb, George E., assignor.)						
Sheldon, Lewis W., New York, N. Y. Car-step.....	369,129	Aug. 30	2575	684	40	978
Sheldon, Morris W., <i>et al.</i> (See Plumb, George E., assignor.)						
Sheldon, Philo B., assignor of one-half to A. T. Marsh, Erie, Pa. Horse-block.....	356,896	Feb. 1	219	61	38	461
Sheldon, Richard B., assignor to Empire Drill Company, Shortsville, N. Y. Spring-hoe for grain-drills, seeders, &c.....	357,862	Feb. 15	1637	425	38	744
Sheldon, Richard B., assignor to Empire Drill Company, Shortsville, N. Y. Seeding-machine.....	358,303	Feb. 22	2256	595	38	865
Sheldon, Thomas H., Fair Play, Colo. Bell-rope coupling.....	375,205	Dec. 20	1501	393	41	1354
Sheldon, William K. (See North and Sheldon.)						
Shellabarger, Joseph C. (See Younce, Shellabarger, and Nicholas.)						
Shellabarger Live-Stock Car Company. (See Herron and White, assignors.)						
Shellabarger Live-Stock Car Company. (See Seitz, Nathaniel Z., assignor.)						
Shellabarger, Edward F., Beaver Falls, Pa. Picket fence.....	368,977	Aug. 30	2362	627	40	936
Shellenback, Peter, Richmond, Ind. Lathe.....	364,966	June 14	1100	287	39	1301
Shelley, Mortimer M., Brooklyn, N. Y. Releasing device.....	367,556	Aug. 2	293	83	40	506
Shellico, John C., Penn Run, Pa. Nut.....	360,621	Apr. 5	332	82	39	63
Shelmerdine, William H. (See Brereton, David, assignor.)						
Shelton, E. De Forest, Birmingham, Conn. Screw-bolt.....	375,206	Dec. 20	1502	394	41	1354
Shelton, Henry C., New Haven, Conn. Clothes drier.....	357,045	Feb. 1	424	113	38	500
Shelton, James K. P., Gaston, Ala. Monument or sign holder.....	359,639	Mar. 22	1795	457	38	1265
Shelton, Thomas, assignor to National Tube Works Company, McKeesport, Pa. Inlet for natural gas.....	366,035	July 5	395	107	40	74
Shelton, Thomas, assignor to National Tube Works Company, McKeesport, Pa. Receiver for natural-gas wells.....	371,794	Oct. 18	1507	389	41	314
Shemwell, Baxter. (See Bernheim, Charles H., assignor.)						
Shenfield, Abraham. (See Voorhis, Calvin, assignor.)						
Shenfield, Harry L. (See Nassauer, Julius, assignor.)						
Shepard, Amos, Plantsville, Conn. Tinsmith's beading-machine.....	356,897	Feb. 1	220	61	38	462
Shepard, Amos, Plantsville, Conn. Hand-drill.....	356,898	Feb. 1	221	61	38	462
Shepard, Amos, Plantsville, Conn. Meat-cutter.....	369,744	Sept. 13	588	160	40	1155
Shepard, Amos, Plantsville, Conn. Meat-cutter.....	369,745	Sept. 13	590	160	40	1155
Shepard, Charles D., New York, N. Y. Centrifugal liquid-separator.....	375,012	Dec. 20	1230	321	41	1301
Shepard, Charles G., and P. Adams; said Adams assignor to W. J. Shepard, Buffalo, N. Y. Toy pistol.....	359,895	Mar. 22	2199	554	38	1337
Shepard, Charles G., and P. Adams; said Adams assignor to W. J. Shepard, Buffalo, N. Y. Toy pistol.....	372,990	Nov. 8	1062	284	41	675
Shepard, Charles H., North Plainfield, N. J. Hoof-expander.....	373,380	Nov. 15	1671	443	41	797
Shepard, Eugene O., and M. R. Fields, Detroit, Mich.; said Fields assignor to said Shepard. Cornet or other valve instrument.....	361,553	Apr. 19	1646	427	39	324
Shepard, Jason H., <i>et al.</i> (See Marchant, David, assignor.)						
Shepard, John G., Hartford, Conn. Shaft-coupling.....	370,422	Sept. 27	1599	427	40	1359
Shepard, Morrill A., Lebanon, Ill. Dredging and excavating machine.....	364,780	June 14	830	218	39	1250
Shepard, Morrill A., Lebanon, Ill. Pendulum-gate.....	367,453	Aug. 2	132	38	40	476
Shepard, Walter J. (See Shepard and Adams, assignors.)						
Shepard, Webster G., New Haven, Conn. Toboggan.....	359,406	Mar. 15	1415	362	38	1179
Shepard, William H. (See Nichols and Shepard.)						
Shepardson, Cornelius, Cazenovia, N. Y. Swinging chair.....	358,701	Mar. 1	419	101	38	981
Shepardson, Edward B., Greenfield, Mass. Gage for wood-working planes.....	367,071	July 26	1802	486	40	365
Shepardson, Otis, Sturgis, Mich. Wash-bench.....	359,035	Mar. 8	903	230	38	1075
Shephard, Joseph E. (See Fletcher, Benjamin L., assignor.)						
Shepherd, Charles H., New York, N. Y. Sewerage system for buildings.....	361,456	Apr. 19	1523	394	39	300
Shepherd, Charles H., New York, N. Y. Sewerage system for buildings.....	372,494	Nov. 1	305	84	41	529
Shepherd, Henry S. (See Kelly and Lee, assignors.)						
Shepherd, Robert A., Braddyville, Iowa. Churn.....	364,308	June 7	141	40	39	1115
Shepherd, Thomas W., Peabody, Mass. Adjustable journal-bearing.....	360,117	Mar. 29	2574	653	38	1413
Shepherd, Thomas W., Peabody, Mass. Metallic thermometer.....	375,576	Dec. 27	1999	520	41	1459
Sheppard, Frank L., Altoona, Pa. Brake-shoe.....	355,477	Jan. 4	241	63	38	49
Sheppard, George W., and S. A. Buell, Indianapolis, Ind. Combined bed and dressing-case.....	366,191	July 5	597	161	40	113
Sher, Frederick P. (See Robbins, Ira, assignor.)						
Sherck, Isaac, and J. Batig, Jr., assignors to American Wax Paper Company, Fremont, Ohio. Apparatus for waxing paper.....	362,547	May 10	673	189	39	607
Sheridan, David G., Bridgeport, Conn. Harness for rapid hitching.....	373,757	Nov. 22	2226	596	41	915
Sheridan, James T., Newark, N. J. Button.....	371,378	Oct. 11	911	234	41	185
Sheridan, James T., Newark, N. J., assignor to City Button Works, New York, N. Y. Button-making machine.....	371,379	Oct. 11	911	234	41	185
Sheriffs, Thomas W., Milwaukee, Wis. Feed-indicator for oil-pumps.....	371,983	Oct. 25	1785	463	41	378
Sherman, Albert R., Pawtucket, R. I., assignor, by mesne assignments, to Sawyer Spindle Company, Boston, Mass. Spindle-support for spinning-machines.....	363,425	May 24	1909	501	39	856
Sherman, Charles L. (See Price and Sherman.)						
Sherman, David H., Waukegon, Ill. Car-coupling.....	365,278	June 21	1563	407	39	1395
Sherman, Elliott H., assignor of one-half to J. B. Parker, Grand Rapids, Mich. Artificial tooth.....	373,099	Nov. 15	1231	328	41	717
Sherman, Isaac A., Onondaga, N. Y. Chain-lock.....	374,710	Dec. 13	774	203	41	1207
Sherman, Gardner M., Springfield, Mass. Vaporizer.....	366,693	July 19	1301	348	40	263
Sherman, Jonathan, North Winterport, Me. Screw-propeller.....	359,103	Mar. 8	996	256	38	1094

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Sherman, Lewis P., Biddeford, assignor to G. Moore, Berwick, Me. Machine for drawing in warp-threads.	359,471	Mar. 15	1506	{ 385 386	{ 38	1196
Sherman, Lewis P., assignor to G. Moore, Biddeford, Me. Reed-dent-separating device for warp-drawing machines.	363,689	May 24	2306	599	39	932
Sherman, William H., Hartland, Vt. Pencil-clasp.	366,132	July 5	521	141	40	99
Sherman, Willis S., assignor of one-third to A. Witmeyer, Marinette, Wis. Hame-tug attachment.	363,009	May 17	1343	355	39	737
Sherman, Willis S., and W. K. Moore, assignors to W. C. Wilson, Marinette, Wis. Pneumatic dental plugger.	367,072	July 26	1803	487	40	365
Sherring, Edwin, Manchester, county of Lancaster, England. Bottle-wrapper.	368,978	Aug. 30	2363	628	40	936
Sherry, Patrick P., Lynn, Mass. Shank creasing and coloring machine for boots or shoes.	355,566	Jan. 4	354	95	38	71
Sherwell, George W., <i>et al.</i> (See Esty, William, assignor.)						
Sherwood, Alexander B., Chicago, Ill. Paper-file.	368,498	Aug. 16	1687	449	40	789
Sherwood, Allen, Syracuse, N. Y. Harness.	374,430	Dec. 6	368	97	41	1116
Sherwood, Allen, Syracuse, N. Y. Harness.	374,431	Dec. 6	369	97	41	1116
Sherwood, Arthur K., Thompsonville, assignor to Hartford Carpet Company, Hartford, Conn. Loom for weaving tufted fabrics.	356,213	Jan. 18	1313	347	38	266
Sherwood, Charles W., assignor of one-half to W. L. Sampson, Ulysses, Nebr. Bridge.	363,970	May 31	2718	704	39	1015
Sherwood, Daniel, and G. D. Dudley, assignors to Woods, Sherwood & Co., Lowell, Mass. Tea-strainer.	365,411	June 28	1763	457	39	1446
Sherwood, Eugene, San Francisco, Cal. Sash-fastener.	359,183	Mar. 8	1086	283	38	1111
Sherwood, Frank P., Olivet, Mich. Harrow attachment.	368,018	Aug. 9	994	267	40	649
Sherwood, John W. (See Sherwood, Josiah W. and J. W.)						
Sherwood, John W. and J. W., Grand Rapids, Mich. Veneering-machine.	364,681	June 14	659	176	39	1221
Sherwood, Josiah W. (See Sherwood, John W. and J. W.)						
Sherwood, Josiah W., Grand Rapids, Mich. Billiard-cue.	364,680	June 14	658	176	39	1220
Sherwood, Josiah W. and J. W., Grand Rapids, Mich. Machine for turning carriage-bows.	364,682	June 14	662	177	39	1221
Shevlin, George F. (See Baker and Shevlin.)						
Shewmaker, John W., Terra Haute, Ind. Barrel-carrier.	359,821	Mar. 22	2071	524	38	1315
Shickle, Frederick. (See Brown, Edward H., assignor.)						
Shidler, Harvey L., New Madrid, Mo. Station-indicator.	359,329	Mar. 15	1296	336	38	1157
Shields & Brown. (See Thomson, Frank M., assignor.)						
Shields, Christopher, assignor of one-half to S. G. Flagg & Co., Philadelphia, Pa. Air-valve.	367,324	July 26	2172	584	40	434
Shields, Hamilton L., Troy, N. Y. Horse hay-rake.	368,787	Aug. 23	2088	{ 553 554	{ 40	874
Shields, William, Philadelphia, Pa. Manufacture of bolts.	367,166	July 26	1936	522	40	390
Shiers, Robert, Harmar, Ohio. Hoof-pad.	356,294	Jan. 18	1428	376	38	288
Shill, John, Omaha, Nebr. Car-coupling.	355,567	Jan. 4	356	95	38	72
Shimer, George J. (See Shimer, Applegate, and Shimer.)						
Shimer, Lennia A., <i>et al.</i> , administrators. (See Shimer, Samuel J.)						
Shimer, Milton J., Freemansburg, Pa. Sad-iron.	375,389	Dec. 27	1743	457	41	1409
Shimer, Samuel J., Milton, Pa. Double-tonguing boards.	367,675	Aug. 2	483	133	40	542
Shimer, Samuel J., Milton, Pa. Wood-working machine.	371,380	Oct. 11	913	{ 234 235 236	{ 41	185
Shimer, Samuel J., Milton, G. Applegate and L. A. Shimer, Bethlehem, Pa., administrators of G. J. Shimer, deceased, and assignors to said Samuel J. Shimer. Planer.	367,674	Aug. 2	479	{ 132 133	{ 40	542
Shimp, Jacob A., Ridgeville, Ill. Calendar-clock.	372,575	Nov. 1	433	115	41	552
Shine, George, Bangor, Mich. Gate.	365,870	July 5	158	41	40	32
Shine, Patrick H., Blue Mound, assignor to Mound City Manufacturing Company, Mound City, Kans. Painting-machine.	371,984	Oct. 25	1786	463	41	378
Shinn, John, and O. M. Fagley, assignors of one-half to A. F. Fuller and W. N. Marcus, Philadelphia, Pa. Curtain-fixture.	359,896	Mar. 22	2200	554	38	1337
Shinn, Joseph M., Adamsville, W. Va. Portable desk.	362,589	May 10	735	204	39	617
Shipe, Walter S., Minerva, Ohio. Stove-pipe.	366,515	July 12	1037	281	40	206
Shipley, John, assignor of one-half to G. D. Crum, Council Bluffs, Iowa. Wire-stretcher.	363,176	May 17	1573	414	39	784
Shipman, Madison D., <i>et al.</i> (See Stevens, Sidney M., assignor.)						
Shipman, Madison D., De Kalb, Ill. Button.	357,237	Feb. 8	727	189	38	565
Shippen, Francis, <i>et al.</i> (See Wood, Edward L., assignor.)						
Shires, Michael, and J. Q. A. Kennedy, Centre Hall, Pa. Fire-escape.	374,633	Dec. 13	669	175	41	1186
Shirk, Anna M., Anderson, Ind. Garment-fastener.	371,222	Oct. 11	693	178	41	145
Shirk, Peter E., Blue Ball, Pa. Tobacco-cutter.	356,603	Jan. 25	1866	491	38	379
Shirk, Peter E., Blue Ball, assignor of three-fourths to W. H. Lawson, Honey Brook, Pa. Thill-coupling.	374,634	Dec. 13	670	176	41	1186
Shirley, John T. (See Gorsuch, Benjamin F., assignor.)						
Shirley, Thomas, Newark, N. J. Machine for manufacturing hat-bodies.	373,205	Nov. 15	1407	{ 371 372	{ 41	747
Shiverick, Thomas, and L. J. Wynn, Chicago, Ill. Rotary steam-engine.	357,863	Feb. 15	1638	425	38	744
Shoaf, James M., assignor of one-half to J. A. Snee, West Elizabeth, Pa. Washing-machine.	359,472	Mar. 15	1510	386	38	1196
Shobe, Abraham A., Jerseyville, Ill. Cable railway.	361,787	Apr. 26	2005	521	39	397
Shobe, Edgar D., Petersburg, W. Va. Car-coupling.	370,092	Sept. 20	1124	298	40	1261
Shockley, David W. (See Mahoney and Shockley.)						
Shoemaker, Frank A., Buffalo, N. Y. Belt-shifter.	371,480	Oct. 11	1046	272	41	213
Shoemaker, George W., Dalton, Pa. Ring-spinning machine.	357,864	Feb. 15	1639	426	38	744
Shoemaker, William C., Richmond, Ind. Tension device for fence-machines.	367,245	July 26	2056	555	40	413
Sholder, Louis H., Cleveland, Ohio. Window-screen.	364,309	June 7	143	40	39	1115
Sholes, Frederick, St. Louis, Mo. Hand-stamp.	360,736	Apr. 5	483	123	39	90
Shore, Charles F., Sacramento, Cal. Horse-holding device.	369,082	Aug. 30	2519	668	40	966
Shorey, George L., Lynn, Mass. Ironing-machine.	356,604	Jan. 25	1867	491	38	379
Shorey, Samuel W., Boston, Mass. Fastener for gloves.	363,347	May 17	1799	472	39	826
Shorey, Samuel W., Boston, Mass. Button-fastener.	371,381	Oct. 11	918	236	41	186
Short, Charles G., Milwaukee, Wis. Dry closet.	375,207	Dec. 20	1502	394	41	1354
Short, Charles G., Milwaukee, Wis. Distant-temperature indicator.	375,208	Dec. 20	1503	395	41	1355
Short, Charles G., and N. S. Kellogg, Milwaukee, Wis.; said Kellogg assignor to said Short. Cold-air box.	361,457	Apr. 19	1524	395	39	300
Short, John N., assignor to Cambria Iron Company, Johnstown, Pa. Apparatus for forming horse-rake teeth.	373,949	Nov. 29	2506	{ 672 673	{ 41	975
Short, John N., Johnstown, Pa., assignor to Cambria Iron Company, of Pennsylvania. Apparatus for forming springs, &c.	375,577	Dec. 27	2000	520	41	1459

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Short, Robert B., Union Mills, Ind. Railway-switch.....	372,715	Nov. 8	634	173	41	601
Short, Sidney H., Denver, Colo. Dynamo-electric machine	356,667	Jan. 25	1960	514	38	397
Short, Sidney H., assignor to United States Electric Company, Denver, Colo. Electric alarm and signal bell	357,865	Feb. 15	1641	427	38	745
Short, Sidney H., assignor to United States Electric Company, Denver, Colo. Apparatus for lighting cars by electricity	369,561	Sept. 6	339	94	40	1099
Short, Sidney H., and J. W. Nesmith, Denver, Colo. Electrical railway	362,323	May 3	351	96	39	541
Short, William. (See Baxter, Daniel N., assignor.)						
Short, William A., and E. Lalime, Malone, N. Y. Balanced valve	367,557	Aug. 2	294	83	40	507
Shorter, Dennis W., Union Springs, assignor of one-half to G. Reed, Rochester, N. Y. Feed-rack	363,089	May 17	1450	384	39	758
Shortess, Stephen T., Vinton, Iowa. Device for overcoming dead-centers.....	356,558	Jan. 25	1810	474	38	368
Shortess, Stephen T., Vinton, Iowa. Device for overcoming dead-centers.....	366,433	July 12	919	249	40	182
Shoup, James C., <i>et al.</i> (See George, William F., assignor.)						
Showalter, Harvey F., Denver, Pa. Gate	357,046	Feb. 1	425	113	38	500
Showman, Nannie M., Newark, Ohio. Combined hair curler and crimper.....	369,035	Aug. 30	2444	649	40	952
Shotts, Orren A., assignor to himself and H. Stivers, Osceola, Iowa. Check-rowing attachment for corn-planters	363,555	May 24	2107	{ 546 547 }	{ 39 39 }	{ 894 894 }
Shoudy, Israel, Jr., and L. L. Miller, Paw Paw, Ill. Apparatus for cooking and steaming food	371,101	Oct. 4	528	134	41	104
Showers, John A., Coin, Iowa. Shield for listed corn	363,426	May 24	1910	502	39	856
Shrady, John, <i>et al.</i> (See Turnberger, Louis, assignor.)						
Shreffler, Samuel, Jr., Joliet, Ill. Door-hanger	355,724	Jan. 11	595	155	38	127
Shreve, C. D., <i>et al.</i> (See Anson, Gustin M., assignor.)						
Shreve, Enoch A., Kenoma, Mo. Kitchen-cabinet	362,590	May 10	737	205	39	618
Shriner, Henry C., assignor of one-half to J. Elfstrom, Randolph, Kans. Fifth-wheel.....	366,637	July 12	1221	326	40	241
Shriver, Aaron J., assignor to S. M. Shriver, New York, N. Y. Trousers.....	366,516	July 12	1038	282	40	206
Shriver, Frederick, Grand Rapids, Mich. Tubular hot-air furnace.....	361,841	Apr. 26	2083	542	39	411
Shriver, Frederick, Grand Rapids, Mich. Combined steam and hot-air furnace	361,842	Apr. 26	2085	543	39	412
Shriver, Robert, <i>et al.</i> (See Allfree, James B., assignor.)						
Shriver, S. M. (See Shriver, Aaron J., assignor.)						
Shriver, William, and W. M. Peard, Philadelphia, Pa.; said Shriver assignor to said Peard. School seat and desk	358,702	Mar. 1	420	101	38	982
Shrock, Amos E. (See Orther, Charles, assignor.)						
Shroyer, Silas, Moore's Vineyard, Ind. Fruit-picker.....	374,375	Dec. 6	294	77	41	1102
Shufelt, John H., Joliet, Ill. Road-cart	367,854	Aug. 9	756	203	40	603
Shuler, James C., St. Joseph, Mich. Furnace-front for boilers	371,382	Oct. 11	920	237	41	186
Shuler, William A., New Dover, Ohio. Reclining-chair	366,980	July 19	1678	451	40	333
Shull, Jacob W., Spring Church, Pa. Harvester cutter-bar.....	366,742	July 19	1369	366	40	276
Shull, John A., Poplar Bluff, Mo. Saw-tooth-swaging device	357,866	Feb. 15	1642	427	38	745
Shults, Frank J., <i>et al.</i> (See Schad, Barnhard, assignor.)						
Shults, George J. (See Gray, Clinton, assignor.)						
Shults, George J., Avoca, N. Y. Adjustable chair-back	360,622	Apr. 5	333	82	39	63
Shults, Joseph C., <i>et al.</i> (See Schad, Barnhard, assignor.)						
Shultz, Levi. (See Deeds and Dawson, assignors.)						
Shuman, Charles, Rockford, Ill. Whiffletree-hook	358,079	Feb. 22	1939	511	38	806
Shuman, Charles, Rockford, Ill. Seat-lock	358,895	Mar. 8	717	177	38	1040
Shupe, Aaron. (See Durant, Linn, and Shupe.)						
Shurtz, William D., Baltimore, Md. Temporary elastic horseshoe	359,897	Mar. 22	2201	554	38	1337
Sibley, Augustine W., Stamford, Conn. Thill-coupling	358,577	Mar. 1	248	58	38	949
Sibley, Augustine W., and J. H. Combs, Stamford, Conn. Meat or bale hook.....	364,967	June 14	1102	287	39	1301
Sibley, Edward L., Bennington, Vt. Riveting-machine	358,224	Feb. 22	2149	566	38	844
Sibley, Edward L., Bennington, Vt. Rivet.....	358,225	Feb. 22	2150	567	38	844
Sibley, Edwin E., and C. Allen, assignors to American Fire Hose Manufacturing Company, Chelsea, Mass. Extension-ladder	374,561	Dec. 6	567	149	41	1156
Sibley, Horace N., Midway, La. Cotton chopper and cultivator.....	367,558	Aug. 2	295	83	40	507
Sibley, John L. B., assignor of one-half to E. C. Frisbie, Hartford, Conn. Torch.....	362,905	May 10	1193	319	39	702
Sibley, Lyman E. (See Eccleston and Sibley.)						
Siccardi, Giovanni B., New York, N. Y. Car brake and starter.....	364,310	June 7	145	41	39	1116
Sickels, Frank. (See Budd and Sickels.)						
Sidén, Johan T. B., Nybo, Walbo, Sweden. Tool for making spiral springs.....	360,623	Apr. 5	334	82	39	64
Sidén, Johan T. B., Nybo, Walbo, assignor to Aktiebolaget Hastskyddare, Stockholm, Sweden. Spring draft or tug-link	357,419	Feb. 8	969	255	38	611
Sidensol, Theodore, assignor of one-half to C. L. Halstead, La Crosse, Wis. Canal-lock...	368,860	Aug. 23	2191	{ 581 582 }	{ 40 40 }	{ 894 894 }
Sidnell, William E. (See Dunn and Sidnell.)						
Sieb, Fred, Nashville, Ill. Combined flour bin and sifter	370,093	Sept. 20	1125	298	40	1261
Siebel, John E., Chicago, Ill. Safeguard against boiler-explosions	355,793	Jan. 11	696	182	38	144
Sieber, Joseph, Columbus, Ohio. Embalming-table	364,051	May 31	2821	732	39	1036
Siebert, Hans. (See Weinberg and Siebert.)						
Sieffkin, Dedrick R. (See Horton and Sieffkin.)						
Siegel, Andrew, Hyde Park, Mass. Die for forming ax-blanks	375,573	Dec. 27	1994	519	41	1458
Siegel, John, Montreal, Quebec, Canada. Railway-rail joint	355,725	Jan. 11	597	156	38	127
Siegenthaler, George B., Wooster, Ohio. Manufacture of boots and shoes	366,743	July 19	1370	367	40	276
Siem, Jacob, Homburg-vor-der-Höhe, Germany. Forcing-frame	374,499	Dec. 6	470	121	41	1136
Siemang, Stefan, Vienna, Austria-Hungary. Pneumatic foot for lamps	371,281	Oct. 11	775	199	41	160
Siemens Lungren Company. (See Gordon, Thomas, assignor.)						
Siemon, John. (See Musgrave, James H., assignor.)						
Siereveld, Maximilian. (See Stallman, Granville H., assignor.)						
Sigel, William H., <i>et al.</i> (See Randall, Joseph S., assignor.)						
Silber, Albert M., London, England. Overhead or ceiling lamp.....	359,364	Mar. 15	1347	347	38	1166
Silber, Albert M., London, England. Oil-lamp	371,795	Oct. 18	1508	389	41	314
Sill, Daniel M. (See Williams, Harry M., assignor.)						
Sillman, George D. (See Morrison, Andrew J., assignor.)						
Sillman, Robert F., Troy, N. Y. Underground cable for telegraph-wires.....	366,263	July 12	707	192	40	141
Silsby, Gustavus L., Miles Grove, Pa. Transplanter.....	362,465	May 3	557	154	39	581
Silsby Manufacturing Company. (See Medden, Edwin, assignor.)						
Silsby Manufacturing Company. (See Severson, William H., assignor.)						
Silsby, Seth L., Quincy, Ill. Hitching device	371,102	Oct. 4	529	134	41	105
Silver & Co. (See Fitzgerald and Silver, assignors.)						
Silver & Deming Manufacturing Company. (See Deming, Frank B., assignor.)						
Silver & Deming Manufacturing Co. (See Potter and Betts, assignors.)						
Silver, Herman L., Denver, Colo. Burglar-alarm	260,923	Apr. 12	747	196	39	145

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Silver, John S. (See Burns, Samuel A., assignor.)						
Silver Plate Cutlery Company. (See Brittin, Frederick W., assignor.)						
Silver, Robert. (See Fraley, William K., assignor.)						
Silver, William H. (See Fitzgerald and Silver.)						
Silvermann, William. (See Harris, Charles R., assignor.)						
Sim, Edward G., and R. H. Bishop, Smithfield, county of Middlesex, England. Trousers-stretcher.	367,559	Aug. 2	295	84	40	507
Sime, Alexander, and W. Moore, Emmettsburg, Iowa. Car-coupling.	372,390	Nov. 1	160	46	41	500
Simler, Phillip, Allenville, Mo. Attachment for railway-ties.	374,090	Nov. 29	2714	728	41	1018
Simmonds, William, Yonkers, N. Y. Book-holder.	369,475	Sept. 6	222	63	40	1075
Simmonds, William, assignor of two-thirds to L. E. and W. H. Belknap, Yonkers, N. Y. Hat-stretching machine.	375,013	Dec. 20	1232	321	41	1302
Simmons, A. R., et al. (See Still, John W., assignor.)						
Simmons, Andrew A., Greenvale, Ill. Tobacco-planter.	355,478	Jan. 4	242	64	38	49
Simmons, Clarence A., Norwood, Mass. Boring-tool.	374,432	Dec. 6	370	97	41	1116
Simmons, Edward. (See Goodrich and Corwin, assignors.)						
Simmons, James L., Philadelphia, Pa. Attachment for wood-molding machines.	368,623	Aug. 23	1855	496	40	830
Simmons, Joseph A. (See Green, Alexander, assignor.)						
Simmons, Oliver M., assignor of one-half to F. T. Robinson, Kansas City, Mo. Retort for the mixture of furnace-gases.	368,979	Aug. 30	2364	628	40	937
Simmons, Simon, assignor to L. M. Davis, London, county of Middlesex, England. Walking-stick, umbrella-handle, &c.	372,177	Oct. 25	2084	534	41	431
Simmons, Thomas, Hartford, Conn. Truss.	374,091	Nov. 29	2715	728	41	1018
Simmons, William A., Excelsior, Mo. Paper-bag holder.	370,563	Sept. 27	1817	483	40	1397
Simmons, William H., Syracuse, assignor of one-half to P. S. Hadger, Auburn, N. Y. Carriage.	358,226	Feb. 22	2151	567	38	844
Simmons, William H., Syracuse, assignor of one-half to P. S. Hadger, Auburn, N. Y. Spring-vehicle.	358,227	Feb. 22	2152	567	38	844
Simmons, Zalmon G. (See Seymour, William S., assignor.)						
Simms, James F. (See Costello, John, assignor.)						
Simon, Abraham, Cincinnati, Ohio. Portable sanitary dinner-bucket.	372,337	Nov. 1	76	23	41	486
Simon, Alfred W., Akron, assignor to himself and S. B. Butts, Buffalo, N. Y. Combined photographic-camera shutter and diaphragm.	369,997	Sept. 13	979	258	40	1227
Simon, Henry. (See Grüneberg and Blum, assignors.)						
Simon, Joseph, Stürzelbronn, near Bitsch, Prussia, Germany. Seed-planter.	370,564	Sept. 27	1819	{ 483 } { 484 }	{ 40 }	1397
Simon, Philippe, Green Bay, Wis. Tuyere.	369,746	Sept. 13	590	160	40	1155
Simon, Robert, Weehawken, N. J. Preparing trams for silk goods. (Reissue).	10,809	Feb. 22	2415	642	38	895
Simon, Robert, Weehawken, N. J. Woven silk fabric. (Reissue).	10,810	Feb. 22	2416	642	38	896
Simon, Robert, Weehawken, N. J. Making filling or tram for silk fabrics.	358,489	Mar. 1	95	24	38	921
Simon, Simon B., New York, N. Y. Button.	373,250	Nov. 15	1469	388	41	759
Simon, William, Baltimore, Md. Making potassium bichromate.	366,036	July 5	396	.....	40	75
Simonds, Alvan A., Dayton, Ohio. Machine for drying paper.	366,892	July 19	1566	419	40	313
Simonds, Alvan A., Dayton, Ohio. Paper-drying machine.	366,893	July 19	1567	420	40	313
Simonds, Frank A., Grand Rapids, Mich. Machine for burnishing photographs.	371,223	Oct. 11	695	178	41	145
Simonds, George F., Fitchburg, Mass. Rolled conical projectile.	358,627	Mar. 1	310	74	38	961
Simonds, George F., Fitchburg, Mass. Die for making rolled forgings.	358,628	Mar. 1	311	74	38	961
Simonds, George F., Fitchburg, Mass. Die for making rolled forgings.	358,629	Mar. 1	312	75	38	961
Simonds, Nathan J., Woburn, Mass., assignor to Triumph Bottle Washing Machine Company, Saco, Me. Machine for washing bottles.	373,315	Nov. 15	1563	414	41	776
Simons, Ernest, et al. (See Stevens, John C., assignor.)						
Simons, Howard T., Cambridge, Ohio. Sleigh-bell fastener.	364,311	June 7	146	41	39	1116
Simons, Richard L., assignor of one-half to J. Anderson, Toledo, Ohio. Fabric-turfing implement.	358,490	Mar. 1	96	24	38	921
Simonson, John H., Oyster Bay, assignor of one-half to H. M. Willis, Williston, N. Y. Treadle for grindstones.	371,856	Oct. 18	1603	414	41	334
Simpkin, William, Richmond, Va. Safety-valve.	364,052	May 31	2822	732	39	1036
Simpkin, William, Richmond, Va. Gas-scrubber.	372,178	Oct. 25	2085	534	41	431
Simpkins, Alvin T., St. Louis, Mo. Baker's oven.	355,568	Jan. 4	357	95, 96	38	72
Simpson, Abijah, assignor to himself and W. McDonald, Lapeer, Mich. Baling-press.	373,617	Nov. 22	2035	542	41	876
Simpson, Anson D., Troy, and D. Strain, Kinderhook, N. Y. Railway time-signal.	360,056	Mar. 29	2464	627	38	1393
Simpson, Anthony C. (See Stetler and Klingler, assignors.)						
Simpson, Burwell C. H., Lebanon, Tenn. Vehicle-hub.	368,358	Aug. 16	1476	393	40	749
Simpson, Ellis R., S. B. Mott, Scranton, and M. Speicher, Archibald, Pa. Lubricator.	370,979	Oct. 4	368	91	41	73
Simpson, George F., et al. (See Morlock, Albert, assignor.)						
Simpson, George L. J., assignor to N. H. Simpson, Quanah, Tex. River steamboat.	374,635	Dec. 13	671	176	41	1186
Simpson, Hall, Miller & Company. (See Hawkins, Westel E., assignor.)						
Simpson, James, Liverpool, county of Lancaster, England. Lid for metallic drums.	374,276	Dec. 6	142	38	41	1074
Simpson, James C., et al. (See Leggo, William A., assignor.)						
Simpson, James H., assignor to Carnegie, Phipps & Co., (limited), Pittsburg, Pa. Manufacture of draw-bars.	369,263	Aug. 30	2743	731	40	1012
Simpson, James H., assignor to Carnegie, Phipps & Co., (limited), Pittsburg, Pa. Manufacture of draw-bars.	369,264	Aug. 30	2745	732	40	1012
Simpson, James S., et al. (See Morlock, Albert, assignor.)						
Simpson, John E., and J. H. Shaffer, Butlerville, Ohio. Automatic grain-weighing apparatus.	368,310	Aug. 16	1415	374	40	737
Simpson, John S., Austin, Tex. Device for cleaning gun-barrels, flues, &c.	358,304	Feb. 22	2258	595	38	865
Simpson, Luther R., assignor to W. Loughridge, Baltimore, Md. Apple-corer.	358,792	Mar. 1	540	133	38	1004
Simpson, Nannie H. (See Simpson, George L. J., assignor.)						
Simpson, Orville. (See Freeman, Claudius G., assignor.)						
Simpson, Thomas J., Worthington, Minn. Mechanism for propelling vessels.	373,492	Nov. 22	1841	490	41	841
Sims, Abner Z., Union City, Tenn., assignor of one-half to W. A. Tillman, Grape Vine, Tex. Flood-fence.	358,491	Mar. 1	103	25	38	922
Sims, John F., and W. B. Morris, San Francisco, Cal. Beam-connection.	368,019	Aug. 9	995	267	40	649
Sims, William. (See Bryant, Jerome F., assignor.)						
Sims, William L., et al. (See Gray, John L., assignor.)						
Sims, Winfield S., Newark, N. J. Coiling ropes, &c., and preventing twisting or kinking thereof while being paid from a coil.	374,209	Dec. 6	57	15	41	1058
Simson, Salomon, Mettmann, Prussia, Germany. Lock.	365,152	June 21	1384	366	39	1361
Simsrott, Henry A., Chicago, Ill. Easel.	360,737	Apr. 5	484	124	39	91
Sinclair, Angus. (See Player, John, assignor.)						
Sinclair, Susan L., Alleghany, Pa. Car-wheel.	365,546	June 28	1973	514	39	1487
Sindall, Charles A. (See Jones, Reuben, assignor.)						
Singer, Abram. (See Kirby and Singer.)						
Singer, Ananias, Lovelock, Nev. Wagon-reach.	362,231	May 3	238	69	39	519

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Singer, George. (See Ruttimann and Singer.)						
Singer, George, and R. H. Lea, Coventry, county of Warwick, England. Velocipede.....	373,570	Nov. 22	1969	523	41	862
Singer, Isaac L., New York, N. Y. Churn.....	361,458	Apr. 19	1526	395	39	300
Singer Manufacturing Company of New Jersey. (See Diehl, Philip, assignor.)						
Singer Manufacturing Company of New Jersey. (See Douglas, John, assignor.)						
Singer Manufacturing Company of New Jersey. (See Greene, James G., assignor.)						
Singer Manufacturing Company of New Jersey. (See Inslee, William H., assignor.)						
Singer Manufacturing Company of New Jersey. (See Jordan, Charles S., assignor.)						
Singer Manufacturing Company of New Jersey. (See Miller, Lebbeus B., assignor.)						
Singer Manufacturing Company of New Jersey. (See Ströbeck, Frans T., assignor.)						
Singer, Wilhelm, Berlin, Germany. Folding carriage.....	363,427	May 24	1911	502	39	856
Singer, William F., Carthage, assignor of one-half to H. C. Anthony, Watertown, N. Y. Electric thermostat or fire-alarm.....	360,823	Apr. 5	600	158	39	113
Singer, William F., Carthage, assignor of one-half to H. C. Anthony, Watertown, N. Y. Automatic fire-alarm system.....	360,824	Apr. 5	601	158	39	113
Singerly, William M. (See Snyder, Theodore H. and E. V., assignors.)						
Singletary, Don, Union City, Tenn. Thill-tug.....	370,899	Oct. 4	233	59	41	45
Singleton, George. (See Baker, Craig, and Singleton.)						
Singleton, George, Dover, N. J. Tension device for silk-twisting machines.....	359,184	Mar. 8	1087	283	38	1111
Singleton, Jack, St. Louis, Mo. Clock or watch dial.....	358,754	Mar. 1	490	120	38	994
Sink, Reuben H., Grass Valley, Cal. Garment-supporter.....	359,365	Mar. 15	1348	348	38	1166
Sink, Reuben H., Grass Valley, and I. Pollock, Redwood City, Cal. Lamp-shade, support.....	363,916	May 31	2619	680	39	997
Sinn, George P. (See Avery, George V., assignor.)						
Sinnamon, John. (See O'Hara, Lewis, assignor.)						
Sipe, Conrad A. (See Watson and Sipe.)						
Sipe, Conrad A., Fairmont, W. Va. Bell-cord coupling.....	364,312	June 7	147	41	39	1116
Sipe, James B., et al. (See Farmer, Bovard, and Moon, assignors.)						
Sisson, Catharine, Garnett, Kans. Garment-supporter.....	359,366	Mar. 15	1349	348	38	1166
Sisum, William H. H., Brooklyn, N. Y. Machine for unloading and unbunching match-sticks.....	355,416	Jan. 4	163	43	38	33
Sisum, William H. H., Brooklyn, N. Y. Equalizer for cables of cable railways.....	361,378	Apr. 19	1422	367	39	280
Sisung, James, Jr., Detroit, assignor of one-half to J. Sisung, Sr., Newport, Mich. Gate ..	369,968	Sept. 13	931	{ 247 } { 248 }	{ 40 }	1219
Sitwell, Cecil F. (See Sitwell, Herbert W. and J., assignors.)						
Sitwell, Herbert W. and J., assignors of one-third to C. F. Sitwell, Richmond, Va. Surgical water-bandage.....	367,855	Aug. 9	757	203	40	603
Sitwell, Juliet. (See Sitwell, Herbert W. and J.)						
Skandia Plow Company. (See Smith, Joseph D., assignor.)						
Skanks, George W., assignor to himself and G. D. Emery, Chelsea, Mass. Umbrella-stand.....	360,365	Mar. 29	2937	746	38	1479
Skau, Carl J., Racine, Wis. Folding cot.....	364,053	May 31	2823	732	39	1036
Skeen, Kenyon, Kansas City, Mo. Gate.....	361,331	Apr. 19	1351	348	39	267
Skellenger, Theodore P., Morristown, N. J. Gate-latch.....	366,264	July 12	708	192	40	142
Skelton, John C., Canton, Ohio. Copy-holder for type-writing machines.....	372,495	Nov. 1	306	84	41	529
Skidmore, David M. (See Lowden, Thomas, assignor.)						
Skiff, G. H. (See Vivian, John, assignor.)						
Skiff, William J., assignor to W. Slosson, Chicago, Ill. Making a compound resembling butter.....	373,618	Nov. 22	2037	.....	41	877
Skiles, Robert L., Denver, Colo. Three-row combination corn-planter and row-checker.....	357,047	Feb. 1	426	114	38	501
Skillen, John W. (See Bascom, Austin T., assignor.)						
Skillin, Thomas J., Oak Park, Ill. Grain-scoop.....	364,313	June 7	148	41	39	1116
Skillings, Enoch. (See Cumnock and Skillings.)						
Skilton, James A., trustee. (See Birge, Henry W., assignor.)						
Skilton, James A., trustee. (See Hanson, William, assignor.)						
Skinner, Charles E., Yonkers, N. Y. Machine for edging sheet metal.....	358,991	Mar. 8	847	214	38	1065
Skinner, Halcyon, Yonkers, N. Y. Motor-truck for street-cars.....	371,383	Oct. 11	921	237	41	187
Skinner, James N. (See Butler, Calvin L., assignor.)						
Skinner, John, Newman, Ill. Road grader and leveler.....	364,445	June 7	338	93	39	1153
Skinner, John, assignor of two-thirds to O. Stowe and A. D. McCall, Flint, Mich. Car-coupling.....	364,867	June 14	958	{ 252 } { 253 }	{ 39 }	1275
Skinner, John G., Oswego, N. Y. Ice-creeper.....	362,188	May 3	180	54	39	508
Skinner, John G., Oswego, N. Y. Ice-creeper.....	371,384	Oct. 11	923	237	41	187
Skinner, John L., Waxahachie, assignor of one-half to J. T. Sullivan, Corsicana, Tex. Shoe-upper blank.....	370,980	Oct. 4	369	91	41	73
Skinner, Joseph J., Boston, Mass. Electric lamp.....	370,423	Sept. 27	1600	428	40	1359
Skinner, Joseph J., Boston, Mass. Electric lamp.....	370,424	Sept. 27	1604	428	40	1359
Skinner, Taber, Philadelphia, Pa. Extension-table.....	373,316	Nov. 15	1564	{ 414 } { 415 }	{ 41 }	777
Slade, Frederick J., Trenton, N. J. Punching-machine.....	364,379	June 7	232	66	39	1133
Slappey, William A., assignor of two-thirds to M. L. Cooper and F. C. Houser, Fort Valley, Ga. Whiffletree-iron.....	368,735	Aug. 23	2022	536	40	862
Slater, George L., assignor of one-half to J. E. Barnes, Buchanan, Mich. Table-leaf support.....	357,506	Feb. 8	1094	289	38	634
Slater, Henry B., assignor to Detroit Motor Company, Detroit, Mich. Armature.....	374,711	Dec. 13	775	203	41	1207
Slaton, Clifton H., assignor to himself, D. A. Morton, J. H. Prewitt, and J. T. Adams, Madisonville, Ky. Car-coupling.....	365,641	June 28	2106	549	39	1512
Slattery, Marmaduke M. M., New York, N. Y., assignor to Sun Electric and Illuminating Company, Manchester, N. H. Terminal for incandescent lamps.....	356,795	Feb. 1	76	22	38	438
Slattery, Marmaduke M. M., assignor to Sun Electric Light Company, Woburn, Mass. Contact-piece for electrical apparatus.....	356,796	Feb. 1	77	22	38	438
Slattery, Marmaduke M. M., Woburn, Mass., assignor to Sun Electric Company, of Maine. Induction-coil.....	358,415	Feb. 22	2404	639	38	893
Slattery, Marmaduke M. M., assignor to Sun Electric Light Company, Woburn, Mass. Sealing in of wires for incandescent lamps.....	358,492	Mar. 1	103	25	38	923
Slattery, Marmaduke M. M., Woburn, Mass., assignor to Sun Electric Company, of Maine. Regulator for induction-coils.....	358,493	Mar. 1	104	25	38	923
Slattery, Marmaduke M. M., Woburn, Mass., assignor to Sun Electric Company, of Maine. Induction-coil.....	358,793	Mar. 1	541	133	38	1005
Slattery Marmaduke M. M., Woburn, Mass., assignor of one-half to Fort Wayne Electric Light Company, Fort Wayne, Ind. Cut-out for electrical-distribution apparatus.....	375,014	Dec. 20	1233	322	41	1302
Slaughter, Robert K., Brooklyn, N. Y. Shade-exhibitor.....	369,476	Sept. 6	223	63	40	1075
Slayback, Charles M. and W. L., Folsom, Cal. Header.....	358,630	Mar. 1	312	75	38	961
Slayback, William L. (See Slayback, Charles M. and W. L.)						
Slayton, George A., assignor to Falls Rivet Company, Cuyahoga Falls, Ohio. Friction-clutch.....	367,856	Aug. 9	758	204	40	604

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Slayton, Leonard K. (See Whiting, Stiles H., assignor.)						
Slayton, Samuel, assignor to A. M. Billings, Chicago, Ill. Lathe	367,246	July 26	2058	555	40	413
Sleeper, Andrew J. (See Carrington and Sleeper.)						
Sleeper, Charles W., Coaticook, Quebec, Canada, assignor to Automatic Can Machine Com- pany, Boston, Mass. Can-soldering machine	372,871	Nov. 8	891	{ 239 240 }	{ 41 41 }	644
Sleeper, Charles W., Coaticook, Quebec, Canada, assignor to Automatic Can Machine Com- pany, Boston, Mass. Can-soldering machine	372,872	Nov. 8	896	241	41	644
Sleeper, John F., Jersey City, N. J. Box for bottles	363,690	May 24	2308	599	39	932
Sleigh, Charles F., and H. V. Smith, Parkersburg, W. Va. Rotary engine	355,479	Jan. 4	244	64	38	49
Sleight, William E., and G. J. Bremer, Kalamazoo, Mich. Treadle	371,385	Oct. 11	924	238	41	187
Slentz, Alburice O., assignor to Peerless Reaper Company, Canton, Ohio. Reel-support for harvesters	365,642	June 28	2108	{ 549 550 }	{ 39 39 }	1512
Slentz, Alburice O., assignor to Peerless Reaper Company, Canton, Ohio. Wheel	370,714	Sept. 27	2049	544	40	1441
Slessinger, Lewis, San Francisco, Cal. Water-proof boot	370,498	Sept. 27	1724	457	40	1380
Slifer, Charles F., Philadelphia, Pa. Combined refrigerator and water cooler	366,694	July 19	1301	348	40	264
Slipher, William L., and G. W. Earhart, Mulberry, Ind. Ironing-board	369,210	Aug. 30	2672	710	40	998
Sloan, Edward D., Denver, Colo. Vise-equalizer	370,213	Sept. 20	1304	347	40	1295
Sloan, Elisha C., assignor to Chadwick Lead Works, Boston, Mass. Machine for covering conductors with lead	355,843	Jan. 11	766	201	38	156
Sloan, Elisha C., assignor to Chadwick Lead Works, Boston, Mass. Apparatus for incas- ing wires with lead	355,844	Jan. 11	767	202	38	156
Sloan, John O. (See Campbell, George P., assignor.)						
Slonecker, Abiram J., Farmersville, Mo. Gate	370,900	Oct. 4	235	59	41	46
Slooter, Adrian F. (See Slooter, Frank and A. F.)						
Slooter, Frank and A. F., Holland, Mich.; said A. F. Slooter assignor to said Frank Slooter. Portable clothes-reel	374,376	Dec. 6	294	78	41	1102
Sloppy, William, New Kiowa, Kans. Cooler for beer and other liquids	363,177	May 17	1574	414	39	784
Sloppy, William, Kiowa, Kans. Bed-slat support	371,985	Oct. 25	1787	464	41	379
Slosson, William. (See Skiff, William J., assignor.)						
Slote, William, Brooklyn, assignor to D. W. and J. D. Clark, New York, N. Y. Reel	360,624	Apr. 5	335	83	39	64
Slusser, Henry, assignor of one half to H. Small, York, Pa. Machine for coating paper with sand, emery, &c	366,037	July 5	397	108	40	75
Smadbeck, Henrietta, New York, N. Y. Sleeve-protector	359,330	Mar. 15	1298	337	38	1157
Small, Chauncey L., New Paris, Pa. Brake-block holder	355,951	Jan. 11	942	246	38	190
Small, Chester C., Malden, assignor to F. F. Raymond, 2d, Newton, Mass. Nail making and distributing machine	375,209	Dec. 20	1504	{ 395 396 }	{ 41 41 }	1355
Small, Curry S., Cooperstown, Pa. Combined book-rest and chart-support	370,824	Oct. 4	97	26	41	21
Small, George E., et al. (See Buxton, Levi W., assignor.)						
Small, Henry. (See Slusser, Henry, assignor.)						
Small, Henry J., and J. McNaughton, Brainerd, Minn. Shrinkage-gage	367,454	Aug. 2	133	38	40	476
Small, James H., New York, N. Y. Riding-gallery	371,386	Oct. 11	925	238	41	187
Small, William T., and H. H. Warner, Tacoma, Wash. Ter. Self-adjusting rod-packing	356,014	Jan. 11	1026	270	38	207
Small, William T., and H. H. Warner, Tacoma, Wash. Ter. Piston-rod packing	369,562	Sept. 6	341	94	40	1099
Small, Wilson, Brooklyn, N. Y. Book-rest	372,496	Nov. 1	308	85	41	529
Smalley, Clarence C., Manitowoc, Wis. Securing pulleys to shafts	357,238	Feb. 8	729	189	38	565
Smalley, Clarence C., Manitowoc, Wis. Tread-power governor	357,239	Feb. 8	729	189	38	565
Smalley, William W., Bound Brook, assignor to Graphite Lubricating Company, Jersey City, N. J. Journal-box	366,981	July 19	1679	451	40	334
Smallman, James W., Nuneaton, county of Warwick, England. Velocipede	366,638	July 12	1222	326	40	241
Smallwood, John H., assignor to H. H. Freeman & Co., Paterson, N. J. Mechanical move- ment	373,317	Nov. 15	1566	415	41	777
Smalstig, Fredrick C., Allegheny City, Pa. Cigar-bunching machine	359,473	Mar. 15	1511	387	38	1197
Smead, Charles R., St. Paul, Minn. Pocket check-book	368,020	Aug. 9	996	268	40	649
Smead, Isaac D., Toledo, Ohio. Dry closet	363,971	May 31	2720	704	39	1015
Smead, Isaac D., Toledo, Ohio. Hot-air furnace	370,981	Oct. 4	369	91, 92	41	73
Smeader, Otto, South New Berlin, N. Y. Cover for milk-cans	363,090	May 17	1452	384	39	758
Smeeton, Henry, Ottawa, Ill. Metallic shingle	369,477	Sept. 6	224	63	40	1076
Smelley, William F. (See Ellis, William C., assignor.)						
Smiley, George, Kalamazoo, Mich. Wagon	367,247	July 26	2061	556	40	414
Smiley, Henry, Boston, Mass. Bit-stock	356,214	Jan. 18	1314	347	38	266
Smillie, George W., Newark, N. J. Car-coupling	361,459	Apr. 19	1526	395	39	300
Smillie, George W., Newark, N. J. Car-coupling	361,460	Apr. 19	1528	396	39	301
Smith, A. Buttles, assignor to himself, J. W. and E. Dexter, and E. G. Knight, New York, N. Y. Stock-indicator	358,896	Mar. 8	718	{ 177 178 }	{ 38 38 }	1041
Smith, Aaron F. (See Seaver, Augustus, assignor.)						
Smith, Aaron F., Lynn, Mass. Manufacture of boots or shoes	373,694	Nov. 22	2145	574	41	899
Smith, Aaron F., Lynn, assignor of two-thirds to A. Seaver, Boston, and C. Curtis, New- ton, Mass. Lasting boots or shoes	371,713	Oct. 18	1392	359	41	291
Smith, Abia B., Pittsburg, Pa. Machine for splitting blanks for shovels	372,497	Nov. 1	308	85	41	529
Smith, Albert H., Beaulieu, Dak. Ter. Bag-holder	361,461	Apr. 19	1529	396	39	301
Smith, Albert M., Brooklyn, N. Y. Hair-curler	365,449	June 28	1822	474	39	1456
Smith, Albert U., assignor to N. Sperry, Seymour, Conn. Countersink	371,387	Oct. 11	926	238	41	188
Smith, Alonzo E., Frankfort, Dak. Ter. Straw-burning stove	368,788	Aug. 23	2092	554	40	874
Smith, Alphonso B. (See Thomas, Douglas, Smith, and Twing.)						
Smith, Andrew, assignor of one-half to L. Hansen, Wilmington, N. C. Distilling wood	374,636	Dec. 13	673	{ 176 177 178 }	{ 41 41 41 }	1187
Smith, Andrew J., Wheatland, Oreg. Plow	372,179	Oct. 25	2086	534	41	431
Smith, Augustus. (See Myers and Smith.)						
Smith, Augustus, Laurin, Mont. Ter. Holdback-iron for wagon-tongues	359,367	Mar. 15	1350	348	38	1166
Smith, Benjamin O., Windsor, Mo. Rack for displaying lamp-chimneys	371,986	Oct. 25	1788	464	41	379
Smith, Brainard F., Sacramento, Cal. Adding-machine	360,118	Mar. 29	2575	654	38	1413
Smith, Brainard F., Sacramento, and A. E. Shattuck, San Francisco, Cal. Adding-ma- chine	363,972	May 31	2721	705	39	1016
Smith, Bryant, and H. C. Jenkins, Brownsville, Ala. Fertilizer-distributer	358,171	Feb. 22	2076	546	38	830
Smith, Charles, Belleville, N. J. Lathe	368,021	Aug. 9	997	268	40	649
Smith, Charles A. (See Emerick and Smith.)						
Smith, Charles A., San Francisco, Cal. Propelling apparatus for vessels	358,170	Feb. 22	2075	546	38	829
Smith, Charles A., Minerva, Ohio. Stove-pipe	369,211	Aug. 30	2673	711	40	998
Smith, Charles A., Toledo, Ohio. Cupola for freight-cars	372,937	Nov. 8	982	266	41	661
Smith, Charles A. and C. M., assignors to L. J. Bird, trustee, Boston, Mass. Ventilating railway-cars	366,520	July 12	1044	284	40	207
Smith, Charles A. and C. M., assignors to L. J. Bird, trustee, Boston, Mass. Lining for railway-cars	366,521	July 12	1046	285	40	208

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Smith, Charles A. H., Oakland, Cal. Kitchen utensil	369,083	Aug. 30	2521	668	40	966
Smith, Charles D., and R. H. Thompson, Hartsell's, Ala. Padlock	371,796	Oct. 18	1509	389	41	315
Smith, Charles E., and L. C. Kendall, Frankford, Mo. Device for releasing animals	361,726	Apr. 26	1914	496	39	380
Smith, Charles F. (See Vogley, Henry, assignor.)						
Smith, Charles H., <i>et al.</i> (See Phillips, Francis V., assignor.)						
Smith, Charles H., Newark, N. J. Glass bending and annealing furnace	373,695	Nov. 22	2146	{ 574 575 }	{ 41 }	900
Smith, Charles H., assignor to O. B. North & Co., New Haven, Conn. Snap-hook	359,407	Mar. 15	1416	363	38	1179
Smith, Charles H., assignor to O. B. North & Company, New Haven, Conn. Bridle-bit	374,852	Dec. 13	972	254	41	1245
Smith, Charles M. (See Smith, Charles A. and C. M.)						
Smith, Charles M., assignor to L. J. Bird, trustee, Boston, Mass. Car-heater	366,517	July 12	1039	282	40	206
Smith, Charles M., assignor to L. J. Bird, trustee, Boston, Mass. Car-platform	366,518	July 12	1040	282	40	207
Smith, Charles M., assignor to L. J. Bird, trustee, Boston, Mass. Railway-car	366,519	July 12	1042	283	40	207
Smith, Chester W. M., San Francisco, Cal. Railway-car	359,640	Mar. 22	1797	457	38	1265
Smith & Co., H. D. (See Ward, William S., assignor.)						
Smith, Coe D., Smithtown Branch, N. Y. Draft-equalizer	372,091	Oct. 25	1962	505	41	407
Smith, Cyrus M., <i>et al.</i> (See Woodhurst, Hazzard, assignor.)						
Smith, Daniel W., assignor of one-third to F. J. Donovan, St. Louis, Mo. Cable-grip for cars	358,703	Mar. 1	421	102	38	982
Smith, David, Washington, D. C. Ice-machine	356,382	Jan. 18	1549	{ 407 408 }	{ 38 }	312
Smith, Dewane B. (See Childs and Smith.) (Reissue.)						
Smith, Dewane B., assignor to J. M. Childs & Co., Utica, N. Y. Harrow-tooth seat	360,975	Apr. 12	836	214	39	160
Smith, Dewane B., assignor to J. M. Childs & Co., Utica, N. Y. Egg-safe	374,210	Dec. 6	58	15	41	1058
Smith, Dwight L., assignor of one-half to E. A. Smith, Waterbury, Conn. Suspender-buckle	368,022	Aug. 9	998	268	40	649
Smith, Dwight L., assignor of one-half to E. A. Smith, Waterbury, Conn. Suspender-buckle	370,660	Sept. 27	1965	520	40	1426
Smith, Dwight L., assignor of one-half to E. A. Smith, Waterbury, Conn. Buckle	374,069	Nov. 29	2588	695	41	992
Smith, Dwight L., assignor of one-half to E. A. Smith, Waterbury, Conn. Buckle	374,010	Nov. 29	2590	696	41	993
Smith, Dwight L., assignor of one-half to E. A. Smith, Waterbury, Conn. Buckle	374,377	Dec. 6	295	78	41	1102
Smith, Dwight L., assignor of one-half to E. A. Smith, Waterbury, Conn. Suspender-buckle	374,853	Dec. 13	973	254	41	1245
Smith, Dwight W., and J. C. Bittenbender, Constantine, Mich.; said Bittenbender assignor of one-half of his right to said Smith. Grain-drill	371,388	Oct. 11	927	239	41	188
Smith, Earl A. (See Smith, Dwight L., assignor.)						
Smith, Earle H., Bayonne, N. J., assignor to Goodyear & McKay Sewing Machine Company, Boston, Mass. Shoe-sole-sewing machine	369,563	Sept. 6	342	{ 94 95 96 }	{ 40 }	1099
Smith, Edward C., Syracuse, N. Y. Blind-stop	364,054	May 31	2824	733	39	1037
Smith, Edward C., Brooklyn, N. Y. Rail-sawing machine	367,167	July 26	1937	523	40	390
Smith, Edward C., Brooklyn, and S. W. Balch, Yonkers, N. Y., assignors to said Smith. Rail-sawing machine	365,026	June 14	1183	{ 310 311 }	{ 39 }	1315
Smith, Edward S., Waterbury, Conn. Cuff-holder	363,691	May 24	2309	599	39	933
Smith, Edward S., Waterbury, Conn. Shoe-clasp	372,576	Nov. 1	433	115	41	552
Smith, Edward W. (See Clare and Smith.)						
Smith, Edwin F., Union City, Conn. Ticket-holder	370,214	Sept. 20	1304	347	40	1295
Smith & Egge Manufacturing Company. (See Egge, Frederick, assignor.)						
Smith & Egge Manufacturing Company. (See Trull, William E., assignor.)						
Smith, Elias, assignor of one-half to F. Kimble, Peoria, Ill. Induction-coil	371,524	Oct. 11	1112	290	41	226
Smith, Elizabeth W., Atlanta, Ga., assignor, by mesne assignments, to F. Bogardus, trustee, New York, N. Y. Child's crib	374,277	Dec. 6	143	38	41	1074
Smith, Elmer S., assignor of one-half to R. V. Pierce, Buffalo, N. Y. Steam-engine	366,894	July 19	1569	420	40	313
Smith, Emerson A., Newport, Mo. Churn	360,485	Apr. 5	129	31	39	25
Smith, Eugene, Philadelphia, Pa. Grip for traction-cables	371,103	Oct. 4	530	{ 134 135 }	{ 41 }	105
Smith, Frank. (See Taylor, Lawrence H., assignor.)						
Smith, Frank C., Delaware, Ohio. Air-regulator for furnaces	366,038	July 5	398	108	40	75
Smith, Frank E., Raisin, Mich. Transplanter	374,092	Nov. 29	2716	729	41	1018
Smith, Frank H. (See Watson, Francis M., assignor.)						
Smith, Frank H., Manistee, Mich. Paper-bag holder	365,643	June 28	2110	550	39	1512
Smith, Frank R., assignor of one-half to T. H. Smith, Manheim, Pa. Damper	356,169	Jan. 18	1258	332	38	256
Smith, Frank W., and G. D. Livingston, Dodge Centre, Minn. Spring bed-bottom	368,023	Aug. 9	999	268	40	650
Smith, Franklin A., Jr. (See Brosnan, Cornelius J., assignor.)						
Smith, Franklin A., Jr., Providence, R. I. Button and fastener	361,462	Apr. 19	1530	396	39	301
Smith, Franklin A., Jr., Providence, R. I. Staple-fastener	363,091	May 17	1453	384	39	759
Smith, Franklin A., Jr., Providence, R. I. Chute for button-attaching machines	372,045	Oct. 25	1888	487	41	395
Smith, Frederick E., Boston, Mass. Window-ventilator	364,734	June 14	738	196	39	1236
Smith, Frederick H., assignor to English Bros., Kansas City, Mo. Tube-well	358,578	Mar. 1	248	58	38	949
Smith, George, New York, N. Y. Steam-engine	360,057	Mar. 29	2465	628	38	1394
Smith, George B., Handsworth, county of Stafford, England. Distance-indicator for cabs, &c.	357,420	Feb. 8	970	{ 255 256 }	{ 38 }	611
Smith, George B., Detroit, and T. B. Johnson, East Saginaw, Mich.; said Smith assignor to said Johnson. Fire-kindler	364,055	May 31	2826	733	39	1037
Smith, George C., Chicago, Ill. Watch-case	371,282	Oct. 11	776	199	41	160
Smith, George G., St. Albans, Vt. Fastening for hinged and sliding doors	357,344	Feb. 8	864	228	38	591
Smith, George G., St. Albans, Vt. Fastening for hinged and sliding doors	365,871	July 5	160	42	40	32
Smith, George H., London, England. Measuring-vessel	373,537	Nov. 22	1925	510	41	855
Smith, George H., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Attachment for grinding-machines	359,943	Mar. 22	2266	570	38	1350
Smith, George L. (See Winstandley, Smith, and Melven.)						
Smith, George T., and W. F. Cochrane, Jackson, Mich. Flour-bolt	374,500	Dec. 6	471	122	41	1136
Smith, George T., and W. F. Cochrane, Jackson, Mich. Flour-bolt	374,501	Dec. 6	473	122	41	1136
Smith, George W., assignor of one-half to C. H. Cadwallader, Union City, Ind. Box	370,982	Oct. 4	371	92	41	74
Smith, George W. L., and J. F. Dresbach, Homer, Ill. Dumping apparatus	362,324	May 3	352	97	39	542
Smith, George Y., Cedar Rapids, Iowa. Flour-packer	367,857	Aug. 9	759	204	40	604
Smith, Gerritt, Astoria, N. Y., assignor to Western Union Telegraph Company, of New York. Quadruplex telegraph	366,695	July 19	1303	349	40	264
Smith, Gray & Co. (See Spence, Charles D., assignor.)						
Smith, Hamilton E., New York, N. Y. Reversing belt-gear	355,569	Jan. 4	358	96	38	72
Smith, Harrie V. (See Sleigh and Smith.)						
Smith, Harry, Emmittsburg, Md. Tire for vehicle-wheels	372,180	Oct. 25	2087	535	41	431
Smith, Helen L. (See Hopper, Helen L.)						
Smith, Henry A., <i>et al.</i> (See Evans, W. Warrington, assignor.)						
Smith, Henry A., Atlanta, Ga. Clutch	375,210	Dec. 20	1510	396	41	1356
Smith, Henry C. (See Minnick, Alfred, assignor.)						
Smith, Henry C., East Randolph, N. Y. Washing-machine	355,350	Jan. 4	83	22	38	17

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Smith, Henry L. (See Smith, Myron S., assignor.)						
Smith, Henry M., Jersey City, N. J., and W. J. Baldwin, Brooklyn, N. Y. Air-supply regulator	371,797	Oct. 18	1511	390	41	315
Smith, Hezekiah B., and W. S. Kelley, Smithville, N. J. Manufacture of metal fellies	358,494	Mar. 1	106	25	38	923
Smith, Hiram H., Brooklyn, assignor to Empire Hydro Carbon Company, New York, N. Y. Concentrator for artificial lights	363,010	May 17	1344	355	39	737
Smith, Horace A., Brooklyn, N. Y. Adjustable foot for central supports	357,792	Feb. 15	1543	402	38	726
Smith, Isaac L., <i>et al.</i> (See Wiesebrock, Frederick W., assignor.)						
Smith, J. J., <i>et al.</i> (See Fisher, Joseph L., assignor.)						
Smith, J. Finley. (See Verbryck, Samuel A., assignor.)						
Smith, James, Brooklyn, N. Y. Exploding toy	368,736	Aug. 23	2023	536	40	862
Smith, James, assignor of one-half to J. F. Gebhart, New Albany, Ind. Incandescent electric lamp	365,351	June 21	1668	436	39	1416
Smith, James B., assignor to Standard Pencil Company, New York, N. Y. Glove or shoe buttoner	368,024	Aug. 9	1000	269	40	650
Smith, James D. (See Finley and Smith.)						
Smith, James D., Springfield, Mass. Gun-wiper	355,570	Jan. 4	359	96	38	72
Smith, James F., Andrew County, Mo. Steering apparatus for traction-engines	356,265	Jan. 18	1378	365	38	279
Smith, James G., Cleveland, Ohio. Fire-place	361,727	Apr. 26	1915	497	39	381
Smith, James G., Cleveland, Ohio. Stove-door	362,325	May 3	353	97	39	542
Smith, James G., Cleveland, Ohio. Extension-screen for open grates and fire-places	363,178	May 17	1575	415	39	784
Smith, James G., Jamestown, N. Y. Protractor and circle-scribing attachment for rulers	373,100	Nov. 15	1232	329	41	717
Smith, James H., Little Rock, Ark. Peach-stoner	361,093	Apr. 12	1007	254	39	192
Smith, James H., Little Rock, Ark. Weather-board gage	364,056	May 31	2826	733	39	1037
Smith, James L. (See Goff, Daniel, assignor.)						
Smith, James L., <i>et al.</i> (See Norgrave, George B., assignor.)						
Smith, James M., <i>et al.</i> (See Bartholomew, William, assignor.)						
Smith, James R., assignor to Standard National Gas Burner Company, Chicago, Ill. Gas-burner	375,578	Dec. 27	2001	520	41	1459
Smith, James T., New York, N. Y. Umbrella or parasol	361,899	Apr. 26	2171	562	39	428
Smith, James T., New York, N. Y. Umbrella or parasol	361,900	Apr. 26	2172	562	39	428
Smith, James T., New York, N. Y. Umbrella or parasol runner retainer	365,644	June 28	2111	550	39	1513
Smith, James T., New York, N. Y. Umbrella or parasol catch	366,522	July 12	1047	285	40	208
Smith, Jason, Rockland, Mass. Tool for interiorly shouldering cartridge-shells	358,704	Mar. 1	423	102	38	983
Smith, Jeremiah. (See Lockwood, Henry H., assignor.)						
Smith, Jeremiah M., Brooklyn, N. Y. Package-conveyer	363,857	May 31	2546	661	39	984
Smith, John A. (See Warren, Joseph A., assignor.)						
Smith, John A., York, Pa., assignor of one-half to J. A. Warren, Detroit, Mich. Octave-coupler for organs	372,772	Nov. 8	736	199	41	616
Smith, John A. V., Manchester, N. H. Speeder-flier	355,794	Jan. 11	698	182	38	145
Smith, John A. V., Manchester, N. H. Flier for spinning-machines	356,336	Jan. 18	1490	392	38	300
Smith, John B., <i>et al.</i> (See Wiesebrock, Frederick W., assignor.)						
Smith, John C., Elyria, Ohio. Permutation-lock	374,712	Dec. 13	777	204	41	1208
Smith, John E., New York, N. Y. Combined lamp and signal post	361,901	Apr. 26	2173	563	39	428
Smith, John E., Columbus, Ohio. Extension-ladder	369,084	Aug. 30	2521	669	40	966
Smith, John F. (See Wiseman, James H., assignor.)						
Smith, John G., assignor to Garth & Co. Montreal, Quebec, Canada. Heating apparatus	357,793	Feb. 15	1544	402	38	726
Smith, John L. (See Livingston and Smith.)						
Smith, John P. (See Evans and Smith.)						
Smith, John P., assignor of one-half to F. J. Browne, Exeter, N. H., and H. J. Browne, Washington, D. C. Fish-trap	356,797	Feb. 1	78	22	38	438
Smith, John R., Springfield, assignor to Union Water Meter Company, Worcester, Mass. Gas pressure-regulator and cut-off	370,715	Sept. 27	2051	544 } 545 }	40 }	1441
Smith, John S., Hamburg, Pa. Hame-fastener	365,645	June 28	2112	550	39	1513
Smith, John S., Jackson, Mich. Leveling-instrument	367,859	Aug. 9	762	205	40	605
Smith, John S., assignor to Acme Dust Collector and Wheat Cleaning Company, Jackson, Mich. Dust-collector	367,858	Aug. 9	761	204	40	604
Smith, John T., San Francisco, Cal. Automatic oiler	365,153	June 21	1384	366	39	1361
Smith, John T., Rockfall, Conn. Harmonica	368,789	Aug. 23	2093	554	40	875
Smith, John T., San Francisco, Cal., assignor of one-half to C. Fust, Minneapolis, Minn. Barrel	364,606	June 7	563	151	39	1194
Smith, Jonas P., Lima, Ohio. Rope-socket	367,560	Aug. 2	296	84	40	507
Smith, Joseph D., Rising City, Nebr. Invalid-bed	366,982	July 19	1680	452	40	334
Smith, Joseph D., assignor to Skandia Plow Company, Rockford, Ill. Corn-planter check-rower	360,825	Apr. 5	604	159	39	114
Smith, Joseph J., Jamaica, and C. A. Janson, New York, N. Y. Zinc-casting machine	375,211	Dec. 20	1511	396 } 397 }	41 }	1356
Smith, Joseph R., Brockville, Ontario, Canada. Bolt-cutter	361,554	Apr. 19	1647	427	39	324
Smith, Josephine R. (See Smith and Jones, assignors.)						
Smith, Joshua C. C., Covert, N. Y. Windmill	361,555	Apr. 19	1648	427	39	324
Smith, Knight G., Princeton, Mo. Speculum	367,248	July 26	2061	556	40	414
Smith, L. Starr, Silver City, N. Mex. Ter. Ink-blotter	374,713	Dec. 13	778	204	41	1208
Smith, Leonard O., Philadelphia, Pa., assignor of one-half to B. A. Armstrong, New London, Conn. Spool	358,705	Mar. 1	425	103	38	983
Smith, Leonard O., Philadelphia, Pa., assignor of one-half to B. A. Armstrong, New London, Conn. Spool-guard	370,716	Sept. 27	2054	545	40	1442
Smith, Leroy H. (See Pierce and Smith.)						
Smith, Levi, Highland, Ohio. Desk	359,474	Mar. 15	1515	387 } 388 }	38 }	1198
Smith, Levi F., Philadelphia, Pa. Machine for drawing metal tubes	359,898	Mar. 22	2202	554	38	1337
Smith, Lewis P. (See Greene and Smith.)						
Smith, Louis A., <i>et al.</i> (See Snowberger, Jacob, assignor.) (Reissue)						
Smith, Louis E., <i>et al.</i> (See Schad, Barnhard, assignor.)						
Smith, Luther F., Fort Howard, Wis. Device for changing railway-car wheels	363,692	May 24	2310	599	39	933
Smith, Lyman, Kansas City, Mo. Grain-silo	355,480	Jan. 4	245	65	38	50
Smith, Marcellus S., Independence, Mo. Ink-well for school-desks	359,331	Mar. 15	1299	337	38	1157
Smith, Mark A., and J. Nurre, Evansville, Ind. Wash-board	365,646	June 28	2113	551	39	1513
Smith, Melvin L., Batavia, N. Y. Wheel for vehicles	358,631	Mar. 1	314	75	38	962
Smith, Meritt W., Waverly, N. Y. Rail-drill	373,318	Nov. 15	1567	415	41	777
Smith, Millard F., Weir City, Kans. Supporting-column for drilling-machines	360,177	Mar. 29	2671	674	38	1430
Smith, Millard F., Philadelphia, Pa. Shield for bearing-bars of painters' scaffolds	363,179	May 17	1576	415	39	784
Smith, Milton M., Buffalo, N. Y. Pin and needle case	371,104	Oct. 4	531	135	41	105
Smith, Milton M., and F. P. Jones; said Smith assignor to J. R. Smith, Buffalo, N. Y. Electric clock-alarm	356,605	Jan. 25	1869	491	38	380

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Smith, Morris W. (See Moores, George W., assignor.)						
Smith, Myron S., assignor of one-half to H. L. Smith, Albany, N. Y. Purse	368,553	Aug. 16	1762	468	40	803
Smith, Nelson, Smithville South, N. Y. Safety attachment for anchors	372,938	Nov. 8	984	266	41	661
Smith, Oberlin, Bridgeton, N. Y. Spring-key	362,548	May 10	674	189	39	607
Smith, Orison R. (See Laube and Smith.)						
Smith, Orlando H., Ellicottville, N. Y. Chain and lever power	362,671	May 10	860	235	39	640
Smith, Orlando J., assignor to American Press Association, New York, N. Y. Printing-shell	365,352	June 21	1669	436	39	1416
Smith, Orson P., Buford, Ill. Automatic car-brake	366,039	July 5	400	108	40	75
Smith, Orville T., Brooklyn, N. Y. Construction of gem-settings	363,556	May 24	2109	547	39	895
Smith, Osgood, Cambridge, Mass. Key	360,738	Apr. 5	486	124	39	91
Smith, Oswald, Tell City, Ind., assignor of one-half to W. T. Pyne, Louisville, Ky. Feed-regulator for roller-mills	372,939	Nov. 8	984	267	41	661
Smith & Owen Heater Company. (See Owen and Fuller, assignors.)						
Smith & Owen Heater Company. (See Smith and Fuller, assignors.)						
Smith, Peter, Detroit, Mich. Fire-extinguisher for railway-cars	374,211	Dec. 6	59	15	41	1058
Smith, Peter, and O. B. Fuller, assignors to Smith & Owen Heater Company, Detroit, Mich. Circulating hot-water system	358,228	Feb. 22	2153	567	38	845
Smith, Peter A., Burlington, Iowa. Check-rein for harness	357,794	Feb. 15	1545	402	38	726
Smith, Richard, Sherbrooke, Quebec, Canada. Automatic doctor	365,492	June 28	1881	490	39	1468
Smith, Richard, Sherbrooke, Quebec, Canada, assignor of one-half to Fall Mountain Paper Company, Bellows Falls, Vt. Apparatus for cleansing shower-pipes	362,672	May 10	861	235	39	641
Smith, Richard, Sherbrooke, Quebec, Canada, assignor of one-half to Fall Mountain Paper Company, Bellows Falls, Vt. Actuating wet felt	362,673	May 10	862	235	39	641
Smith, Richard, Sherbrooke, Quebec, Canada, assignor of one-half to Fall Mountain Paper Company, Bellows Falls, Vt. Automatic guide-roll attachment	362,674	May 10	864	236	39	641
Smith, Richard, Boston, Mass., assignor of one-half to Fall Mountain Paper Company, Bellows Falls, Vt. Stuff-chest for paper-making machines	369,747	Sept. 13	591	161	40	1155
Smith, Robert C. (See Diltz, William, assignor.)						
Smith, Robert S., and J. Meiklejohn, St. Thomas, Ontario, Canada. Boiler-cleaner	374,502	Dec. 6	474	123	41	1137
Smith, Robert W., Toledo, Ohio. Swinging bridge	357,638	Feb. 15	1310	{ 344 } { 345 }	{ 38 }	684
Smith, Roderick H., Dunkirk, N. Y. Coupling-breaker	369,887	Sept. 13	809	215	40	1196
Smith, Rudolph C., Yonkers, N. Y. Hydraulic elevator	357,345	Feb. 8	866	228	38	591
Smith, Rudolph C., Yonkers, N. Y. Attachment for calculating-scales	357,346	Feb. 8	867	229	38	591
Smith, Samuel, assignor of one-half to W. H. Butler, Lawrence, Mass. Minute-glass signal	366,265	July 12	709	192	40	142
Smith, Samuel E., Brooklyn, N. Y. Changeable button	358,080	Feb. 22	1940	512	38	806
Smith, Samuel S. (See Story, John, assignor.)						
Smith, Samuel W. (See Baker, William H., assignor.)						
Smith, Samuel W., Pinley House, near Coventry, county of Warwick, England. Metal cock or tap	362,326	May 3	355	98	39	542
Smith, Sanford A. (See Shackford, Albert E., assignor.)						
Smith, Sanford G., Providence, R. I. Slow-closing tank-valve	374,637	Dec. 13	676	178	41	1187
Smith, Sarah G., Cleveland, Ohio. Fuel-box	371,714	Oct. 18	1393	359	41	292
Smith, Seth H., Delta, Ohio. Paper box	362,675	May 10	866	236	39	641
Smith, Seth H., Delta, Ohio. Cell-package for fruit, &c. (Reissue)	10,876	Oct. 18	1686	436	41	349
Smith, Sidney, Cambridge, Mass. Steam-generating apparatus	364,868	June 14	960	253	39	1275
Smith, Sidney C., New York, N. Y. Stem-winding watch	374,760	Dec. 13	843	221	41	1221
Smith, Sidney E., Brooklyn, N. Y. Grater-cylinder	369,130	Aug. 30	2576	625	40	978
Smith, Sidney R., and J. H. McArthur, assignors of one-third to D. F. Roberts, Woodland, Mich. Horseshoe	359,104	Mar. 8	996	256	38	1094
Smith, Solomon P., Waterford, N. Y. Air-current governor	365,945	July 5	273	72	40	52
Smith, Stephen D., Spotswood, N. J. Car-coupling attachment	374,714	Dec. 13	780	{ 204 } { 205 }	{ 41 }	1208
Smith, Stephen T. (See Wagner, Franz X., assignor.)						
Smith, Steward F., Columbus, Ohio. Breast-collar and neck-strap coupling	362,549	May 10	675	189	39	607
Smith, Theodore, Cincinnati, Ohio. Leather-splitting machine	358,081	Feb. 22	1942	512	38	806
Smith, Theodore F., Ovid, Mich. Dash attachment for vehicles	355,571	Jan. 4	360	97	38	73
Smith, Theron L., North Attleborough, Mass. Button or stud	367,860	Aug. 9	763	205	40	605
Smith, Thomas, New York, N. Y. Ventilator and smoke-bell for lamps	357,736	Feb. 15	1456	381	38	710
Smith, Thomas, <i>et al.</i> (See Kirby, John, Jr., assignor.)						
Smith, Thomas B., West Bromwich, county of Stafford, England. Screw-cutting machine	372,434	Nov. 1	222	62	41	512
Smith, Thomas D., Lynn, Mass. Guard for beds	365,105	June 21	1316	348	39	1349
Smith, Thomas D., Lynn, assignor of one-half to G. H. Heath, Boston, Mass. Station-indicator	367,861	Aug. 9	764	205	40	605
Smith, Thomas E., <i>et al.</i> (See Brown, Thomas J., assignor.)						
Smith, Thomas H. (See Anderson, Isaac, assignor.)						
Smith, Thomas H. (See Smith, Frank R., assignor.)						
Smith, Thomas S., Washington, D. C. Stair-rod and carpet securer	362,794	May 10	1041	283	39	674
Smith, Thomas W., assignor of one-half to J. H. Holman, Santa Rosa, Cal. Emulsion to protect fruit-trees	374,011	Nov. 29	2591	.....	41	993
Smith, Uriah, Battle Creek, Mich. Car-seat	359,036	Mar. 8	904	230	38	1075
Smith, Voorhees G., Iola, Kans. Mowing-machine	365,946	July 5	274	72	40	52
Smith, W. Everett, Framingham, Mass. Depurator	375,015	Dec. 20	1235	322	41	1302
Smith, Walton. (See Gould and Smith.)						
Smith, Walton, <i>et al.</i> (See Gould, Claude C., assignor.)						
Smith, Warren, <i>et al.</i> (See Stonestreet, George D., assignor.)						
Smith, Warren E., New York, N. Y. Waistband for garments	363,486	May 24	2007	524	39	876
Smith, Warren S., Stone Church, Pa. Wagon-brake	372,873	Nov. 8	898	241	41	644
Smith, Willard A. (See Weston and Smith.)						
Smith, William, <i>et al.</i> (See Dailey, John, assignor.)						
Smith, William, Toronto, Ontario, Canada. Tailor's or dress-maker's square	367,455	Aug. 2	134	38, 39	40	477
Smith, William, Heywood, county of Lancaster, England. Cutting mechanism for looms for weaving double pile fabrics	368,247	Aug. 16	1327	350	40	718
Smith, William, assignor of one-half to Kenney & Co., Scottsdale, Pa. Pipe-mold	360,251	Mar. 29	2775	704	38	1451
Smith, William A., Jacksonville, Ill. Swinging gate	363,180	May 17	1577	415	39	784
Smith, William B., Hopeville, Ga. Grain-cradle	365,947	July 5	275	72	40	53
Smith, William C., assignor of one-half to J. P. Brewer, New Haven, Conn. Lamp-post and signal	360,252	Mar. 29	2776	705	38	1451
Smith, William D., Marion, Ill. Stove-spittoon	361,902	Apr. 26	2174	{ 563 } { 564 }	{ 39 }	428
Smith, William D., Marion, Ill. Hearth-spittoon	365,872	July 5	161	42	40	33
Smith, William E., Washington, D. C. Wheel	359,745	Mar. 22	1948	494	38	1292
Smith, William E., assignor to B. Goodman Manufacturing Company, Bridgeport, Conn. Suspender-buckle	359,185	Mar. 8	1088	283	38	1111

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Smith, William H. (See Penrose, Nutting, and Smith.)						
Smith, William H., De Soto, Iowa. Nut-lock	356,170	Jan. 18	1259	332	38	256
Smith, William J., Caledonia, Ohio. Fence	363,557	May 24	2111	547	39	895
Smith, William M., <i>et al.</i> (See Dailey, John, assignor.)						
Smith, William R., New York, N. Y. Automatic weighing-scale	375,102	Dec. 20	1363	{ 355 356 }	{ 41 }	1326
Smith, William R., Bandera, Tex., and A. L. Washburn, New York, N. Y.; said Washburn assignor to said Smith. Coin-operated electrical weighing-scale	365,353	June 21	1670	436	39	1416
Smith, William S., Chicago, Ill. Apparatus for sinking shafts through quicksand	371,389	Oct. 11	928	239	41	188
Smith, William T., Providence, R. I. Exhibiting apparatus	358,897	Mar. 8	720	178	38	1041
Smith, William T., Bellefontaine, Ohio. Car-coupling	364,683	June 14	663	177	39	1222
Smith, William T., and G. A. Ely, Baltimore, Md. Heat generator and radiator	369,131	Aug. 30	2577	685	40	978
Smith, Wilson R., Beloit, Wis. Converting motion	368,861	Aug. 23	2192	582	40	895
Smith Woolen Machinery Company, James. (See Moulton and Clarkson, assignors.)						
Smith, Wright D., assignor, by mesne assignments, to Huyett & Smith Manufacturing Company, Detroit, Mich. Fan-blower	374,093	Nov. 29	2717	729	41	1018
Smith, Wright D., assignor to Huyett & Smith Manufacturing Company, Detroit, Mich. Air-heating apparatus	374,094	Nov. 29	2718	729	41	1019
Smither, Joseph C., Nicholasville, Ky. Sliding trundle-bed	361,189	Apr. 12	1158	293	39	220
Smithers, Samuel L., Lincoln, Nebr. Rubber overshoe	366,266	July 12	710	192	40	142
Smitten, Thomas W. F., Brooklyn, N. Y. Fastening for ear-rings	364,140	May 31	2949	766	39	1060
Smitten, Thomas W. F., Brooklyn, N. Y. Ear-ring fastening	371,283	Oct. 11	778	199	41	161
Smolianinoff, Sergey D., San Francisco, Cal. Dynamite	372,338	Nov. 1	77		41	486
Smyth, David G., Hartford, Conn. Canvas-stretcher	373,156	Nov. 15	1327	351	41	733
Smyth, John M., Windsor, Ontario, Canada, assignor of one-half to C. C. McGlogan, Detroit, Mich. Oil-cup	365,547	June 28	1973	514	39	1487
Smyth, Joseph E. (See Stevens and Smyth.)						
Smyth Manufacturing Company. (See Cone, Eugene F., assignor.)						
Smyth Manufacturing Company. (See Reynolds, John R., assignor.)						
Smyth, Samuel, Pittston, Pa. Package for butter	362,676	May 10	867	237	39	641
Smythe, Augustine T. (See Rabb, William S., assignor.)						
Smythe Manufacturing Company. (See Fifield and Jacobs, assignors.)						
Smythe Manufacturing Company. (See Jacobs, Arthur L., assignor.)						
Snadon, George W., Watkins, Mo. Churn	375,430	Dec. 27	1798	470	41	1420
Sneathen, F. F. (See Hurd, Charles S., assignor.)						
Sneathen, John B. (See Michales and Michaels, assignors.)						
Sneathen, John B., and A. Michaels, Pittsburg, and M. A. Michales, Allegheny, Pa. Portable electric coal-mining machine	375,390	Dec. 27	1744	458	41	1410
Snedeker, Edgar W., Jamesburg, N. J. Combined sawing, molding, and turning machine	373,493	Nov. 22	1842	{ 491 492 }	{ 41 }	841
Snedeker, John S. (See Reno, Zachary T., assignor.)						
Snedeker, John S., New York, N. Y. Riveting-machine	360,178	Mar. 29	2672	674	38	1430
Snedigar, Edward B. (See Pember and Snedigar.)						
Snedigar, Henry F. (See Earle, Snedigar, and Pement.)						
Snediker, David L. (See Newman, Edwin A., assignor.)						
Snediker, David L., Emporia, Kans. Combined abdominal supporter and pessary	364,968	June 14	1103	287	39	1301
Snee, John A. (See Shoaf, James M., assignor.)						
Snell, Anthony, Rochester, N. Y. Bridge-wall	369,564	Sept. 6	347	96	40	1100
Snell, John, and A. Van Slyke, assignors to said Van Slyke, W. Kineman, and G. Hambrecht, Fort Plain, N. Y. Window-blind	360,058	Mar. 29	2467	628	38	1394
Snell, Samuel, Springfield, Mass. Machine for manufacturing paper filtering stones or tiles	356,508	Jan. 25	1736	453	38	354
Snell, Thomas W., Chicago, Ill. Furring-tile	360,625	Apr. 5	335	84	39	64
Snellbaker, William H. H., assignor of one-half to F. Krein, St. Louis, Mo. Clevis-fastening	362,327	May 3	355	98	39	543
Snethen, Jacob F., Humboldt, Nebr. Automatic regulator for wind-wheels	375,462	Dec. 27	1840	482	41	1429
Snider, William H., Toronto, assignor of one-fourth to H. G. Orsor, Ameliasburgh, Ontario, Canada. Car starter and brake	363,770	May 24	2416	626	39	953
Snidow, J. Milton. (See Boughton and Snidow.)						
Sniffen, Samuel F. (See Secco, Henry, assignor.)						
Snoddy, James T., assignor of one-half to Western Wheel Scraper Company, Mount Pleasant, Iowa. Wagon end-gate	367,676	Aug. 2	485	134	40	542
Snoddy, James T., assignor of one-half to Western Wheel Scraper Company, Mount Pleasant, Iowa. Wagon end-gate	369,819	Sept. 13	694	{ 187 188 }	{ 40 }	1175
Snoddy, James T., and P. J. Lang, Mount Pleasant, Iowa. End-gate	368,901	Aug. 23	2247	598	40	906
Snodgrass, Charles W. (See Sprague, Oscar L., assignor.)						
Snow, Elwin A., Jacksonville, N. Y. Pavement	369,478	Sept. 6	225	63	40	1076
Snow, Enoch W., and J. E. Higgins, Auburn, Ill. Gate-latching device	357,507	Feb. 8	1095	289	38	635
Snow, Fred W. (See Redding, William A., assignor.)						
Snow, Fred W., Hillburn, N. Y. Switch-stand	367,862	Aug. 9	766	206	40	605
Snow, Fred W., Ramapo, N. Y. Switch-stand	372,716	Nov. 8	637	173	41	601
Snow, George B., Buffalo, N. Y. Vulcanizer	357,639	Feb. 15	1328	345	38	684
Snow, George B., Buffalo, N. Y. Steam bell-ringer	371,636	Oct. 18	1267	329	41	265
Snow, George G. (See Ross, Elbridge C., assignor.)						
Snow, Mary S., Sacramento, Cal. Umbrella or parasol	368,980	Aug. 30	2366	629	40	937
Snow, William W. (See Mileham, Joseph N., assignor.)						
Snow, William W., Ramapo, N. Y. Car-wheel	359,332	Mar. 15	1300	337	38	1157
Snow, William W., Ramapo, N. Y. Car-wheel	361,332	Apr. 19	1353	348	39	268
Snowberger, Jacob, assignor of three-fourths to U. G. Kirn, L. A. Smith, and O. Case, Akron, Ohio. Oiler and wiper for commutators (Reissue)	10,816	Mar. 8	1175	305	38	1127
Snowden & Co. (See Rees, Thomas W., assignor.)						
Snowley, John, Cassopolis, Mich. Road-cart	370,024	Sept. 13	1026	{ 270 271 }	{ 40 }	1235
Snyder, Abraham B., Louisville, Ohio. Railway-signal	356,798	Feb. 1	79	22	38	438
Snyder, August, Pittsburg, Pa. System of and apparatus for refrigerating	373,319	Nov. 15	1568	416	41	778
Snyder, August, Pittsburg, Pa. Cross-head for compressors	373,381	Nov. 15	1672	444	41	797
Snyder, Charles F. (See Hess and Snyder.)						
Snyder, Charles W., assignor of one-half to J. S. McKenzie, Hutchinson, Kans. Washing-machine	360,059	Mar. 29	2468	628	38	1394
Snyder, Christopher, assignor of one-fourth to W. McKillip, Henrietta, Pa. Car-coupling	357,562	Feb. 8	1191	313	38	653
Snyder, David, Bloomville, Ohio. Churn	365,205	June 21	1450	382	39	1375
Snyder, David S., and C. J. Hoteling, Nevada, Iowa. Railway-joint protector or brace	356,799	Feb. 1	80	23	38	438
Snyder, Edward E. (See Reed, William, assignor.)						
Snyder, Edwin V. (See Snyder, Theodore H. and E. V.)						
Snyder, Francis. (See Crandall and Snyder.)						
Snyder, Francis, New York, N. Y. Child's propeller	363,011	May 17	1345	355	39	737

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Snyder, Frederick, assignor of one-half to T. J. Little, Hanover, Pa. Check-rein hook	362,466	May 3	558	155	39	581
Snyder, Frederick, Lancaster, assignor of one-half to T. J. Little, Hanover, Pa. Hard-rubber roll	373,101	Nov. 15	1232	329	41	717
Snyder, Frederick H. (See Hess and Snyder.)						
Snyder, Frederick H., Jersey City, N. J., assignor of one-third to G. W. Richardson and M. Luscomb, Boston, Mass. Purifying gas-carbon	357,103	Feb. 1	508	135	38	516
Snyder, Frederick H., Jersey City, N. J., assignor of one-third to G. W. Richardson and M. Luscomb, Boston, Mass. Compound for roofing and protecting metals	357,104	Feb. 1	510	.....	38	516
Snyder, Frederick H., Jersey City, N. J., assignor of one-third to G. W. Richardson and M. Luscomb, Boston, Mass. Refractory and non-conducting material from gas-carbon for crucibles, furnace-linings, glass-pots, Bessemer converters, artificial-stone polishing-wheels, &c.	357,105	Feb. 1	510	.....	38	516
Snyder, Frederick H., Jersey City, N. J., assignor of one-third to G. W. Richardson and M. Luscomb, Boston, Mass. Anti-friction lubricant	357,106	Feb. 1	511	.....	38	516
Snyder, Jacob F. (See Hess and Snyder.)						
Snyder, Jacob S. (See Eisenhuth, Oscar, assignor.)						
Snyder, John H. and S. W., assignors of one-third to H. S. Hutzler, Richmond, Va. Car-heater	366,040	July 5	401	109	40	76
Snyder, John T. (See Pierce and Snyder.)						
Snyder, Otis E., Otisville, Mich. Car-coupling	370,825	Oct. 4	99	27	41	21
Snyder, Samuel I., Clearfield, Pa. Machine for punching metal	363,917	May 31	2620	{ 680 681 }	{ 39 }	997
Snyder, Spencer W. (See Snyder, John H. and S. W.)						
Snyder, Theodore H. and E. V., assignors of one-half to W. M. Singerly, Philadelphia, Pa. Car-coupling	356,428	Jan. 18	1620	425	38	324
Snyder, Thomas C. (See Belding, Thomas C., assignor.)						
Snyder, Watson, Ypsilanti, Mich. Oil-burning attachment	374,433	Dec. 6	371	97	41	1117
Snyder, William D., Chicago, Ill. Wardrobe-bedstead	365,948	July 5	277	72, 73	40	53
Snyder, William H., and S. Hufty, Camden, N. J., assignors, by mesne assignments, to themselves and T. Adams, Philadelphia, Pa. Smoke-stack for locomotives	370,746	Sept. 27	2095	556	40	1449
Sobinski, Charles O. (See Peper and Sobinski.)						
Sochefskey, William, New York, N. Y. Decorating wall-hangings and other fabrics	357,508	Feb. 8	1096	.....	38	635
Société A. Hutchinson & Cie. (See Labre, Armand, assignor.)						
Société Anonyme Co-operative pour la Construction de Chaudières Inexplosibles. (See Terme and Déharbe, assignors.)						
Société Anonyme Dite Compagnie de Fives-Lille. (See Duval, Martin L. E., assignor.)						
Société Anonyme du Compresseur Jourdan. (See Jourdan, Ferdinand, assignor.)						
Société Anonyme pour L'Étude et la Création de Soudières. (See Droit, Albert, assignor.)						
Société Castañon, Menendez & Gil. (See Gil, Siméon, assignor.)						
Société d'Exploitation des Câbles Électrique Système Berthoud, Borel & Cie. (See Borel, François, assignor.)						
Société Gautier, Pozzy & Cie. (See Gautier, Alexandre, assignor.)						
Society Devries & Co. (See Brouillet, Emile, assignor.)						
Society of Chemical Industry. (See Gnehm, Robert, assignor.)						
Society of Chemical Industry. (See Rohner, Joseph, assignor.)						
Sodal, Montalvo & Boulanger. (See Sodal, Pedro, assignor.)						
Sodal, Pedro, assignor to Sodal, Montalvo & Boulanger, Cienfuegos, Cuba. Furnace and apparatus for burning bagasse	375,461	Dec. 27	1839	481	41	1429
Sodee, John H., Seattle, Wash. Ter. Saw-filing machine	367,561	Aug. 2	297	84, 85	40	507
Sodee, John H., Seattle, Wash. Ter. Combined saw-jointer, saw-set, and gage	370,661	Sept. 27	1966	520	40	1426
Soden, Francis H. (See Page and Soden.)						
Soden, Francis H., and H. Goehst, Chicago, Ill. Insulating-joint	372,940	Nov. 8	986	267	41	661
Soderling, August, Bodie, Cal. Amalgamating-pan	375,212	Dec. 20	1512	397	41	1357
Soennecken's Verlag, F. (See Büschgens, Eugen, assignor.)						
Sohmer & Co. (See Weber, Peter, assignor.)						
Sohmer, Hugo, New York, N. Y. Piano-forte	358,946	Mar. 8	784	198	38	1054
Sohn, Charles E., Springfield, Ohio. Damper for stove-pipes, chimneys, &c.	358,172	Feb. 22	2078	547	38	830
Sohn, John B., Visalia, Cal. Windmill	355,726	Jan. 11	598	156	38	127
Söhne, I. Ebstein. (See Rappaport, Louis, assignor.)						
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Power-brake	358,992	Mar. 8	849	215	38	1065
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Power-brake	360,179	Mar. 29	2673	{ 674 675 }	{ 38 }	1431
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Vacuum-brake pipe-coupling	360,924	Apr. 12	749	197	39	146
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Electric-wire coupling	360,925	Apr. 12	749	197	39	146
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Power-brake	365,647	June 28	2113	{ 551 552 }	{ 39 }	1513
Solcer, Newton, assignor to Automatic Car Coupling Company, Brookville, Ill. Car-coupling	363,303	May 17	1739	455	39	815
Solid Link Chain Manufacturing Company. (See Kinder, Julius, assignor.)						
Solidity Iron Last Company. (See Parker, Charles F., assignor.)						
Sollenberger, John T., Kokomo, Ind. Thill-coupling	370,094	Sept. 20	1127	299	40	1262
Sollenberger, John T., and H. G. Woody, Kokomo, Ind. Gas-pressure regulator and cut-off	359,822	Mar. 22	2071	525	38	1315
Solliday, Wilson B. (See Bortell, Samuel B., assignor.)						
Solomon, Horace G., et al. (See Cochran, William A., assignor.)						
Soltmann, Edward G. (See Latimer, Harry I., assignor.)						
Solvay, Ernest, Brussels, Belgium. Manufacture of caustic soda	362,677	May 10	868	.....	39	642
Solvay, Ernest, Brussels, Belgium. Process of and apparatus for making sodium bicarbonate	364,552	June 7	497	134	39	1181
Somers, Daniel M., Brooklyn, N. Y. Combined packing-box and exhibiting-stand	361,652	Apr. 19	1805	{ 468 469 }	{ 39 }	354
Somerville, Jason C. (See Powers, Thomas, assignor.)						
Somes, James F. (See Beach, George A., assignor.)						
Sommer, Adolf, Blankenburg-on-the-Harz, Germany, assignor to F. D. Laugenheim, Philadelphia, Pa. Lathing-panel	356,733	Jan. 25	2048	537	38	412
Sommerfield, Isidor, New York, N. Y. Heel for boots or shoes	372,435	Nov. 1	224	63	41	512
Somps, Pierre G., and F. A. Weise, San Francisco, Cal. Purifying and preserving beverages	367,938	Aug. 9	881	239	40	627
Sonne, Charles, Chicago, Ill. Writing-desk and table combined	364,684	June 14	665	{ 177 178 }	{ 39 }	1222
Sonneborn, Henry. (See Seymour, Frederick W., assignor.)						
Sonnenberg, Wilhelm, Winona, Minn. Breech-loading fire-arm	371,390	Oct. 11	929	{ 239 240 }	{ 41 }	188

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Sonner, Andrew J., Milltown, Ind. Hame-coupling.....	369,618	Sept. 6	425	119	40	1116
Sonnet, Wilhelm, Beckum, Prussia, Germany. Apparatus for producing cement.....	371,715	Oct. 18	1394	{ 359 360 }	{ 41 39 }	292
Sonntag, Frederick, Fort Atkinson, Wis. Plumb-level.....	361,728	Apr. 26	1916	497	39	381
Sooy, Ephraim C., Kansas City, Mo. Baling-press.....	358,898	Mar. 8	723	{ 178 179 }	{ 38 39 }	1042
Sooy, Ephraim C., Kansas City, Mo. Baling-press.....	363,012	May 17	1346	356	39	737
Sorge, Adolph, Jr. (See Hatfield and Sorge.)						
Sornberger, Samuel J., Cortland, N. Y. Fire-extinguishing compound.....	362,232	May 3	238	-----	39	519
Souder, Jacob J., Washington, D. C. Dumping-car.....	371,224	Oct. 11	696	{ 178 179 }	{ 41 40 }	146
Souders, Jacob, assignor of one-half to T. J. Ream, Greentown, Ohio. Combined tack hammer and puller.....	371,105	Oct. 4	532	135	41	105
Soule, George W., Boston, Mass. Brick-handler.....	370,565	Sept. 27	1819	484	40	1398
Soule, Helen F. (See Wallace, Samuel, assignor.)						
Soule, John W., Everett, Mass., assignor to National Heeling Machine Company, Portland, Me. Heel-nailing machine.....	368,248	Aug. 16	1329	{ 350 351 }	{ 40 40 }	718
Soule, Joseph F., Brockton, Mass. Box-toe-forming machine.....	368,025	Aug. 9	1000	269	40	650
Souleyret, Jerome C., Jellico Mines, near Newcomb, Tenn. Safety-elevator.....	369,748	Sept. 13	593	161	40	1156
Souleyret, Jerome C., Greenwood, Ky. Car-coupling.....	369,749	Sept. 13	594	161	40	1156
Sousley, Isaac. (See Berger and Sousley.)						
South Bend Iron Works. (See Anderson, Charles, assignor.)						
Southall Bros. & Barclay. (See Robinson, William B., assignor.)						
Southard, Abraham M., assignor to Southard Portable Gas Company, Denver, Colo. Apparatus for lighting buildings.....	355,351	Jan. 4	84	22	38	18
Southard, Abraham M., assignor to Southard Portable Gas Company, Denver, Colo. Extension-support for chandeliers.....	355,845	Jan. 11	770	202	38	157
Southard Portable Gas Company. (See Southard, Abraham M., assignor.)						
Southard, William D. (See Swain, Charles R., assignor.)						
Southern Cotton Oil Company. (See Thompson, Erwin W., assignor.)						
Southern Cotton Picking Company. (See Haselton, Daniel B., assignor.)						
Southwick, William, Gordon, Ontario, Canada. Whiffletree.....	364,314	June 7	149	42	39	1117
Southwick, William H., East Delavan, Wis. Corn-planter.....	361,463	Apr. 19	1531	397	39	301
Southworth, Samuel, Concordia, Kans. Kitchen-safe.....	358,947	Mar. 8	785	198	38	1054
Sovereign, Joshua, Woodland, Cal. Two-wheeled vehicle.....	366,798	July 19	1441	385	40	288
Sowar, Joseph S. C., et al. (See Baldwin, Albert O., assignor.)						
Sowerby, John G., Gateshead-on-Tyne, county of Durham, England. Mold for molding articles of glass, &c.....	357,867	Feb. 15	1643	427	38	745
Sowerby, John G., Gateshead-on-Tyne, county of Durham, England. Apparatus used in fire-polishing glassware.....	357,868	Feb. 15	1644	428	38	745
Sowers, Orlando, Santa Rosa, Cal. Bung.....	366,434	July 12	920	249	40	182
Sowers, Percy S. (See Gross, John F., assignor.)						
Sowle, Ferdinand A., Fall River, Mass. Seine.....	371,987	Oct. 25	1789	464	41	379
Spachmann, Ottmar, West Farms, N. Y. Ice-skid.....	366,895	July 19	1572	421	40	314
Spackman, Matthew B., assignor of one-half to L. M. Truxal, Du Bois, Pa. Carpet-stretcher.....	363,013	May 17	1348	356	39	738
Spafford, John, et al. (See Castleman, Morris N., assignor.)						
Spafford, John W., Akron, Ohio. Nut-lock.....	363,259	May 17	1679	440	39	803
Spafford, Lewis D., Hull Prairie, Ohio. Bag-holder.....	359,641	Mar. 22	1799	457	38	1266
Spalding, Henry R., Rockford, Ill. Washing-machine.....	367,249	July 26	2062	556	40	414
Spalding, Leander R., and G. F. Adams, Nashua, N. H. Foot-guard.....	359,899	Mar. 22	2203	555	38	1338
Spalding, Orlando D., St. Lawrence, assignor of one-half to C. W. Bowne and T. M. Wilkins, Miller, Dak. Ter. Cooking-stove.....	357,158	Feb. 1	616	158	38	534
Spangenberg, Robert F., New Orleans, La. Brush for gin-saws.....	360,486	Apr. 5	130	32	39	25
Spangenberg, Robert F., assignor of one-fourth to E. A. Blakely, New Orleans, La. Cotton-picker stem.....	364,607	June 7	563	152	39	1194
Spangler, Jacob W., York, Pa. Feed mechanism for fertilizer-distributors.....	364,969	June 14	1104	287	39	1301
Spangler, James M., Canton, Ohio. Grain-harvester.....	356,171	Jan. 18	1260	333	38	256
Spangler, Washington E., Newark, N. J. Double-seaming machine.....	371,391	Oct. 11	931	240	41	189
Spanogle & Co. (See Cross, Peter M., assignor.)						
Spare, George E., New Haven, Conn. Two-seated wagon.....	365,648	June 28	2115	552	39	1513
Sparhawk, William W., Scotia, Nebr. Combination-tool.....	355,481	Jan. 4	247	65	38	50
Sparks, Charles H. (See Brown, William H., assignor.)						
Sparks, John P., Austin, Tex. Street-car motor.....	362,795	May 10	1042	283	39	674
Sparks, William E., assignor to Sargent & Co., New Haven, Conn. Cylinder-lock.....	367,677	Aug. 2	485	134	40	542
Sparr, Benjamin F., Brooklyn, N. Y. Apparatus for disintegrating fibrous plants.....	370,286	Sept. 20	1400	376	40	1313
Sparrow, W. E. (See Whitney, Daniel D., assignor.)						
Spaulding, Albion K. and A. M., Belgrade, assignors to Augusta Wrench Company, Augusta, Me. Nut-wrench.....	357,869	Feb. 15	1644	428	38	746
Spaulding, Alpheus M. (See Spaulding, Albion K. and A. M.)						
Spaulding, Dudley J., and T. Thistlewood, Black River Falls, Wis. Plow-point.....	356,172	Jan. 18	1261	333	38	257
Spaulding, Elijah F., Oil City, assignor of one-third to J. K. Hallock, Erie, Pa. Valve-gear.....	362,400	May 3	455	126	39	564
Spaulding, Frank, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Micrometer-gage.....	368,554	Aug. 16	1763	468	40	803
Spaulding, George H., assignor to W. Deering, Chicago, Ill. Harvester.....	373,494	Nov. 22	1849	492	41	842
Spaulding, George H., Chicago, assignor to W. Deering, Evanston, Ill. Grain-binder.....	374,434	Dec. 6	373	98	41	1117
Spaulding, George H., assignor to W. Deering & Co., Chicago, Ill. Harvester.....	363,014	May 17	1349	357	39	738
Spaulding, George H., assignor to W. Deering & Company, Chicago, Ill. Mower.....	364,315	June 7	149	42	39	1117
Spaulding, Harlow E., Saratoga Springs, N. Y. Hand-truck.....	363,693	May 24	2311	600	39	933
Spaulding & Tewksbury, et al. (See Cushman, George H., assignor.)						
Spaulding, William H. H., Peru, Ind. Adjustable fire-back for stoves.....	372,577	Nov. 1	435	116	41	552
Speake, Rufus H., Camden, N. J., assignor to Powell Manufacturing Company, (limited,) Philadelphia, Pa. Spring-motor.....	360,739	Apr. 5	487	124	39	91
Speakman, John. (See Gough and Speakman.)						
Speakman, John. (See Gough, Speakman, and Canaday.)						
Spear, James, Philadelphia, Pa. Fire-place heater.....	362,120	May 3	96	29	39	492
Spear, Ralph, Fürth, Bavaria, Germany. Pencil-case and holder for crayons.....	362,121	May 3	96	30	39	492
Spear, Warren, Aurora, Ill. Machine for harvesting, picking, and husking corn.....	375,016	Dec. 20	1236	{ 322 323 324 }	{ 41 41 41 }	1303
Spear, Wickham B., Philadelphia, Pa., assignor to McDaniel & Harvey Company, of Pennsylvania. Apparatus for the manufacture of galvanized iron.....	362,906	May 10	1194	319	39	702
Speed, Joseph J., Waltham Cross, England. Cartridge-holder.....	372,181	Oct. 25	2088	535	41	431
Speed, Joseph J., Waltham Cross, England. Fire-arm.....	372,182	Oct. 25	2089	{ 535 536 }	{ 41 41 }	432

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Speer, Noah Q., Pittsburg, Pa. Sand-scoop	358,993	Mar. 8	851	216	38	1065
Speicher, Daniel L. (See Speicher, Joseph B. and D. L.)						
Speicher, Joseph B., and D. L., Wabash, Ind. Automatically supplying watering-troughs.	367,456	Aug. 2	135	39	40	477
Speicher, Mathias. (See Simpson, Mott, and Speicher.)						
Speidel, John G., Scranton, Pa. Hoisting apparatus	362,328	May 3	356	98	39	543
Speidel, John G., Scranton, Pa. Hoisting apparatus	362,329	May 3	358	99	39	543
Speight, Henry W., Brooklyn, N. Y. Refrigerating device	369,132	Aug. 30	2578	685	40	978
Speirs, John, Jersey City, N. J., assignor to himself and G. R. Christie, New York, N. Y. Audible signal	372,240	Oct. 25	2181	560	41	450
Spellman, Daniel J. (See Marr and Spellman.)						
Spellman, John. (See Waespi, Fretz, Spellman, and Frey.)						
Spelman, Irwin H., Cortland, Ohio. Wood veneering	358,495	Mar. 1	107	26	38	924
Spelman, Irwin H., Cortland, Ohio. Cask or barrel	368,026	Aug. 9	1002	270	40	650
Spence, Archibald, assignor to W. King, Montreal, Quebec, Canada. Water-heater	359,105	Mar. 8	997	{ 256 257 }	{ 38 }	1094
Spence, Charles D., assignor to Smith, Gray & Co., Brooklyn, N. Y. Supplementary waist-band	360,826	Apr. 5	607	159	39	114
Spence, Robert J. P., and R. Storrar, Letham, Ladybank, county of Fife, Scotland. Instrument for the measurement of horses' necks for fitting collars	365,873	July 5	162	42	40	33
Spence, William. (See Emery and Spence.)						
Spencer, Alice F. (See Spencer, James H., assignor.)						
Spencer, Anne C., East Greenwich, R. I. Toilet-case	368,027	Aug. 9	1003	270	40	650
Spencer, Edwin, Brooklyn, N. Y. Elevator-hatchway	373,619	Nov. 22	2038	542	41	877
Spencer, Esther R., assignor to Self Adjusting Corset Company, Rochester, N. Y. Lacing-bearing	364,057	May 31	2828	733	39	1037
Spencer, Herbert R. (See Gould and Spencer.)						
Spencer, James H., assignor to A. F. Spencer, New York, N. Y. Cleaning nuts, &c.	374,012	Nov. 29	2592	696	41	993
Spencer, Jervis, Baltimore County, Md. Horseshoe	355,727	Jan. 11	600	156	38	128
Spencer, John M., and G. W. Beebe, assignors of one-third to T. Chapman, Lawrence, Kans. Thill-coupling	355,795	Jan. 11	699	183	38	145
Spencer, Joseph M., La Plata, Mo. Hay-rake	362,330	May 3	360	99	39	544
Spencer, Julius A., Dwight, Ill. Horse-power	359,475	Mar. 15	1516	388	38	1198
Spencer, Lewis W., Hoosick Falls, N. Y. Lathe	356,509	Jan. 25	1737	453	38	354
Spencer, Mary J., Brooklyn, N. Y. Scholar's companion	355,417	Jan. 4	165	43	38	33
Spencer, Mass, Wellsborough, Pa. Automatic wagon-brake	357,870	Feb. 15	1645	428	38	746
Spencer, T. Frank, Providence, R. I. Dental-waste receptacle	357,421	Feb. 8	973	256	38	611
Spengler, C. George, assignor to C. Kiel and R. C. Spengler, Hoboken, N. J. Syringe	359,642	Mar. 22	1800	458	38	1266
Spengler, John G. (See Meredith, John, assignor.)						
Spengler, Rosalie C., et al. (See Spengler, C. George, assignor.)						
Sperry, Alfred N., New Haven, Conn. Snap-hook	359,408	Mar. 15	1418	363	38	1179
Sperry, Alfred W., assignor of three-tenths to G. W. Root, Hartford, Conn. Composition of matter as a substitute for hard rubber, &c.	358,082	Feb. 22	1943	.....	38	806
Sperry, Barton E., Batavia, Ill. Bake-oven cover	361,903	Apr. 26	2174	564	39	428
Sperry, Barton E., Batavia, Ill. Spider	367,250	July 26	2063	556	40	414
Sperry, Charles, New York, N. Y. Speed-indicator for vessels	372,874	Nov. 8	899	242	41	645
Sperry, Charles, New York, N. Y. Speed indicator and register	372,875	Nov. 8	901	{ 242 243 }	{ 41 }	645
Sperry, Elmer A., Chicago, Ill. Electric car-brake	360,060	Mar. 29	2469	629	38	1394
Sperry, Elmer A., Chicago, Ill. Apparatus for distributing electrical power	361,843	Apr. 26	2086	543	39	412
Sperry, Elmer A., Chicago, Ill. Safety device for incandescent lamps	361,844	Apr. 26	2088	543	39	412
Sperry, Elmer A., Chicago, Ill. Lightning-arrester	369,036	Aug. 30	2446	649	40	952
Sperry, Frank, et al. (See Sperry, James A., assignor.)						
Sperry, Fred. W. and T. L., Sparta, Tenn. Shaft-supporter	371,857	Oct. 18	1604	414	41	334
Sperry, James A., Brooklyn, assignor to C. A. Stevens, Woodsburg, and F. Sperry, New York, N. Y. Amalgamator	371,523	Oct. 11	1110	289	41	226
Sperry, Julius H., Brooklyn, N. Y. Toilet-paper holder	363,694	May 24	2312	600	39	933
Sperry, Norman. (See Smith, Albert U., assignor.)						
Sperry, Thomas L. (See Sperry, Fred. W. and T. L.)						
Sperry, Timothy S., Brooklyn, N. Y. Stair-pad	363,695	May 24	2314	600	39	933
Sperry, Timothy S., Brooklyn, N. Y. Stair-pad	372,941	Nov. 8	988	267	41	661
Spicer, Pratt A., Marshall, Mich. Animal-poke	366,983	July 19	1682	452	40	334
Spicer, Pratt A., Marshall, Mich. Spring harrow-tooth holder	369,037	Aug. 30	2447	649	40	952
Spicer, Vibe. (See Schreuder and Spicer.)						
Spicer, Vibe, and J. Schreuder, Pittsburg, Pa. Signal for railways	372,578	Nov. 1	436	116	41	552
Spielman, George D., Cincinnati, Ohio. Trunk-fastener	357,240	Feb. 8	731	190	38	565
Spies, Edgar F. M., Baltimore, Md. Bib	358,367	Feb. 22	2339	620	38	880
Spiess, Frederick. (See Doelfel and Spiess.)						
Spiess, John, Sr. (See Wehner, Christian, assignor.)						
Spikins, Charles. (See May and Spikins.)						
Spikins, Thomas. (See May and Spikins.)						
Spillane, William T., Casselton, Dak. Ter. Grain-car door	370,566	Sept. 27	1820	485	40	1398
Spinks, Rudd C., Crockett, Tex. Safety shaft-coupling	363,015	May 17	1351	357	39	738
Spinner, Andrew J., assignor of one-half to C. F. Cleaveland, Indianapolis, Ind. Conveying remedies to seat of disease	361,599	Apr. 19	1723	445	39	337
Spiral Conveyer Company. (See Green, William W., assignor.)						
Spire, Ambrose, Chautauqua, Kans. Disk-cultivator	374,503	Dec. 6	475	123	41	1137
Spiro, Charles, New York, N. Y. Inking device for type-writing machines	355,418	Jan. 4	165	43	38	33
Spitzer, Sigmund, Vienna, Austria-Hungary. Manufacture of starch	361,788	Apr. 26	2006	522	39	397
Spivey, John M., et al. (See Spivey, Luke, assignor.)						
Spivey, Luke assignor of three-fourths to W. A. Edwards, H. C. Rush, Dixon, and J. M. Spivey, Edinburg, Miss. Back-band hook and line-holder	373,538	Nov. 22	1927	511	41	856
Spivey, Thomas S., assignor to Victor Safe and Lock Company, Cincinnati, Ohio. Permutation-lock	371,284	Oct. 11	779	200	41	161
Spivey, Thomas S., assignor to Victor Safe and Lock Company, Cincinnati, Ohio. Permutation-lock	372,498	Nov. 1	310	85	41	530
Splane, John, assignor of one-third to S. T. Beale, Jr., Philadelphia, Pa. Metallic railway-tie	367,325	July 26	2174	584	40	434
Spooner, Ebenezer, New York, N. Y. Straw-board-lining machine	361,094	Apr. 12	1008	{ 254 255 }	{ 39 }	193
Spooner, Frederick B., Brooklyn, N. Y. Suspender-end	372,820	Nov. 8	818	219	41	631
Spooner, Frederick B., Brooklyn, N. Y. Buckle	372,821	Nov. 8	819	219	41	631
Spooner, George D., Rutland, Vt. Muzzle for animals	368,430	Aug. 16	1580	422	40	770
Spooner, Joseph B., Oleana, Ill. Capstan	357,871	Feb. 15	1646	428	38	746
Sprado, William A., Racine, Wis. Device for fastening doors	355,419	Jan. 4	167	43	38	34

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Sprague, Arthur A., New York, N. Y. Tag for money-bags, &c	374,812	Dec. 13	919	240	41	1235
Sprague, Charles A. (See Sprague, Daniel A., assignor.) (Reissue.)						
Sprague, Daniel A., assignor of one-half to C. A. Sprague, Poland, N. Y. Vehicle running-gear. (Reissue)	10,800	Jan. 18	1633	427	38	327
Sprague, Daniel A., Poland, and S. Perry, Newport, N. Y. Wagon running-gear	363,428	May 24	1911	{ 502 503 }	{ 39	856
Sprague Electric Railway and Motor Company. (See Sprague, Frank J., assignor.)						
Sprague, Frank J., New York, N. Y. Electric motor	372,823	Nov. 8	822	220	41	631
Sprague, Frank J., New York, N. Y. Electrical pumping apparatus	372,824	Nov. 8	823	220	41	632
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Railway and Motor Company. Dynamo-electric machine	372,822	Nov. 8	820	{ 219 220 }	{ 41	631
Sprague, Henry L., Tottenville, N. Y. Lawn-cutter	363,260	May 17	1679	440	39	803
Sprague, James H., assignor to L. Brothers, Providence, R. I. Locket	358,416	Feb. 22	2405	640	38	893
Sprague, Oscar L., assignor of one-half to C. W. Snodgrass, Andover, Ohio. Carpet-stretcher	364,058	May 31	2829	734	39	1037
Spranger, Anthony, Detroit, Mich. Plumb-level	369,750	Sept. 13	595	162	40	1156
Spring, George S., Geneva, Ohio. Attachment for coffee and tea pots	362,550	May 10	676	189	39	607
Spring, George S., Geneva, Ohio. Fence	364,685	June 14	666	178	39	1222
Sprengel, Hermann J. P., Pimlico, county of Middlesex, England. Obtaining sulphuric acid by the aid of waste steam	357,107	Feb. 1	512	135	38	517
Springer, Alfred, Cincinnati, Ohio, and W. Kent, Jersey City, N. J. Grain-meter	365,874	July 5	162	42	40	33
Springer, Alfred, Cincinnati, Ohio, and W. Kent, Jersey City, N. J. Grain-meter	365,875	July 5	164	43	40	33
Springer, Alfred, Cincinnati, Ohio, and W. Kent, Jersey City, N. J. Grain-meter	365,876	July 5	166	43	40	34
Springer, Alfred, Cincinnati, Ohio, and W. Kent, Jersey City, N. J. Grain-meter	365,877	July 5	167	43	40	34
Springer, John. (See Materne and Springer.)						
Springer, John, Clinton, Wis. Furnace	363,261	May 17	1681	440	39	804
Springer, Stephen H., Des Moines, Iowa. Car-coupling	360,926	Apr. 12	750	197	39	146
Springer, Theodore G., New York, N. Y. Process of and apparatus for manufacturing gas	361,190	Apr. 12	1159	294	39	220
Springer, Theodore G., New York, N. Y. Process of and apparatus for manufacturing gas	361,191	Apr. 12	1161	294	39	221
Springer, Theodore G., New York, N. Y. Treating natural gas	370,358	Sept. 20	1502		40	1333
Springer, Theodore G., New York, N. Y., assignor to National Gas Light and Fuel Company, Chicago, Ill. Process of and apparatus for manufacturing gas	362,233	May 3	239	69	39	519
Springfield Bicycle Manufacturing Company. (See McCune, Joseph B., assignor.)						
Springfield Bicycle Manufacturing Company. (See Torkelson, Reinhard T., assignor.)						
Springfield Bicycle Manufacturing Company. (See Yost, Joseph L., assignor.) (Reissue.)						
Springfield Bicycle Manufacturing Company. (See Yost and McCune, assignors.)						
Springsteen, Nelson E., Royal Oak, Mich. Car-coupling	363,262	May 17	1682	440	39	804
Springsteen, Nelson E., Royal Oak, Mich. Bridle-bit	371,106	Oct. 4	533	136	41	105
Springsteen, Nelson E., Detroit, Mich. Safety-switch	364,970	June 14	1105	288	39	1301
Sprinkle, Clarence C., assignor of one-half to W. B. Sproul and L. E. Sprinkle, Majenica, Ind. Barn-door fastening	365,649	June 28	2116	553	39	1513
Sprinkle, Levi E., et al. (See Sprinkle, Clarence C., assignor.)						
Sprogle, Ralph O., assignor of one-half to J. E. Low, Chicago, Ill. Expanding bung	361,030	Apr. 12	919	233	39	175
Sproul, Robert. (See Hare and Sproul.)						
Sproul, Robert, Pittsburg, Pa. Door-operating device for cabs and other vehicles	375,213	Dec. 20	1514	{ 397 398 }	{ 41	1357
Sproul, Wilson B., et al. (See Sprinkle, Clarence C., assignor.)						
Sprowles, Christian B. M. (See Houseman and Sprowles.)						
Sprowles, John W., Philadelphia, Pa. Box	360,366	Mar. 29	2938	747	38	1479
Spruce, James, Waterbury, Conn. Making shade-holders	373,696	Nov. 22	2148	575	41	900
Spühl, Heinrich, St. Fiden, near St. Gall, Switzerland. Machine for fastening the extremities of spiral springs	363,092	May 17	1454	385	39	759
Spur, Clarence. (See Wilson, George, assignor.)						
Spurgin, John H., Carthage, Mo. Band-cutter and feeder for thrashing-machines	365,548	June 28	1974	{ 514 515 }	{ 39	1488
Spurgin, William F., U. S. Army. Desk	358,229	Feb. 22	2154	568	38	845
Spurling, Andrew B. (See Stave, Lewis A., assignor.)						
Spurny, Francis. (See Klán and Spurny.)						
Squier, Charles A. (See Squier, Daniel and C. A.)						
Squier, Daniel and C. A., Battle Creek, Mich. Tag-wiring machine	370,425	Sept. 27	1608	428	40	1360
Squier, Frank, Hamburg, Iowa. Staple-extractor	356,697	Jan. 25	1996	524	38	403
Squier, George W. (See Moore, Solon E., assignor.)						
Squires, Arthur C., assignor to I. B. Kleinert, College Point, N. Y. Vulcanizing-machine	375,017	Dec. 20	1240	324	41	1303
Squires, Henry G., Pittsburg, Pa. Inkstand	368,431	Aug. 16	1582	422	40	770
Squires, John S., Jordan, assignor to himself and W. M. Cooke, Monroe, Wis. Stone-dressing hammer	365,707	June 28	2207	576	39	1530
St. Clair, Augustus A., assignor of one-half to T. M. Richardson, Van Buren, Ind. Car-brake	358,948	Mar. 8	787	198	38	1054
St. Clair, Fannie, New York, N. Y. Combined skirt and protector	365,450	June 28	1823	474	39	1456
St. Clair, John. (See Pantall, Thomas M., assignor.)						
St. German, Marshall, Fairfield, Vt. Stable-floor	357,875	Feb. 15	1650	429	38	747
St. John, A. J. (See Zeller, Melancthon E., assignor.)						
St. John, Enos F., Highland Station, Mich. Spirit-level	375,222	Dec. 20	1523	400	41	1359
St. John, Garland B., Kalamazoo, Mich. Plow	373,497	Nov. 22	1856	493	41	843
St. John, George B., Boston, Mass. Thermometer	365,354	June 21	1672	436	39	1416
St. John, George B., Boston, Mass. Thermometer-scale	367,863	Aug. 9	768	207	40	606
St. John, George B., Boston, assignor to Standard Thermometer Company, Peabody, Mass. Stop-watch	360,828	Apr. 5	609	160	39	114
St. John, William W., Brooklyn, N. Y. Packing-ring for pistons	355,730	Jan. 11	604	157	38	128
St. John, William W., Brooklyn, N. Y. Packing-ring for pistons	360,121	Mar. 29	2581	655	38	1414
St. Lawrence, Henry, Northampton, Mass. Making the eyes of hoes	367,326	July 26	2175	{ 584 585 }	{ 40	435
St. Louis Car Seat Company. (See McKelvey and Van Beek, assignors.)						
St. Louis Corset Company. (See McCabe, William, assignor.)						
St. Louis Shovel Company. (See Groom, Patrick W., assignor.)						
Staats, William H., assignor of one-half to J. F. Griffin, Chicago, Ill. Money-changer	364,141	May 31	2952	{ 766 767 }	{ 39	1060
Stabler, James P., Sandy Spring, Md. Steam-pressure regulator	357,422	Feb. 8	974	256	38	611
Stack, Patrick W., et al. (See Suratt, Ralph M., assignor.)						
Stacy, William H., Waynesville, Ohio. Counter-box	364,316	June 7	151	42	39	1117
Stafford, George W., Providence, R. I. Compart-board for Jacquard looms	369,565	Sept. 6	348	97	40	1101
Stafford, John E., and J. T. Pearson, said Stafford assignor to J. Stephenson, Burnley, county of Lancaster, England. Furnace for the combustion of refuse	363,558	May 24	2113	{ 547 548 }	{ 39	895
Stafford, Marshall B., New York, N. Y. Apparatus for heating and ventilating cars	373,495	Nov. 22	1853	493	41	843

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Staggs, Benjamin F., Hendersonville, N. C. Churn	362,401	May 3	457	126	39	564
Stahl, Edwin F., <i>et al.</i> (See Ferguson, George J., assignor.)						
Stahl, George H., Quincy, Ill. Machine for loading cartridges	366,744	July 19	1370	367	40	276
Stahl, George H., Quincy, Ill. Incubator	368,249	Aug. 16	1335	352	40	720
Stahl, Louis A., and J. T. Wooster, Litchfield, Ill. Car-brake	365,708	June 28	2208	577	39	1530
Stahl, Sidney S., Connellsville, Pa. Snap-hook	370,983	Oct. 4	372	93	41	74
Stahlberg, Charles, La Salle, Ill. Manufacture of shafts and pinions for clock-works	355,624	Jan. 4	426	{ 117 118 }	{ 38 41 }	85 292
Stahle, Jacob A., Bucyrus, Ohio. Picture-frame hanger	371,716	Oct. 18	1395	360	41	292
Stalib, Adolph, Baltimore, Md. Street-clock	364,971	June 14	1107	288	39	1302
Stair, John E., Easton, Pa. Washing-machine	372,241	Oct. 25	2184	560	41	450
Stallcup, John W., assignor of one-half to L. S. Crain, Shreveport, La. Stirrup	375,103	Dec. 20	1366	356	41	1326
Stallcup, William P., Comanche, Tex. Evaporator and furnace	367,120	July 26	1871	506	40	377
Stallings, Jeremiah W., Heflin, Ala. Plow	367,457	Aug. 2	136	39	40	477
Stallman, Granville H., assignor of one-half to M. Siereveld, Cincinnati, Ohio. Meat-cutter	365,206	June 21	1451	{ 382 383 }	{ 39 40 }	1375
Stalter, Milo. (See Stalter, Nicholas, assignor.)						
Stalter, Nicholas, assignor of one-half to M. Stalter, Grand Rapids, Mich. Gage for wood-working machines	363,016	May 17	1354	357	39	739
Stamats, William A. (See Sanders and Stamats.)						
Stambaugh, Charles W., assignor to C. Wetzig, Jr., Cleveland, Ohio. Egg-beater	362,858	May 10	1120	302	39	688
Stambaugh, David N. (See Hageman, John S., assignor.)						
Stamm, Ferdinand, Milwaukee, Wis. Fastener for meeting-rails of windows	357,943	Feb. 15	1740	454	38	763
Stammers, Henry E. (See Gray and Stammers.)						
Stammmer, Fred W., Johnstown, Pa., assignor to Cambria Iron Company, of Pennsylvania. Rolling-mill	375,657	Dec. 27	2118	550	41	1479
Stanchfield, George M., St. Paul, Minn. Composition for softening printers' ink	369,969	Sept. 13	932	.....	40	1219
Standard Car Axle Lubricator Company. (See Faas, Rudolph, assignor.)						
Standard Electric Clock Company. (See Himmer, Vitalis, assignor.)						
Standard Electric Company of Vermont. (See Whitney, Edwin R., assignor.)						
Standard Gas Machine and Portable Gas Lamp Company. (See Bennett, Orson W., assignor.)						
Standard Hand Rock Drill Company. (See Bergh, Bror F., assignor.)						
Standard Lamp Company. (See Kistler, Willoughby F., assignor.)						
Standard Multiplex Telegraph Company. (See Brown, Robert G., assignor.)						
Standard Nail and Tack Company. (See Hirt, Louis J., assignor.)						
Standard National Gas Burner Company. (See Smith, James R., assignor.)						
Standard Optical Company. (See Brackett, Marrick C., assignor.)						
Standard Pencil Company. (See Smith, James B., assignor.)						
Standard Thermometer Company. (See St. John, George B., assignor.)						
Standard Underground Cable Company. (See Degenhardt, Frederick E., assignor.)						
Standard Underground Cable Company. (See Wiley, George L., assignor.)						
Standing, Amos, Duquoin, Ill. Seal-lock	371,798	Oct. 18	1512	390	41	315
Stanford, Arthur L., Waukegan, Ill. Device for drilling rails, girders, and the like	358,755	Mar. 1	491	120	38	995
Stanford, Arthur L., Waukegan, Ill. Ratchet-drill	371,858	Oct. 18	1605	{ 414 415 }	{ 41 41 }	334
Stanford, Arthur L., Waukegan, Ill. Drilling-machine	371,859	Oct. 18	1607	415	41	335
Stanford, Charles P., San Francisco, Cal. Device for operating hatchway-doors	368,432	Aug. 16	1583	{ 422 423 }	{ 40 41 }	770
Stang, Hans G. J., Christiania, Norway. Optical recording-instrument	373,206	Nov. 15	1409	372	41	748
Stangl, John, Harlem, Mo. Vine-securing device	368,790	Aug. 23	2094	554	40	875
Stanhope, Gilbert J., and E. B. Esty, Cleveland, Ohio. Fire-escape	359,643	Mar. 22	1801	458	38	1266
Staniland, Frank. (See Staniland, Thomas and F.)						
Staniland, Thomas and F., Dayton, Ohio. Hame-fastener	371,860	Oct. 18	1609	415	41	335
Stanley, Frank F., <i>et al.</i> , trustees. (See Goddu, Louis, assignor.)						
Stanley, Frank F., <i>et al.</i> , trustees. (See Murray, Henry F., assignor.)						
Stanley, George C., Ithaca, N. Y. Stop-shutter or diaphragm light-controller for photographic cameras	363,429	May 24	1916	503	39	857
Stanley, Henry, <i>et al.</i> (See Cornelius, Nicholas, assignor.)						
Stanley, Henry, St. Louis, Mo. Roughening and corrugating the surfaces of grinding-rolls	357,872	Feb. 15	1647	.....	38	746
Stanley, James D., Eastover, S. C., assignor to C. P. Stevenson, Pittsburg, Pa. Device for charring surfaces of timber	361,095	Apr. 12	1010	255	39	193
Stanley, James D., Eastover, S. C., assignor to C. P. Stevenson, Pittsburg, Pa. Brick-kiln	361,192	Apr. 12	1165	294	39	221
Stanley, James D., Eastover, S. C., assignor to C. P. Stevenson, Pittsburg, Pa. Device for charring logs	361,193	Apr. 12	1165	295	39	221
Stanley, James D., Eastover, S. C., assignor to C. P. Stevenson, Pittsburg, Pa. Lumber-drier	367,458	Aug. 2	137	40	40	477
Stanley, Lucius T., Brooklyn, N. Y., assignor to A. N. Lindsley, Orange, N. J. Pocket-battery	363,304	May 17	1739	{ 455 456 }	{ 39 40 }	815
Stanley, Reginald, Nuneaton, county of Warwick, England. Machine for pressing and molding bricks, &c	361,464	Apr. 19	1533	397	39	301
Stanley, William, Jr., Pittsburg, Pa. System of electrical regulation	372,942	Nov. 8	989	267	41	662
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Incandescent electric lamp	363,559	May 24	2114	{ 548 549 }	{ 39 40 }	896
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Automatic regulator for electric motors	366,267	July 12	710	193	40	142
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Electric meter	366,268	July 12	712	193	40	142
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Automatic regulator for electric distribution	366,523	July 12	1047	285	40	208
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. System of electrical distribution and conversion	372,943	Nov. 8	990	268	41	662
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Electrical distribution and conversion	372,944	Nov. 8	993	268	41	662
Stanley, William, Jr., Great Barrington, Mass., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Dynamo-electric machine	372,945	Nov. 8	995	268	41	663
Stanley, William, Jr., Englewood, N. J., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Regulation of electric motors	374,910	Dec. 13	1069	{ 279 280 }	{ 41 42 }	1264
Stanley Works. (See Corscaden, Thomas, assignor.)						
Stannard, George A., Chicago, Ill. Lubricator	356,800	Feb. 1	81	23	38	438
Stanour, John B., Jersey City, N. J. Carburetor	356,337	Jan. 18	1490	393	38	300
Stansbury, John T., Elkhart, Ind. Hair-curler	372,092	Oct. 25	1963	565	41	407
Stansel, Alonzo, Yorkville, Ill. Broadcast seeder	368,555	Aug. 16	1765	{ 468 469 }	{ 40 41 }	804
Stansell, William, Dowagiac, Mich. Combined stove-shelf and heater	371,285	Oct. 11	781	200	41	161

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Stansfield, James, Todmorden, county of York, England. Asphalt pavement	375,018	Dec. 20	1241		41	1303
Stanton, Alfred E. (See Bragaw, John A., assignor.)						
Stanton, Fread, assignor to E. S. Brown, receiver, Stillwater, Minn. Grain-register	373,805	Nov. 22	2301	616	41	929
Stanton, Henry, Flushing, Ohio. Steam-boiler	363,017	May 17	1355	358	39	739
Stanton, Henry, Flushing, Ohio. Steam-boiler	368,624	Aug. 23	1856	496	40	830
Stanwood, James B., Cleveland, assignor of one-half to Lane & Bodley Company, Cincinnati, Ohio. Manufacture of crank-shafts	359,290	Mar. 15	1243	323	38	1147
Stanwood, James B., assignor to Lane & Bodley Company, Cincinnati, Ohio. Steam-generator	359,333	Mar. 15	1301	337	38	1157
Stapleton, Matt, Stevens Point, Wis. Bridle	356,668	Jan. 25	1961	515	38	397
Staples, Charles A., Cambridge, Mass. Extension-ladder	368,737	Aug. 23	2024	536	40	862
Staples, George, Pittsfield, Ohio. Implement for pulverizing lumpy ground	373,157	Nov. 15	1327	352	41	733
Staples, George A., Augusta, Me. Framing-square	370,215	Sept. 20	1305	348	40	1295
Staples, John M., Rose Mills, Va. Nut-lock	363,430	May 24	1917	503	39	857
Stapp Gas Light and Heat Company. (See Dwelle and Stapp, assignors.)						
Stapp, Robert B., et al. (See Dwelle, Charles W., assignor.)						
Stapp, Robert B. (See Dwelle and Stapp.)						
Starbird, Austin C. (See Emerson and Starbird.)						
Stare, Elias A., Sibley, Ill. Machine for cutting drain-tiles to form elbows, branches, &c.	356,801	Feb. 1	82	23	38	439
Staring, Sylvanus S., Silver Creek, N. Y. Step-ladder	359,186	Mar. 8	1089	284	38	1112
Stark, Andrew, Chicago, Ill. Harvesting-machine	355,728	Jan. 11	601	157	38	128
Stark, Andrew, Chicago, Ill. Grain-harvester	357,640	Feb. 15	1313	{ 345 346 }	{ 38 38 }	{ 684 684 }
Stark, Andrew, Chicago, Ill. Grain-harvester	360,061	Mar. 29	2471	{ 629 630 }	{ 38 38 }	{ 1395 1395 }
Stark, Andrew, Chicago, Ill. Bed-lounge	370,095	Sept. 20	1128	299	40	1262
Stark, Andrew, Chicago, Ill. Folding bed	370,426	Sept. 27	1609	429	40	1360
Stark, Andrew, Chicago, Ill. Grain-harvester	372,339	Nov. 1	77	23, 24	41	486
Stark, John, Jr., Waltham, Mass. Mainspring-winder	356,802	Feb. 1	83	23	38	439
Starr, Eli T., Philadelphia, Pa., assignor, by mesne assignments, to Electrical Accumulator Company, of New York. Device for regulating the flow of electric currents	357,873	Feb. 15	1647	429	38	746
Starr, Eli T., Philadelphia, Pa., assignor, by mesne assignments, to Electrical Accumulator Company, of New York. Charging and discharging secondary batteries	359,900	Mar. 22	2204	555	38	1338
Starr, Eli T., Philadelphia, Pa., assignor, by mesne assignments, to Electrical Accumulator Company, of New York. Mechanism for charging secondary batteries	359,901	Mar. 22	2206	555	38	1338
Starr, Ferdinand W., Springfield, Ohio. Wheel	366,269	July 12	714	194	40	143
Starr, Joseph, New London, Conn. Cash-carrier	359,037	Mar. 8	905	231	38	1076
Starrett, Laroy S. (See Fay, Charles P., assignor.)						
Starrett, Laroy S., Athol, Mass. Leg-joint for calipers, dividers, &c.	375,658	Dec. 27	2120	550	41	1480
Starry, William H. (See Lupton and Starry.)						
Startzman, George W. (See Mast and Startzman.)						
States, Christian. (See Vaughn and States.)						
Statham, Enoch, and H. Price, Newport, Ky. Anvil	358,756	Mar. 1	492	120	38	995
Stauber, Benjamin T., Moberly, Mo. Gas-machine	362,234	May 3	242	69	39	520
Staubitz, Adam, assignor to G. W. Lehmann and C. G. A. Schulze, Baltimore, Md. Clock-dial	372,642	Nov. 1	530	145	41	571
Stauffer, David F., York, Pa. Bretzel and cracker manufacturing apparatus	366,041	July 5	403	{ 109 110 }	{ 40 40 }	{ 76 76 }
Stauffert, Louis, Dinglingen, near Lahr, Germany. Stirring or mixing apparatus	364,059	May 31	2830	734	39	1038
Staunton, J. Galusha, Ellicottville, N. Y. Portable runway for poultry-houses	366,696	July 19	1304	349	40	264
Staunton, J. Galusha, Ellicottville, N. Y. Poultry-house front	366,697	July 19	1305	{ 349 350 }	{ 40 40 }	{ 264 264 }
Staunton, J. Galusha, Ellicottville, N. Y. Forage-creel for poultry-houses	366,698	July 19	1306	350	40	265
Staunton, J. Galusha, Ellicottville, N. Y. Appliance for poultry-houses	366,699	July 19	1308	351	40	265
Stave, Lewis A., Chicago, assignor of five-eighths to A. B. Sparling, Elgin, Ill. Fire-arm	364,446	June 7	339	93	39	1153
Sté. Alamagny et Oriol. (See Fouillet-Chevaucé, Marie H., assignor.)						
Steam Gauge and Lantern Company. (See Forbes, James H., assignor.)						
Steam Gauge and Lantern Company. (See Gall, John S., assignor.)						
Steam Gauge and Lantern Company. (See Glazier, Elias C., assignor.)						
Steam Gauge and Lantern Company. (See Kline, David C., assignor.)						
Steam Gauge and Lantern Company. (See Wright, Frederick K., assignor.)						
Stearns, Alvey E., and S. A. Waterstreet, Amsterdam, N. Y. Chuck	363,431	May 24	1917	503	39	857
Stearns, George F., Chester, assignor of one-half to R. J. Allyn, Hartford, Conn. Apparatus for making molds for twisted articles	356,430	Jan. 18	1622	425	38	324
Stearns, Henry F., assignor of one-half to E. G. Rawson, Saratoga Springs, N. Y. Routing-tool	356,429	Jan. 18	1621	425	38	324
Stearns, J. Milton, Jr., Brooklyn, N. Y. Variable electric resistance	362,859	May 10	1121	302	39	689
Stearns, Mordaunt L., Detroit, Mich. Car-axle box	369,888	Sept. 13	809	215	40	1197
Stearns, Theron C., assignor to E. R. Shaw, Cedar Rapids, Iowa. Method of and apparatus for testing acids	362,402	May 3	458	127	39	564
Steavens, Charles H., St. John's, Mich. Plow-wheel	364,735	June 14	739	197	39	1236
Stebbins, James H., Jr., New York, N. Y. Food compound	369,660	Sept. 6	485	.....	40	1127
Stecher, Max, assignor of one-half to C. Wiegmann, Philadelphia, Pa. Electric alarm-clock	365,493	June 28	1882	490	39	1468
Steck, George, New York, N. Y. Piano	365,412	June 28	1764	458	39	1446
Steck, George, New York, N. Y. Piano	367,073	July 26	1806	487	40	366
Steddom, Henry, Jr., Oskaloosa, Iowa. Thatched roofing and method of and apparatus for constructing the same	370,984	Oct. 4	372	93	41	74
Stedman, David R. (See Stedman, George A. and D. R.)						
Stedman, George A., New York, N. Y., and D. R. Stedman, Elizabeth, N. J. Railway-signal	374,132	Nov. 29	2766	743	41	1027
Steel, Charles F., New York, N. Y. Table	367,678	Aug. 2	487	134	40	543
Steel, Robert, Philadelphia, Pa. Wardrobe-bedstead	375,391	Dec. 27	1745	458	41	1410
Steel, Robert, assignor of one-half to T. H. Hayes, Philadelphia, Pa. Car-coupling	371,861	Oct. 18	1609	416	41	335
Steel, Robert, assignor of one-half to V. W. Walter, Philadelphia, Pa. Furnace	373,030	Nov. 8	1134	303	41	686
Steele, Benjamin M., Peoria, Ill. Front-facing automatic feathering-oar	358,757	Mar. 1	493	121	38	995
Steele, Charles R., et al. (See Wilson, Merrick F., assignor.)						
Steele, John G. (See Blumenthal and Steele.)						
Steele & Johnson Manufacturing Company. (See Fox, Frank A., assignor.)						
Steele, Joseph, assignor of one-third to A. Albrecht, San Francisco, Cal. Chisel-cutter for sash and blinds	368,556	Aug. 16	1767	469	40	804
Steele, Matthew. (See Wigg, Steele, and Wigg.)						
Steele, Oliver, Georgetown, Tex. Andiron	366,133	July 5	522	141	40	99
Steele, Patterson, Lexington, Ky. Gate	359,746	Mar. 22	1949	494	38	1293

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Steele, Wilbur F. (See Young, Henry M., assignor.)						
Steer, Alfred, St. Leonards on Sea, county of Sussex, England. Means for checking cash received	368,557	Aug. 16	1767	{ 469 470 }	{ 40 }	804
Steers, William, Brattleborough, Vt. Steam-engine	357,423	Feb. 8	976	{ 256 257 }	{ 38 }	612
Steffa, William A., Rockvale, Ill. Combined feed-cooker and scalding	366,042	July 5	405	110	40	76
Steffen, John B. (See Olson, John A., assignor.)						
Steffens, Mathew J., Chicago, Ill. Aerial photographic apparatus	359,902	Mar. 22	2208	{ 555 556 }	{ 38 }	1339
Steffens, Mathew J., Chicago, Ill. Hair-pin	370,096	Sept. 20	1131	299	40	1262
Steffey, John L., Hagerstown, Md. Fastening device	373,860	Nov. 29	2381	640	41	952
Stege, Julius A., Louisville, Ky. Inkstand-cap	371,717	Oct. 18	1396	360	41	293
Stegner, Frederick A., Cincinnati, Ohio. Tub-fastener	364,447	June 7	341	94	39	1153
Stein, Lewis, New York, N. Y. Spring-clasp	362,189	May 3	181	54	39	509
Steinau, Isaac, New York, N. Y. Collar-button	356,559	Jan. 5	1812	474	38	368
Steinberg, David, Chicago, Ill. Mosquito and fly protector	356,015	Jan. 11	1027	270	38	208
Steinberger, Louis, New York, N. Y. Reversible folding slate	365,549	June 28	1976	515	39	1488
Steinecke, Samuel, Brooklyn, N. Y., assignor to C. A. Schmidt, Hoboken, N. J. Manufacturing shaped chenille fringe	365,494	June 28	1884	491	39	1468
Steiner, August, Homewood, Ill. Hand corn harvester and husker	358,496	Mar. 1	108	26, 27	38	924
Steiner, David, Adamsburg, Pa. Nut-lock	373,697	Nov. 22	2149	575	41	900
Steiner, Jacob, Jr., and S. S., New York, N. Y. Device for forming cigar-heads	364,736	June 14	739	197	39	1236
Steiner, John, Norwich, Conn. Toy	364,553	June 7	498	134	39	1182
Steiner, Sidney S. (See Steiner, Jacob, Jr., and S. S.)						
Steinfeld, Samuel, and W. R. Foust, Leetonia, Ohio. Show-case	364,448	June 7	342	94	39	1154
Steinhart, Ignaz, Dresden, Saxony, Germany. Asbestine leaden texture	363,018	May 17	1356	358	39	739
Steinhauser, Frank J., Lancaster, Pa. Combined filling and packing device	370,427	Sept. 27	1613	{ 429 430 }	{ 40 }	1361
Steinke, Theo. G. (See Butler, Edward, assignor.)						
Steinkoenig, Frederick, assignor of one-half to V. Marz, Cincinnati, Ohio. Device for preventing water-pipes from freezing	357,241	Feb. 8	732	190	38	565
Steinle, William M., Toledo, Ohio, assignor of one-half to J. Bowman, Allegheny City, Pa. Grain-binder	375,659	Dec. 27	2121	{ 550 551 }	{ 41 }	1480
Steinle, William M., and A. Senn, Toledo, Ohio. Cigar-bunching machine	364,060	May 31	2831	{ 734 735 }	{ 39 }	1038
Steinmetz, Martin V. B., assignor to Perfect Block Pavement Company, New York, N. Y. Machine for making paving and building blocks from slag	360,785	Apr. 5	548	142	39	103
Steinson, George, Guttenberg, N. J. Spring bed-bottom	357,795	Feb. 15	1546	403	38	727
Steller, Charles E., Milwaukee, Wis. Transom-lifter	358,579	Mar. 1	250	58	38	950
Steller, Charles E., Milwaukee, Wis. Knob attachment	365,878	July 5	170	44	40	34
Stempel, Omar A., St. Louis, Mo. Lamp-stove	371,152	Oct. 4	595	{ 152 153 }	{ 41 }	117
Stempel, Omar A., assignor, by mesne assignments, of one-half to F. Meyrose, St. Louis, Mo. Apparatus for generating steam and heating rooms	363,305	May 17	1741	456	39	815
Stengel, Henry, Yonkers, N. Y. Saddle	363,487	May 24	2008	524	39	876
Stennett, W. H. (See Sewall, Joseph A., assignor.)						
Stephens, Charles M. (See McGurrian, Charles H., assignor.)						
Stephens, Cyrus, and C. A. Carter, Lewis Creek, Ind. Straw-rope machine	369,479	Sept. 6	926	64	40	1076
Stephens, Herman R., Soledad, Cal. Automatic regulator for windmills	356,295	Jan. 18	1429	376	38	289
Stephens, James R., Saltillo, Miss. Alternative sirup	367,679	Aug. 2	488	.....	40	543
Stephens, John O., St. Joseph, Mo. Truss	369,566	Sept. 6	349	97	40	1101
Stephens, Joseph B. (See Upham, Andrew J., assignor.)						
Stephens, Joseph J., Coalesburg, assignor to himself and W. H. Weller, St. Louis, Mo. Obstetrical supporter	359,903	Mar. 22	2209	556	38	1339
Stephens, W. J., et al. (See Ridley, James M., assignor.)						
Stephenson, George, Windsor, Ontario, Canada. Hot-air furnace	369,480	Sept. 6	228	64	40	1077
Stephenson, John. (See Stafford and Pearson, assignors.)						
Stephenson, John, New York, N. Y. Tram-car signal apparatus	361,904	Apr. 26	2175	564	39	428
Stephenson, John, New York, N. Y. Signaling apparatus for tram-cars	362,042	Apr. 26	2378	620	39	463
Stephenson, Richard. (See Coupal and Stephenson.)						
Sterling, Ezra J., Brooklyn, N. Y. Paper-cutting machine	370,287	Sept. 20	1401	{ 376 377 }	{ 40 }	1314
Sterling, Sherwood. (See Christie, Jacob, assignor.)						
Stern, Aaron, New York, N. Y. Bustle	368,558	Aug. 16	1769	470	40	805
Stern, Isidor, et al. (See Washburn, Francis M., assignor.)						
Stern, William A., Allegheny City, Pa. Electric meter	375,392	Dec. 27	1746	458	41	1410
Stern, William A., assignor of one-half to I. Coblens, Allegheny City, Pa. Apparatus for detecting leaks in gas-pipes	358,949	Mar. 8	788	199	38	1054
Sternberg, George M., U. S. Army. Electro-magnetic regulator for valves	355,892	Jan. 11	846	223	38	171
Sternberg, George M., U. S. Army. Electro-magnetic regulator for dampers and valves	355,893	Jan. 11	850	223	38	172
Sternberg, George M., U. S. Army. Electro-magnetic regulator for dampers and valves	355,894	Jan. 11	853	223	38	172
Sternberg, George M., U. S. Army. Electric bell	373,102	Nov. 15	1233	329	41	717
Sternberg, George M., U. S. Army. Electric valve-controller	373,103	Nov. 15	1235	{ 329 330 }	{ 41 }	717
Sternberg, George M., U. S. Army. Electric valve-controller	373,104	Nov. 15	1238	330	41	718
Sternberg, George M., U. S. Army, and A. A. Lehmann, Baltimore, Md.; said Lehmann assignor to said Sternberg. Electro-magnetic regulator for valves and dampers	355,895	Jan. 11	856	224	38	173
Sterns, Alvin M., Lamar, Mo. Wick	373,496	Nov. 22	1855	493	41	843
Sterrett, Jacob S., Philadelphia, Pa. Automatic car-brake	360,062	Mar. 29	2479	630	38	1396
Sterrett, Jacob S., Philadelphia, Pa. Automatic car-brake	371,799	Oct. 18	1514	390	41	316
Sterrett, W. B. (See Pearce, Frederick, assignor.)						
Stetler, Wellington O., Beavertown, and J. W. Klingler, Middle Creek, assignors of one-third to A. C. Simpson, Selin's Grove, Pa. Car-coupling	359,904	Mar. 22	2210	556	38	1339
Stetson, Charles T., Rockland, assignor of one-half to O. W. Whitcher, Hyde Park, F. W. Whitcher, Boston, and J. H. Emery, Quincy, Mass. Machine for making metallic shanks for boots	356,734	Jan. 25	2049	{ 537 538 }	{ 38 }	413
Stetson, Charles T., Rockland, assignor of one-half to O. W. Whitcher, Hyde Park, F. W. Whitcher, Boston, and J. H. Emery, Quincy, Mass. Machinery for making metallic shanks for boots and shoes	356,735	Jan. 25	2050	538	38	413
Stetson, Charles W. (See Tingley and Stetson.)						
Stetson, Frank H., Lawrence, Mass. Loom-shuttle	375,104	Dec. 20	1367	356	41	1327
Stetson, John A. (See McIntyre, James, assignor.)						
Stettheimer, Jacob. (See Leavitt, Frank M., assignor.)						
Stettheimer, Jacob, Jr. (See Haynes, Charles W., assignor.)						
Steuart, Andrew P., Westport, and H. M. Welliver, Lock Haven, Pa.; said Welliver assignor to said Steuart. Carpet-stretcher	375,019	Dec. 20	1242	324	41	1303

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Steuart, Arthur. (See Yeakle and Steuart.)						
Steudtner, Carl F. F. (See Gocht, Reinhold, assignor.)						
Steuer, Otto, assignor to J. R. Palen, Dresden, Saxony, Germany. Reproducing writings, &c.	356,296	Jan. 18	1430	-----	38	289
Steussy, David. (See Kundert, Edward T., assignor.)						
Stevens, A. B. (See Canfield, Stephen P., assignor.)						
Stevens, Abram W., Auburn, N. Y. Harrow	375,510	Dec. 27	1899	497	41	1440
Stevens, Alfred L., Darien, Conn. Horseshoe	374,911	Dec. 13	1071	280	41	1264
Stevens, Amory, <i>et al.</i> (See Sperry, James A., assignor.)						
Stevens, Amos, assignor to W. D. Wooldredge, Philadelphia, Pa. Screw-driver	371,225	Oct. 11	698	179	41	146
Stevens, Andrew J., Sacramento, Cal. Balanced slide-valve	357,424	Feb. 8	977	257	38	612
Stevens, Arthur L. (See Wooldredge, William D., assignor.)						
Stevens, Arthur L., Philadelphia, Pa. Molding-machine	360,119	Mar. 29	2578	654	38	1413
Stevens, Arthur L., assignor to W. D. Wooldredge, Philadelphia, Pa. Screw-driver	371,226	Oct. 11	699	179	41	146
Stevens, Asher B., New Bridge, N. J., assignor to Heywood Bros. & Co., Gardner, Mass. Umbrella-support	358,497	Mar. 1	112	27	38	924
Stevens, Asher B., New Bridge, N. J., assignor, by mesne assignments, to Rocker Spring Company, Chicago, Ill. Spring for base-rocking chairs	369,133	Aug. 30	2579	685	40	979
Stevens, Asher B., New Bridge, N. J., assignor, by mesne assignments, to Rocker Spring Company, Chicago, Ill. Spring attachment for rocking-chairs	374,854	Dec. 13	974	254	41	1245
Stevens, Augustus P. (See Crandall, Jesse A., assignor.)						
Stevens, Benjamin A., Toledo, Ohio. Latch	357,242	Feb. 8	733	190	38	566
Stevens, Benjamin A., Toledo, Ohio. Refrigerator	369,212	Aug. 30	2674	711	40	998
Stevens, Charles E., Somerville, Mass. Mold for casting metallic articles	356,669	Jan. 25	1961	515	38	397
Stevens, Charles E., East Somerville, Mass. Metal mold for sash-weights	356,736	Jan. 25	2052	539	38	414
Stevens, George A., Hartsville, Mass. Sleigh-shoe	375,214	Dec. 20	1515	398	41	1357
Stevens, George F., and J. E. Smyth, Northwood, N. H. Last	365,154	June 21	1386	366	39	1361
Stevens, Grenville M., Portland, Me. Manufacturing jacketed cases	372,242	Oct. 25	2185	561	41	450
Stevens, James S., assignor to Eureka Manufacturing Company, Cleveland, Ohio. Machine for washing dishes	361,729	Apr. 26	1917	497	39	381
Stevens, John, Neenah, Wis. Roller-mill	370,097	Sept. 20	1132	300	40	1262
Stevens, John, Port Byron, assignor to Syracuse Fibre Ware Company, Syracuse, N. Y. Machine for forming vessels from paper-pulp	365,625	Jan. 4	428	118	38	85
Stevens, John C., assignor to Pond, West & Simons, Port Chester, N. Y. Combined hand and engine power rock-drilling machine	359,578	Mar. 15	1687	431	38	1229
Stevens, John C., assignor to N. C. Pond, M. O. West, and E. Simons, Port Chester, N. Y. Button-machine	365,550	June 28	1978	515	39	1488
Stevens, John C., assignor to N. C. Pond, M. O. West, and E. Simons, Port Chester, N. Y. Rock-drilling machine	371,800	Oct. 18	1516	391	41	316
Stevens, John H., Cambridgeport, Mass. Urinal	359,334	Mar. 15	1302	338	38	1158
Stevens, John M. (See Weirbach, Henry T., assignor.)						
Stevens, Joseph, Trenton, Mich. Corn-planter	364,317	June 7	151	42	39	1117
Stevens, Le Roy W., Auburn, N. Y. Harrow	371,902	Oct. 18	1672	432	41	346
Stevens, Le Roy W., Auburn, N. Y. Spring-toothed harrow	371,903	Oct. 18	1673	432	41	346
Stevens, Le Roy W., Auburn, N. Y. Harrow	374,159	Nov. 29	2805	753	41	1034
Stevens, Le Roy W., Auburn, N. Y. Harrow	375,511	Dec. 27	1901	497	41	1440
Stevens, Levi, Boston, Mass. Distilling petroleum	363,432	May 24	1919	504	39	857
Stevens, Monroe, Shellman, Ga. Water-elevator	375,215	Dec. 20	1516	398	41	1358
Stevens, Samuel S. (See Glasgow and Stevens.)						
Stevens, Samuel S., North Hoosick, N. Y. Manufacture of paper	366,700	July 19	1309	{ 351 352 }	{ 40 }	265
Stevens, Sidney M., assignor to himself, M. D. Shipman, C. E. and S. E. Bradt, De Kalb, Ill. Support for door-hanger tracks	357,969	Feb. 15	1779	467	38	771
Stevens, Susan E., Boston, Mass. Combined suspenders and stocking-supporter	375,216	Dec. 20	1517	398	41	1358
Stevens, Sylvanus H., Chicago, Ill. Weighing-scale for ascertaining the percentage of impurity in grain, &c.	359,187	Mar. 8	1090	284	38	1112
Stevens, Theodore E., Syracuse, N. Y. Buggy-boot	366,270	July 12	714	194	40	143
Stevens, Theodore E., Syracuse, N. Y. Buggy-boot	369,567	Sept. 6	351	97	40	1101
Stevens, William C., <i>et al.</i> (See Strickler, Peter G., assignor.)						
Stevens, William H. (See Furbish, Zachary T., assignor.)						
Stevens, William J., New York, N. Y., assignor of one-half to D. A. Hopkins, Park Ridge, N. J. Balance slide-valve	356,173	Jan. 18	1262	333	38	257
Stevens, William L., Dorchester, Mass. Regulator for electro-magnetic motors	355,729	Jan. 11	603	157	38	128
Stevenson, Charles P. (See Stanley, James D., assignor.)						
Stevenson, Fred G., <i>et al.</i> (See Osborne, Charles H., assignor.)						
Stevenson, George, Zionsville, Ind. Broadcast seed-sower	356,698	Jan. 25	1996	524	38	404
Stevenson, George B., Upper Sandusky, Ohio. Slide-valve	369,134	Aug. 30	2581	686	40	979
Stevenson, James H., Chicago, Ill. Heading for window-shades	359,905	Mar. 22	2211	556	38	1339
Stevenson, Pillans S. (See Gillespie, Walter, assignor.)						
Stevenson, Samuel M., Bastrop, La. Dirt-cart	366,043	July 5	407	{ 110 111 }	{ 40 }	77
Stevenson, Samuel M., Bastrop, La. Trace-fastener	373,251	Nov. 15	1470	388	41	759
Stevenson, Thomas F. (See Bassett and Stevenson.)						
Stevenson, William C., <i>et al.</i> (See Hall, Frank C., assignor.)						
Stevenson, William G., Morenci, Mich. Harp	356,803	Feb. 1	84	24	38	439
Stevenson, William H. H., assignor to Baltimore Can Manufacturing Company, Baltimore, Md. Can-soldering machine	366,271	July 12	716	{ 194 195 }	{ 40 }	143
Stever, James J., Owosso, Mich. Car-axle box	375,217	Dec. 20	1518	399	41	1358
Stever, James J., Owosso, Mich. Platform-step for railway-cars	375,218	Dec. 20	1519	399	41	1358
Stevens, Parker, Aspen, Colo. Device for operating the doors of mine-shafts	373,105	Nov. 15	1240	330	41	718
Stevens, William J., and A. J. Hill, Mechanicsville, N. Y. Screw-propeller	370,567	Sept. 27	1822	485	40	1398
Steward, Aurelius, assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Mechanism for imparting variable motion to sewing-machine loop-takers	369,619	Sept. 6	426	119	40	1116
Steward, John F. (See Kennedy and Steward.)						
Steward, John F., Chicago, Ill. Harvester	360,120	Mar. 29	2580	655	38	1414
Steward, John F., Chicago, Ill. Harvester-gearing	361,465	Apr. 19	1535	{ 397 398 }	{ 39 }	302
Steward, John F., Chicago, Ill. Loose-grain receptacle for self-binders	364,380	June 7	235	67	39	1133
Steward, John F., Chicago, Ill. Grain-binder	364,972	June 14	1108	{ 288 289 }	{ 39 }	1302
Steward, John F., Chicago, Ill. Grain-binder	366,272	July 12	717	195	40	143
Steward, John F., Chicago, Ill. Sheaf-carrier	368,981	Aug. 30	2369	629	40	938
Steward, John F., Chicago, Ill. Molding-room	370,901	Oct. 4	236	60	41	46
Steward, John F., Chicago, Ill., and R. H. Dixon, Canton, Ohio; said Dixon assignor to W. Deering, Chicago, Ill. Harvester-backboard	360,786	Apr. 5	549	143	39	103

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Steward, John F. and H. N., and B. A. Kennedy, Chicago, Ill. Grain-harvester	372,340	Nov. 1	83	24, 25	41	487
Steward, Joseph M., Boston, assignor to Clinton Wire Cloth Company, Clinton, Mass. Lobster-trap	363,858	May 31	2546	662	39	984
Stewart, A. Judson, Chillicothe, Mo. Buckle	360,827	Apr. 5	608	159	39	114
Stewart, A. Judson, Chillicothe, Mo. Whiffletree-hook	366,896	July 19	1573	421	40	314
Stewart, Alexander, Philadelphia, Pa. Lamp	358,230	Feb. 22	2155	568	38	845
Stewart, Archibald, Keota, Iowa. Ditching-machine	363,560	May 24	2116	549	39	896
Stewart, Edward L., Bordentown, N. J. Feed-water heater	372,499	Nov. 1	313	86	41	530
Stewart, Enos W., Kalamazoo, Mich. Machine for forming vehicle-seat bars	373,698	Nov. 22	2150	{ 575 576 }	{ 41 39 }	{ 900 509 }
Stewart, Enos W., assignor to T. W. Stewart, Kalamazoo, Mich. Punching-machine	362,190	May 3	181	55	39	509
Stewart, George W., New York, assignor to A. E. Fuechsel, Mount Vernon, N. Y. Garment-supporter	356,174	Jan. 18	1263	333	38	257
Stewart, George W., assignor of three-fourths to J. Swann and B. F. Mosher, New York, N. Y. Gripper for cable railways	364,381	June	237	67	39	1133
Stewart, Henry C. (See Havlin, John L., assignor.)						
Stewart, Homer, Beaver Falls, Pa., assignor of three-fourths to W. M. Lawrence, Washington, D. C., and S. M. Lawrence, Beaver Falls, Pa.; said S. M. Lawrence administrator of said W. M. Lawrence, deceased. Stop-off valve for gas	363,696	May 24	2315	601	39	934
Stewart, Homer, Beaver Falls, Pa., assignor of three-fourths to M. E. Frederick, East Liverpool, and S. M. Lawrence, Salem, Ohio. Combined supply and regulating valve for gas ..	366,351	July 12	824	221	40	162
Stewart, J. H., <i>et al.</i> (See Floyd, John, assignor.)						
Stewart, James, Pittsburg, Pa. Shoulder-brace and skirt-supporter	373,699	Nov. 22	2151	576	41	901
Stewart, James C., Lebanon, Ind. School-building	358,083	Feb. 22	1943	{ 512 513 }	{ 38 38 }	{ 806 806 }
Stewart, James D. (See Wygant, John C., assignor.)						
Stewart, James E. (See Stewart, Thomas S. and J. E.)						
Stewart, Jennie M., Cedar Rapids, Iowa, assignor of one-half to H. F. Thebault, Cook County, Ill. Pot-cover	355,796	Jan. 11	701	183	38	145
Stewart, John, New York, N. Y. Belt shifter and brake	374,638	Dec. 13	677	178	41	1187
Stewart, John A., <i>et al.</i> (See Byam, Eber C., assignor.)						
Stewart, Joseph, assignor of one-third to J. Israel, Liberty, Ind. Hand-rake	368,559	Aug. 16	1770	470	40	805
Stewart, Lee, Waldo, Ark. Block for log-wagons	369,661	Sept. 6	486	134	40	1127
Stewart, Robert, Louisville, Ky. Boiler-furnace	364,382	June 7	239	67	39	1134
Stewart, Robert F. (See Armstrong, Albert, assignor.)						
Stewart, S. Wightman, <i>et al.</i> (See Hambujer, Ephraim, assignor.)						
Stewart, Samuel S., Philadelphia, Pa. Banjo	355,896	Jan. 11	859	224	38	174
Stewart, Shellman B., Montclair, N. J. Railway signaling	361,730	Apr. 26	1919	498	39	381
Stewart, Shellman B., Montclair, N. J. Electric rope-coupler	361,731	Apr. 26	1920	498	39	382
Stewart, Spencer A., Cicero, N. Y. Hay-rack	364,869	June 14	962	253	39	1275
Stewart, Thomas S. and J. E., Saltsburg, Pa. Device for watering coke in ovens	373,417	Nov. 15	1726	456	41	806
Stewart, Thomas W. (See Stewart, Enos W., assignor.)						
Stewart, Thomas W., Kalamazoo, Mich. Metal-bending machine	375,512	Dec. 27	1903	498	41	1441
Stewart, Uriah T., Saulsbury, Tenn. Cotton-press	370,288	Sept. 20	1403	377	40	1314
Stewart, Willard D., Merrill, Wis. Thill-coupling	362,403	May 3	459	127	39	564
Stewart, William D., Brooklyn, N. Y. Bath-tub	370,098	Sept. 20	1134	300	40	1263
Stewart, William H., Brooklyn, N. Y. Roofing	358,994	Mar. 8	853	216	38	1066
Stewart, William T., assignor of one-half to W. H. Denniston, Pittsburg, Pa. Apparatus for generating an illuminating and heating gas	362,467	May 3	559	155	39	582
Stickel, Frederick, New York, N. Y. Cut-stone flower	357,425	Feb. 8	978	257	38	612
Stickle, James, Denver, Colo. Self-adjusting head-gate	367,459	Aug. 2	138	40	40	478
Stickney, Allison M., Medford, assignor of two-thirds to H. R. Thompson, Newton, Mass. Book-sewing machine	365,027	June 14	1185	{ 311 312 313 314 }	{ 39 39 39 39 }	{ 1315 1315 1315 1315 }
Stickney, Henry R. (See Thomas, Way, and Stickney.)						
Stickney, Henry R., 2d, Portland, Me. Machine for feeding cans	358,498	Mar. 1	113	27	38	924
Stickney, Henry R., 2d, Portland, Me. Car-starter	364,061	May 31	2834	735	39	1039
Stickney, Henry R., 2d, Portland, Me. Can-filling machine	372,876	Nov. 8	903	{ 243 244 }	{ 41 41 }	{ 645 645 }
Stickney, Henry R., 2d, assignor of one-half to R. A. Conant, Portland, Me. Machine for filling cans	360,541	Apr. 5	214	53, 54	39	42
Stiefel, Julius, Baltimore, Md. Bifurcated garment	375,219	Dec. 20	1520	399	41	1358
Stiehl, Theodor. (See Fischer and Stiehl.)						
Stiely, Jared, Lebanon, Pa. Plaiting-machine	362,551	May 10	677	190	39	608
Stienbarger, Sheldon A. (See Kelly and Stienbarger.)						
Stigenwalt, William H., Iola, Kans., assignor to W. S. Davis, Blandinsville, Ill. Washing-machine	373,861	Nov. 29	2382	641	41	952
Stigler, Sylvester, Claysville, Ohio. Fruit-drier	361,905	Apr. 26	2177	564	39	429
Stiles, Edmund P., Austin, Tex. Dental chair	361,906	Apr. 26	2178	565	39	429
Stiles, Frederic. (See Cooke, David B., assignor.)						
Stiles, George, <i>et al.</i> (See Doty, William B., assignor.)						
Stiles, Norman C., Middletown, Conn. Power-press	364,142	May 31	2954	767	39	1060
Stiles, Norman C., Middletown, Conn. Tool-grinder	366,897	July 19	1573	421	40	314
Stiles, Norman C., Middletown, Conn. Press for cutting and stamping articles of sheet metal	369,970	Sept. 13	933	{ 248 249 }	{ 40 40 }	{ 1219 1219 }
Stiles & Parker Press Company. (See Homan, William C., assignor.)						
Stiles & Parker Press Company. (See Jordan, Edmund, assignor.)						
Stiles, Samuel P., Bardstown, Ky. Fence	369,751	Sept. 13	596	162	40	1156
Still, Henry. (See Jacobs, John W., assignor.)						
Still, John W., Oakland, assignor of one-half to A. R. Simmons and W. B. Rowe, San Francisco, Cal. Liniment	372,825	Nov. 8	825	.....	41	632
Stillman, Herbert L., Allenton, R. I. Railway	370,164	Sept. 20	1241	330	40	1283
Stillman, Ira B., Wellsville, N. Y. Washing-machine	372,877	Nov. 8	906	244	41	646
Stillman, Orsemus G., Hornellsville, N. Y. Carriage-top support	356,899	Feb. 1	222	62	38	462
Stillman, Willett D., Madison, Wis. Umbrella-support	369,971	Sept. 13	944	249	40	1220
Stillson, Daniel C., Somerville, and E. Prescott, Arlington, Mass.; said Prescott assignor to said Stillson. Automatic fire-extinguisher	357,692	Feb. 15	1388	366	38	698
Stillson, Lorenzo D., Baraboo, Wis. Sleigh-knee	371,153	Oct. 4	597	153	41	118
Stilwell, Charles, Morristown, N. J. Thill-coupling	375,220	Dec. 20	1521	400	41	1359
Stilwell, Charles B., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine	370,099	Sept. 20	1135	{ 301 302 }	{ 40 40 }	{ 1263 1263 }
Stilwell, Randolph W., New York, N. Y. Corset-fastening	369,972	Sept. 13	945	250	40	1220
Stilwell, William T. (See Benson and Stilwell.)						
Stimpson, Edwin B., Jr., Brooklyn, N. Y. Perforating-machine	370,100	Sept. 20	1141	{ 302 303 }	{ 40 40 }	{ 1264 1264 }

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Stimpson, Edwin B., Jr., Brooklyn, N. Y. Perforating-machine	370,985	Oct. 4	374	93, 94	41	74
Stimpson, Edwin B., Jr., Brooklyn, N. Y. Perforating-machine	370,986	Oct. 4	378	94	41	75
Stimpson, Edwin B., Jr., Brooklyn, N. Y. Eyelet-setting machine	372,826	Nov. 8	825	220	41	632
Stimpson, Edwin B., Brooklyn, N. Y. Machine for ornamenting leather	375,105	Dec. 20	1369	356	41	1327
Stimson, Alfred T., Eureka, Cal. Machine for jointing and shaping shingles	368,117	Aug. 9	1124	299	40	673
Stinard, Stephen R., Pompton, N. J. Car-axle box	375,221	Dec. 20	1522	400	41	1359
Stinde, Herman F., assignor to M. E. Stinde, Steeleville, Ill. Fire-tongs	373,418	Nov. 15	1728	456	41	806
Stinde, Mary E. (See Stinde, Herman F., assignor.)						
Stine, Samuel B., Osceola Mills, Pa. Mining-machine	356,699	Jan. 25	1998	525	38	404
Stineruck, William A. (See McNeal and Stineruck.)						
Stinson, David N., West Point, Miss. Grave vault	361,466	Apr. 19	1537	398	39	302
Stinson, Hugh B., Hancock, Minn. Welding compound	366,273	July 12	719	.....	40	143
Stipes, John W. (See Burr and Stipes.)						
Stirewalt, Valentine, Davidson College, N. C. Kneading-machine	358,758	Mar. 1	494	121	38	995
Stirrat, Robert G. (See Stirrat, Robert J., assignor.)						
Stirrat, Robert J., assignor of one-half to R. G. Stirrat, St. Louis, Mo. Water-heating device for stoves and ranges	357,874	Feb. 15	1649	429	38	747
Stivers, Henry. (See Shotts, Orren A., assignor.)						
Stivers, Rufus M., New York, N. Y. Fender for vehicles	359,476	Mar. 15	1518	{ 388 } { 389 }	{ 38 }	1198
Stiveson, Anthony O., Pomeroy, Ohio. Wagon-jack	373,700	Nov. 22	2152	576	41	901
Stobaugh, John D., Grayson, Mo. Reciprocating churn	364,383	June 7	240	68	39	1134
Stock, Charles F., deceased, (N. G. Moore, administrator,) assignor of one-half to I. Walker Hardware Company, Peoria, Ill. Ball-trap. (Reissue)	10,867	Sept. 13	1043	275	40	1238
Stockdale, Alexander, Walcott, Iowa. Carpet-stretcher	356,804	Feb. 1	85	24	38	439
Stockdale, Alexander, Wolcott, Iowa. Carpet-stretcher	362,122	May 3	97	30	39	492
Stockdale, Alexander, Wolcott, Iowa. Carpet-stretcher	368,250	Aug. 16	1336	352	40	720
Stockdale, Alexander, Wolcott, Iowa. Car-mover	369,413	Sept. 6	141	41	40	1059
Stockdale, Alexander, Wolcott, Iowa. Carpet-stretcher	370,902	Oct. 4	239	61	41	47
Stockham, Henry C., and J. Adams, Germany, Ohio. Fire-escape	375,393	Dec. 27	1748	459	41	1410
Stockheim, Heinrich, Mannheim, Germany. Filtering	363,019	May 17	1356	358	39	740
Stockheim, Heinrich, Mannheim, Germany, assignor to S. and F. Uhlmann, New York, N. Y. Filter. (Reissue)	10,891	Dec. 27	2211	575	41	1498
Stockman, Henry. (See Blumrich, Max, assignor.)						
Stockman, Henry, Philadelphia, Pa. Last	374,504	Dec. 6	476	{ 123 } { 124 }	{ 41 }	1137
Stockmann, Christopher, Brooklyn, N. Y. Holder for pens, pencils, &c	362,404	May 3	460	127	39	565
Stocks, John. (See Lord and Stocks.)						
Stockwell, Emory, assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock	363,920	May 31	2628	682	39	998
Stockwell, Emory and H. C., assignors to Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock	363,918	May 31	2622	681	39	997
Stockwell, Emory and H. C., assignors to Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock	363,919	May 31	2625	{ 681 } { 682 }	{ 39 }	998
Stockwell, Herbert C. (See Stockwell, Emory and H. C.)						
Stockwell, John O., Burlington, Kans. Prevention of induction in electric circuits	355,420	Jan. 4	168	44	38	34
Stockwell, John O., Burlington, Kans. Telephone system	357,134	Feb. 1	582	149	38	528
Stockwell, Millard E., Grand Ledge, assignor of one-half to S. E. Jarvis, Lansing, Mich. Lathe for turning round rods	358,759	Mar. 1	495	121	38	996
Stoddard, Alfred, Newark, N. J. Fire-escape	364,781	June 14	831	219	39	1250
Stoddard, Calvin T. (See Little and Stoddard.)						
Stoddard Crimping Machine Company. (See Fifield, John W. D., assignor.)						
Stoddard, E. Fowler. (See Nickum, George S., assignor.)						
Stoddard, E. Fowler, deceased; H. C. Lowe administrator and assignor to Stoddard Manufacturing Company, Dayton, Ohio. Harrow	369,300	Aug. 30	2797	{ 745 } { 746 } { 747 }	{ 40 }	1022
Stoddard, E. Fowler, assignor to Farmers Friend Manufacturing Company, Dayton, Ohio. Baling-press	369,662	Sept. 6	487	134	40	1127
Stoddard, Elliott J., assignor of one-half to E. S. Grece, Detroit, Mich. Transmitting rotary motion	363,859	May 31	2547	662	39	984
Stoddard, Henry M., assignor of one-half to Wall & Pursel, Denver, Colo. Running-gear for wagons	361,096	Apr. 12	1011	255	39	193
Stoddard, Henry M., assignor of one-half to Wall & Pursel, Denver, Colo. Spring-wagon	374,278	Dec. 6	144	38	41	1075
Stoddard, Isaac H., New Haven, Conn., assignor to Eastman Dry Plate and Film Company, Rochester, N. Y. Photographic web-holder	370,216	Sept. 20	1306	348	40	1295
Stoddard, Joshua C., assignor to O. W. Bullock, Springfield, Mass. Compound tool	363,561	May 24	2118	549	39	897
Stoddard Manufacturing Company. (See Stoddard, E. Fowler, assignor.)						
Stoddard, Nolton F., assignor to Markle Engineering Company, Detroit, Mich. Electrical cut-out	369,889	Sept. 13	810	215	40	1197
Stoddard, Oscar, Detroit, Mich. Key-hole guard	355,421	Jan. 4	169	44	38	34
Stoddard, Oscar, Detroit, Mich. Sheet-music cabinet	372,341	Nov. 1	85	25	41	487
Stoddard, Oscar, assignor to Excelsior Novelty Company, Detroit, Mich. Button-setting machine	372,773	Nov. 8	737	200	41	617
Stoddard, Samuel G., assignor to Bridgeport Brass Company, Bridgeport, Conn. Lamp-burner	356,968	Feb. 1	315	85	38	481
Stoddard, Harry, <i>et al.</i> (See Anson, Gustin M., assignor.)						
Stoeppler, Zacharias. (See Wiesner, Julius, assignor.)						
Stofer, William A., <i>et al.</i> (See Rigby, Clark F., assignor.)						
Stoffert, Rudolph A., and T. Dykes, Glasgow, county of Lanark, Scotland. Girder	361,097	Apr. 12	1012	255	39	194
Stoke, Samuel F. (See Monroe and Stoke.)						
Stolle, Carl M., Bellevue, Idaho Ter. Amalgamator	369,135	Aug. 30	2582	686	40	979
Stone, Adam, <i>et al.</i> (See Megown, Thomas J., assignor.)						
Stone, Andrew K., Boston, Mass. Dredger	360,927	Apr. 12	751	{ 197 } { 198 }	{ 39 }	146
Stone, Andrew K., Boston, Mass. Dredge	371,801	Oct. 18	1517	391	41	316
Stone, Charles M., assignor of one-half to B. Blevins, Belton, Tex. Wash-board	359,644	Mar. 22	1802	458	38	1266
Stone, David, New York, N. Y. Cuff-fastener	364,143	May 31	2957	767	39	1061
Stone, David, New York, N. Y. Collar-stud and necktie-holder	365,207	June 21	1452	383	39	1375
Stone, Dudley G., Negaunee, Mich. Car-coupling	356,969	Feb. 1	316	85, 86	38	481
Stone, Elihu P., Lincoln, Kans. Harrow	368,118	Aug. 9	1126	299	40	673
Stone, Florentine L., assignor to J. A. Nelson, Brockton, Mass. Paper-box machine	365,879	July 5	171	44	40	34
Stone, Frank P., Chicago, Ill. Weather-strip for sashes or sliding doors	366,524	July 12	1050	285	40	208
Stone, Frank W., assignor to G. Austin, Lynn, Mass. Pegging-jack	372,278	Oct. 25	2237	573	41	460
Stone, Frank W., assignor to G. Austin, Lynn, Mass. Jack for boots or shoes	372,279	Oct. 25	2237	574	41	460

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Stone, George H., and A. Cote, Bristol, Conn. Latch	372,878	Nov. 8	906	244	41	646
Stone, Heman W., Jr., Morris, Minn. Music-leaf turner	370,165	Sept. 20	1242	330	40	1283
Stone, Henrie D. (See Clark and Stone.)						
Stone, Henrie D. (See Weeks and Stone.)						
Stone, Henry G., Walker, Mich. Animal-trap	370,101	Sept. 20	1144	303	40	1264
Stone, James. (See Gardner and Lovedahl, assignors.)						
Stone, James, Aurora, Ill. Making button-hole strips	370,903	Oct. 4	240	61	41	47
Stone, James, Aurora, Ill. Corset-trimming	375,106	Dec. 20	1370	357	41	1327
Stone, James B., Worcester, Mass. Wire-rope machine	359,409	Mar. 15	1420	{ 363 364 }	{ 38 38 }	1179
Stone, James B., Worcester, Mass. Manufacturing wire rope	359,410	Mar. 15	1422	364	38	1180
Stone, John, Plattsburg, Mo. End-gate for wagons	372,991	Nov. 8	1063	284	41	675
Stone, John B., and F. W. Hindson, Birmingham, county of Warwick, England. Sand-blast apparatus	370,987	Oct. 4	380	94, 95	41	75
Stone, John H., Hamilton, Ontario, Canada. Tubular lantern	375,020	Dec. 20	1242	{ 324 325 }	{ 41 41 }	1304
Stone, Joseph, <i>et al.</i> (See Waite, Charles N., assignor.)						
Stone, Joseph, Lawrence, Mass. Machine for spooling yarn from the chain	365,949	July 5	279	73	40	53
Stone, Livingston. (See Gibson and Stone.)						
Stone, Marvin C., Washington, D. C. Umbrella	358,084	Feb. 22	1945	513	38	807
Stone, Marvin C., Washington, D. C. Coloring glazed earthenware	362,123	May 3	99	30	39	492
Stone, Marvin C., Washington, D. C. Making paper cones	371,988	Oct. 25	1790	{ 464 465 }	{ 41 41 }	379
Stone, Marvin C., Washington, D. C. Blank for paper tubes	371,989	Oct. 25	1793	465	41	379
Stone, Marvin C., Washington, D. C. Holder and gage for paper cones while waterproofing them	371,990	Oct. 25	1794	465	41	379
Stone, Perley A., trustee. (See Seward, Edgar P., assignor.)						
Stone, R. Arthur. (See Rix, Benjamin F., assignor.)						
Stone, Thomas H., Milwaukee, Wis. Car-axle bearing	358,499	Mar. 1	115	27	38	925
Stone, Thomas S. (See Hunter, Robert W., assignor.)						
Stone, William. (See Macdonald, David, assignor.)						
Stone, William E. (See Brannan and Stone.)						
Stonehill, Moses, and M. Kilsheimer, New York, N. Y. Making dress armpit-shields	359,038	Mar. 8	906	231	38	1076
Stonemetz, John H., Erie, Pa. Device for connecting printing-presses with folding-machines	355,352	Jan. 4	85	23	38	18
Stonemetz, John H., Erie, Pa. Tapeless sheet-conveyer mechanism for paper-folding machines	355,353	Jan. 4	87	23	38	18
Stonemetz, John H., Erie, Pa. Carrier-tape mechanism for paper-folding machines	355,354	Jan. 4	88	24	38	19
Stonemetz, John H., Erie, Pa. Double-feed mechanism for paper-folding machines	355,422	Jan. 4	170	44, 45	38	34
Stoner, Abraham, S. J. Hatcher, and W. H. Carroll, Stony Point, La., assignors to themselves. Fender for plows	355,482	Jan. 4	248	65	38	50
Stoner, Augustus, New York, N. Y. Rotary line-measure	361,791	Apr. 26	2010	523	39	398
Stoner, Augustus, New York, N. Y. Permutation-lock	370,568	Sept. 27	1823	{ 485 486 }	{ 40 40 }	1398
Stoner, Benjamin, assignor to himself and D. Rylands, Stairfoot, near Barnsley, county of York, England. Tool for forming grooves in bottle-mouths	369,890	Sept. 13	812	216	40	1197
Stoner, Charles, and S. B. Welch, Montpelier, Ohio. Neck-yoke bar	370,662	Sept. 27	1967	521	40	1426
Stoner, David, White Pigeon, Mich. Pump	370,428	Sept. 27	1614	430	40	1361
Stonestreet, George D., Birmingham, Ala., assignor to R. Stonestreet and T. E. Enloe, Nashville, and W. Smith, Smith's Fork, Tenn. Ore-concentrator	365,279	June 21	1566	408	39	1395
Stonestreet, Reginald, <i>et al.</i> (See Stonestreet, George D., assignor.)						
Stonitsch, John, and W. F. Sweet, assignors to Electro Mechanical Manufacturing Company, Chicago, Ill. Device for displaying advertising-cards	356,805	Feb. 1	86	24	38	439
Stoodley, Robert, Galway, N. Y. Rein-supporter	362,552	May 10	679	190	39	608
Stopfer, Robert L., Philadelphia, Pa. Sash-holder	372,827	Nov. 8	827	221	41	632
Stopple, John J., Bellville, Tex. Baling-press	363,697	May 24	2317	601	39	934
Storch, Philip H., Philadelphia, Pa. Combined water-cooler and refrigerator	355,731	Jan. 11	605	158	38	128
Storer, George L. (See Marsh, Parker C., assignor.)						
Storer, Maria L., (formerly Maria L. Nichols,) Cincinnati, Ohio. Manufacture of pottery	361,231	Apr. 12	1224	.....	39	232
Storey, Albert H., London, England. Combined pick and shovel	365,208	June 21	1453	383	39	1376
Storey, Herbert L. and I. H., Lancaster, county of Lancaster, England. Manufacture of oil-cloth	369,414	Sept. 6	142	.....	40	1059
Storey, Isaac H. (See Storey, Herbert L. and I. H.)						
Storie, James D., Oshawa, Ontario, Canada. Machine for sorting and finishing chain-links	369,620	Sept. 6	428	120	40	1116
Stork, Frederick, Kewaskum, Wis. Screen	361,333	Apr. 19	1354	348	39	268
Storm, Adam D. (See Wyker and Storm.)						
Storm, Edward, assignor to E. Storm Spring Company, Poughkeepsie, N. Y. Nail-extractor	374,761	Dec. 13	844	221	41	1221
Storm Spring Company, Edward. (See Storm, Edward, assignor.)						
Storror, Robert. (See Spence and Storror.)						
Storrs, Charles F. (See Rorick and Storrs.)						
Storrs, Joseph W., New London, Conn. Rail-joint	359,521	Mar. 15	1594	408	38	1212
Storrs, Joseph W., New London, Conn. Railway-crossing	361,907	Apr. 26	2181	565	39	429
Stortz, John, deceased, Philadelphia, Pa.; J. T. Stortz and H. Schmidt, administrators. Combined shears and punching-machine	362,468	May 3	560	{ 155 156 }	{ 39 39 }	582
Stortz, John T., <i>et al.</i> , administrators. (See Stortz, John.)						
Story, A. G. (See Weaver, William, assignor.)						
Story, Albert G. (See Candee, Charles E., assignor.)						
Story, Ephraim J., Washington, D. C. Fire-chamber	372,774	Nov. 8	738	200	41	617
Story, George L., Blairstown, Iowa. Doubletree and singletree	371,481	Oct. 11	1048	273	41	213
Story, Herbert, Arlington, N. J. Cue-tip	374,327	Dec. 6	225	60	41	1088
Story, John, assignor of one-half to S. S. Smith, Castle Shannon, Pa. Connection of pipes for conducting gas or fluids	364,449	June 7	343	94	39	1154
Stotsenburg, John H. (See Davis, Greer W., assignor.)						
Stott, James. (See Wilkinson, William N., assignor.)						
Stott, James, London, England. Stop-valve	361,908	Apr. 26	2183	566	39	430
Stott, John S., Reading, Pa. Automatic nail-plate feeder	358,231	Feb. 22	2156	569	38	845
Stouffer, Luther, St. Joseph, Mo. Vehicle-gear	361,790	Apr. 26	2009	523	39	397
Stout, George M., Philadelphia, Pa. Halter-snap	357,944	Feb. 15	1742	455	38	764
Stoutemyer, John B. (See Waters and Stoutemyer.)						
Stovall, John D., Terrell, Tex. Car-brake	370,500	Sept. 27	1726	458	40	1381
Stovall, John D., and W. C. Whittington, Caddo Mills, Tex. Car-coupling	370,499	Sept. 27	1725	458	40	1381
Stover, Cochran C., Bradford, Pa. Wheel-cultivator	356,560	Jan. 25	1812	474	38	368
Stover, Cochran C., Bradford, Pa. Elevator for sucker-rods	359,291	Mar. 15	1244	323	38	1147

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Stover, Cochran C., Bradford, Pa. Potato-digger	365,880	July 5	174	44, 45	40	35
Stover, Daniel C., Freeport, Ill. Floor-covering	361,194	Apr. 12	1166	295	39	221
Stover, Daniel C., Freeport, Ill. Wire fabric	361,334	Apr. 19	1355	349	39	268
Stover, Daniel C., assignor to Stover Manufacturing Company, Freeport, Ill. Nail-machine	359,522	Mar. 15	1596	409	38	1212
Stover Manufacturing Company. (See Stover, Daniel C., assignor.)						
Stover Manufacturing Company. (See Ziegler, Oscar J., assignor.)						
Stow, Enos E., assignor to Peck, Stow & Wilcox Company, Plantsville, Conn. Tea-pot handle	358,580	Mar. 1	251	59	38	950
Stowe, Julius H., Martinsburg, Mo. Earth-auger	368,172	Aug. 9	1202	321	40	687
Stowe, Lorenzo, Rome, Tenn. Clevis	367,074	July 26	1807	488	40	366
Stowe, Oren. <i>et al.</i> (See Skinner, John, assignor.)						
Stowell, Luther B., Grand Rapids, Wis. Buckle	357,243	Feb. 8	734	190	38	566
Straat, Ernest A., Jersey City, N. J. Ear-ring	360,395	Mar. 29	2980	755	38	1487
Strachan, Joseph, Brooklyn, N. Y. Folding rack for solar-printing frames	366,134	July 5	523	141	40	99
Strachan, Joseph, Brooklyn, N. Y. Beam-compass	374,639	Dec. 13	678	179	41	1188
Strachan, Joseph, Brooklyn, N. Y. Hinge	375,394	Dec. 27	1749	459	41	1411
Straight, Clarence H., and A. J. Jameson, assignors of one-half to D. A. Garver, Bryan, Ohio. Road-cart	360,180	Mar. 29	2675	675	38	1431
Straight, Ernest V., Richland Centre, Wis. Vehicle axle and bearing	371,991	Oct. 25	1796	466	41	380
Straight, George W. (See Odell, Thomas L., assignor.)						
Straight, George W. (See Van Osdel, Charles R., assignor.)						
Strain, David. (See Simpson and Strain.)						
Strait, Celestia L. (See Strait, William, assignor.) (Reissue.)						
Strait, Hiram, Troy, N. Y. Potato-digger	361,335	Apr. 19	1356	349	39	268
Strait, William, assignor to C. L. Strait, Elmira, N. Y. Plow. (Reissue)	10,839	May 31	3054	795	39	1079
Straker, Tooke, Boonton, N. J. Cuspidor for railway-cars	362,907	May 10	1196	320	39	703
Strang, Lew K., assignor to himself, S. Hutchings, and S. S. Sylvester, Gloucester, Mass. Curtain-fixture	364,608	June 7	564	152	39	1194
Strange, Edward M., Brooklyn, N. Y. Valve-gear for air-compressors	373,419	Nov. 15	1728	456	41	806
Strange, Emerson C., Taunton, Mass. Combined vise and drill	361,600	Apr. 19	1725	445	39	337
Strange, Emerson C., Taunton, Mass. Combined vise and drill	373,539	Nov. 22	1928	511	41	856
Strange, John F., New Bedford, Mass. Drill-chuck	362,043	Apr. 26	2379	620	39	464
Strange, John F., New Bedford, Mass. Bit	362,044	Apr. 26	2380	620	39	464
Stratford, Robert J., Jersey City, N. J. Artificial upholstering-hair and preparing the same	367,681	Aug. 2	489	.....	40	543
Stratton, Charles H., Salem, Ohio. Jump-seat for vehicles	358,794	Mar. 1	542	133	38	1005
Stratton, Charles M. (See Stratton, Edwin A. and C. M.)						
Stratton, E. Platt, College Point, N. Y. Steam-separator	375,463	Dec. 27	1842	482	41	1429
Stratton, Edwin A. and C. M., Greenfield, Mass. Spirit-level stock	370,826	Oct. 4	100	27	41	21
Stratton, John F., Brooklyn, N. Y. Accordion	364,609	June 7	566	152	39	1194
Stratton, John F., Brooklyn, N. Y. Mouth-harmonica	364,610	June 7	566	152	39	1194
Stratton, John F., Brooklyn, N. Y. Accordion	370,218	Sept. 20	1310	349	40	1296
Stratton, John F., New York, N. Y. Accordion	370,217	Sept. 20	1309	349	40	1296
Stratton, William J., Brooklyn, N. Y. Shade or globe holder	371,802	Oct. 18	1519	391	41	316
Straub, Carl, Syracuse, N. Y. Composition of building material for architectural purposes	361,601	Apr. 19	1726	.....	39	337
Straghn, Alanson W., Lincolnville, Ind. Automatic corn-dropper	368,791	Aug. 23	2095	555	40	875
Straigh, Jacob J. (See Potter, Jonas, assignor.)						
Street, Willoughby W., Springfield, Mass. Feed mechanism for arc lights	369,568	Sept. 6	353	98	40	1101
Streeter, Augustus W., Littleton, N. H. Cattle-stanchion	373,252	Nov. 15	1471	389	41	759
Streeter, Charles A., Franklin Falls, N. H. Journal-bearing	357,737	Feb. 15	1458	381	38	710
Streeter, H. A. (See Avery, William B., assignor.)						
Streeter, Herbert A. (See Amet, Edward H., assignor.)						
Streeter, Herbert A. (See Felton, Charles E., assignor.)						
Streeter, Herbert A. (See Thompson, Thomas K., assignor.)						
Streeter, Herbert A., Chicago, Ill. Shutter-fastener	371,637	Oct. 18	1268	329	41	265
Streeter, Nelson R., Groton, N. Y. Sad-iron	369,569	Sept. 6	354	98	40	1101
Streeter, Thomas E., Allegan, Mich. Bow-facing oar	359,230	Mar. 8	1162	302	38	1124
Streif, Henry, Rush Hill, assignor of one-half to O. Brinkneeyer, St. Louis, Mo. Whiffle-tree-coupling	364,189	May 31	3023	785	39	1074
Strickland, George A., Lakefield, Ontario, Canada. Sleigh	371,803	Oct. 18	1519	392	41	317
Strickland, James R., assignor of one-half to S. & W. H. Northrop, Wilmington, N. C. Circular sawing machine	367,864	Aug. 9	768	207	40	606
Strickland, Wilbur S. (See Girardey, George, assignor.)						
Strickler, Peter G., assignor to W. C. Stevens and A. Dickinson, Janesville, Wis. Hay-elevator	356,431	Jan. 18	1624	425	38	325
Strickler, Ulrich N., Middletown, Pa. Car-coupling	368,738	Aug. 23	2024	537	40	862
Stringer, Josiah S., Columbia, Ala. Coffee-pot	370,827	Oct. 4	101	27	41	21
Ströbeck, Frans T., Boston, Mass., assignor to Singer Manufacturing Company of New Jersey. Throat-plate for sewing-machines	356,510	Jan. 25	1740	453	38	355
Strobel, Oscar A., Cincinnati, Ohio. Curtain-pole	370,289	Sept. 20	1404	377	40	1314
Strobel, Victor O. (See Gordon, Strobel, and Beisel.)						
Strobel, Victor O., Philadelphia, Pa. Hot-blast stove	358,500	Mar. 1	116	28	38	925
Strobel, Victor O., assignor to Gordon, Strobel & Laureau, Philadelphia, Pa. Steel-plant	361,653	Apr. 19	1807	469	39	354
Stroh, Abraham, Freeland, Pa. Wash-board	371,525	Oct. 11	1113	290	41	226
Strohm, John. (See Wragg and Strohm.)						
Strohmer, Frank. (See Kiefer and Eby, assignors.)						
Strom, Axel A., Austin, Ill. Lifting-jack	359,106	Mar. 8	998	257	38	1094
Strom, Axel A., Austin, Ill. Lifting-jack	359,411	Mar. 15	1424	{ 364 365 627 628 }	{ 38 39 }	1180 954
Strom, Axel A., Austin, Ill. Switch-stand	363,772	May 24	2419	314	39	1316
Strom, Axel A., Austin, Ill. Die for forging cross-bars of railway-track chairs	365,028	June 14	1191	402	40	1333
Strom, Axel A., Austin, Ill. Semaphore	370,359	Sept. 20	1503	124	41	1137
Strom, Axel A., Austin, Ill. Railway-frog	374,505	Dec. 6	478	.....		
Strom, Axel A., Austin, assignor to Pettibone, Mulliken & Company, Chicago, Ill. Signal-lantern	363,771	May 24	2417	627	39	953
Stromgren, Charles J. and G. A., Norway, Kans. Hog-trough	360,829	Apr. 5	611	160	39	115
Stromgren, Gust. A. (See Stromgren, Charles J. and G. A.)						
Strong, George, South Rockwood, Mich. Adjustable carriage for saw-mills	358,899	Mar. 8	725	179	38	1042
Strong, George M., Boston, Mass. Uniting eyes to hame-irons	358,501	Mar. 1	118	28	38	925
Strong, Harriet W. R., Los Angeles, Cal. Dam and reservoir construction	374,378	Dec. 6	296	78	41	1103
Strong, Homer L., Schell City, Mo. Evaporator	361,379	Apr. 19	1423	368	39	280

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Strong, John W., assignor to Eaton, Cole & Burnham Company, Bridgeport, Conn. Mechanism for reversing rotation of reciprocating spindles	358,795	Mar. 1	545	134	38	1005
Strong, Nelson H. (See Everingham, Francis M., assignor.)						
Strong, William, assignor of one-half to C. Aneshaensel, Indianapolis, Ind. Street-washer.	364,737	June 14	741	197	39	1236
Strong, Woodbury & Co. (See Osden; Lozene M., assignor.)						
Stroud, Edward, New York, N. Y. Piano-action frame	363,488	May 24	2009	524	39	876
Stroud, William C., <i>et al.</i> (See Vauclain, Samuel M., assignor.)						
Stroup, Oliver M., Wellington, Ohio. Thill-coupling bolt	365,761	June 28	2293	596	39	1546
Strouse, Alexander S., Pottsville, Pa. Shirt	358,822	Mar. 1	588	146	38	1012
Strouse, Eli, Baltimore, Md. Safety-pocket	358,823	Mar. 1	589	146	38	1013
Strout, Joseph M., Portland, Me. Portable bed	363,773	May 24	2420	628	39	954
Strowger, Walter. (See Boomer and Strowger.)						
Strubing, Fredrick J., Buffalo, N. Y. Curtain-pole bracket	361,242	Apr. 12	1235	315	39	235
Struble, Jacob, Sioux City, Iowa. Bevel	361,243	Apr. 12	1236	315	39	235
Struck, Charles E., Newark, N. J. Thill-coupling	372,093	Oct. 25	1965	506	41	408
Struensee, Edward and O., Grand Rapids, Mich.; said O. Struensee assignor to said Edward Struensee. Apparel-collar	367,460	Aug. 2	140	40	40	478
Struensee, Otto. (See Struensee, Edward and O.)						
Strunk, Daniel, Minneapolis, Minn. Combined harvester and binder	370,360	Sept. 20	1505	{ 403 404 }	{ 40 38 }	1334
Strunz, Frederick B., Pittsburg, Pa. Apparatus for enriching illuminating-gas	355,626	Jan. 4	430	118	38	85
Stuart, Carl W., New York, N. Y. Button	360,976	Apr. 12	836	214	39	160
Stuart, Carl W., New York, N. Y. Glove-fastening	362,553	May 10	679	190	39	608
Stuart, George, assignor to W. G. Armstrong, Mitchell & Co., (limited,) Newcastle-upon-Tyne, England. Mechanism for adjusting and retaining ordnance-sights	371,286	Oct. 11	782	{ 200 201 }	{ 41 41 }	161
Stuart, George, assignor to W. G. Armstrong, Mitchell & Co., (limited,) Elswick Works, Newcastle-upon-Tyne, England. Electrical primer	372,046	Oct. 25	1889	{ 487 488 }	{ 41 39 }	395
Stuart, Ithamer W., Cedar City, Mo. Operating churn-dashers	356,737	Jan. 25	2053	539	38	414
Stuart, Robert J., New Hamburg, N. Y. Shaft-coupling	369,136	Aug. 30	2583	686	40	980
Stuart, Sinclair, Plainfield, N. J. Apparatus for separating oil and grease from steam	362,191	May 3	182	55	39	509
Stuart, William F., Wellington, Ohio. Thill-coupling	365,413	June 28	1765	458	39	1446
Stubbers, Joseph. (See English and Stubbers.)						
Stubbs, Abel F., Bangor, Me. Gaff-chip for vessels	366,274	July 12	720	196	40	143
Stubbs, Abel F., Bangor, Me. Calking the seams of center-board wells	370,663	Sept. 27	1969	521	40	1426
Stuck, Levi, Hart, Mich. Lowering mechanism for dental chairs	365,322	June 21	1624	424	39	1406
Stuck, Levi, Hart, Mich., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Foot-rest	360,487	Apr. 5	131	32	39	25
Stucker, Paul, and C. Neu, Brooklyn, N. Y. Heel for boots or shoes	355,483	Jan. 4	249	66	38	50
Stuckwisch, Rudolph, Cory, Ind. Combined harrow and cultivator	365,762	June 28	2294	{ 596 597 }	{ 39 39 }	1546
Studebaker, Eli B., Fredonia, Kans. Animal-power	370,569	Sept. 27	1825	486	40	1399
Stuebner, Henry, Philadelphia, Pa. Adjustable device for hanging picture-frames	368,251	Aug. 16	1337	352	40	720
Stull, John H., Okobojo, Dak. Ter. Railway-tie	372,879	Nov. 8	908	245	41	646
Stulz, Louis, and C. T. Wilson, Philadelphia, Pa. Suspension device for hammocks	364,190	May 31	3024	785	39	1074
Stumpf, Henry A., Indianapolis, Ind. Washing-machine	357,244	Feb. 8	734	191	38	566
Stumpf, Joseph, Austin, Tex. Wagon-body	372,775	Nov. 8	740	{ 200 201 }	{ 41 41 }	617
Stuntz, Channey R., Terrace Park, and A. A. Clerke, deceased, Cincinnati, Ohio; H. G. Clerke and W. E. Jones executors and assignors to said Stuntz. School-slate	358,581	Mar. 1	252	.....	38	950
Sturgeon, Carson J., assignor to Keystone Manufacturing Company, Miles Grove, Pa. Circular sawing machine	358,173	Feb. 22	2080	547	38	830
Sturges, Edmond M., West Stratford, Conn. Hame-fastener	366,275	July 12	721	196	40	144
Sturgis, Samuel, Manayunk, Pa. Brake for vehicles	355,355	Jan. 4	89	24	38	19
Sturtevant, E. L. (See Lister, John T., assignor.) (Reissue.)						
Sturtevant, Thomas L., Framingham, Mass. Fortification for coast and harbor defense	370,501	Sept. 27	1727	{ 458 459 }	{ 40 41 }	1381
Sturtevant, Thomas L., Framingham, and M. G. Davis, Somerville, Mass. Attrition-mill	372,436	Nov. 1	224	63	41	512
Stut, John C. H., San Francisco, Cal. Telephone-transmitter	355,952	Jan. 11	944	{ 246 247 248 }	{ 38 38 38 }	191
Stutsman, Henry, East Portland, Oreg. Water-heater	369,891	Sept. 13	813	216	40	1197
Stuver, Samuel L., Rosedale, Pa. Car-coupling	368,792	Aug. 23	2096	555	40	875
Subers, Lawrence A., Phoebus, Va. Pedal attachment for reed-organs	361,970	Apr. 26	2279	{ 592 593 }	{ 39 39 }	446
Sueme, Charles. (See Beehler, Charles W., assignor.)						
Sueur, Alfred. (See Gunz and Sueur.)						
Sueur, Alfred, assignor to M. J. Paillard & Co., New York, N. Y. Music-box	355,484	Jan. 4	250	66	38	51
Sueur, Alfred, assignor to M. J. Paillard & Co., New York, N. Y. Music-box	355,485	Jan. 4	251	66	38	51
Sueur, Alfred, assignor to M. J. Paillard & Co., New York, N. Y. Music-box	363,774	May 24	2421	628	39	954
Sueur, Edward, Chicago, Ill. Speed-regulator for music-boxes	360,396	Mar. 29	2980	756	38	1487
Sueur, Edward, assignor to Lyon & Healy, Chicago, Ill. Stop attachment for music-boxes	360,830	Apr. 5	612	{ 160 161 }	{ 39 39 }	115
Sueur, Edward, assignor to Lyon & Healy, Chicago, Ill. Zither attachment for music-boxes	361,654	Apr. 19	1809	469	39	354
Suffern, James B., Hillburn, N. Y. Railway-switch	370,988	Oct. 4	382	95, 96	41	76
Sugden, Thomas. (See McDougall and Sugden.)						
Sugg, J. F. Herbert, Sabula, Iowa. Bottle attachment	359,412	Mar. 15	1426	365	38	1181
Suits, Anna M. (See Suits, Wallace, assignor.)						
Suits, Wallace, assignor to A. M. Suits, Canastota, N. Y. Percolator	373,420	Nov. 15	1730	457	41	807
Sullenberger, Samuel A., assignor of two-thirds to T. Weaver and E. Z. Wallower, Harrisburg, Pa. Magazine-gun	356,338	Jan. 18	1493	393	38	300
Sullinger, J. W., <i>et al.</i> (See McCullough, David W., assignor.)						
Sullivan, Charles A., Windsor, Ontario, Canada. Tool for setting shoe-lace holders	363,433	May 24	1921	504	39	858
Sullivan, Cornelius C., Roorkee, India. Dredging-machine	374,506	Dec. 6	479	{ 124 125 }	{ 41 41 }	1138
Sullivan, Cornelius F., assignor to F. W. Lowe, Boston, Mass. Garment-supporter	374,715	Dec. 13	781	205	41	1208
Sullivan, Daniel F., and W. J. Graham, Lowell, Mass. Circular-knitting machine	358,900	Mar. 8	726	{ 179 180 }	{ 38 38 }	1042
Sullivan, James L., Xenia, Ind. Clock striking mechanism	370,219	Sept. 20	1312	349	40	1296
Sullivan, James M., assignor of one-half to G. W. T. Hannah, Thomaston, Ga. Fertilizer-distributor	356,175	Jan. 18	1264	334	38	257
Sullivan, John, Fall River, assignor to G. Draper & Sons, Hopedale, Mass. Shuttle-guard for looms	355,797	Jan. 11	701	183	38	145
Sullivan, John T. (See Skinner, John L., assignor.)						
Sullivan Machine Company. (See Ball, Albert, assignor.)						
Sullivan, Patrick J., Timberville, Va. Sectional metallic sole	355,897	Jan. 11	860	224	38	174

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Sullivan Saddle Tree Company, J. S. (See Wines, Robert, assignor.)						
Sullivan, Samuel J., Lamar, Mo. Churn	359,645	Mar. 22	1804	{ 458 459 }	{ 38 }	1267
Sullivan, Timothy, and E. L. Etheridge, New York, N. Y. Submarine torpedo	370,570	Sept. 27	1827	486	40	1399
Sully, Robert M., Petersburg, Va. Seal-lock	363,775	May 24	2422	629	39	954
Sully, Robert M., Petersburg, Va. Seal-tag for seal-locks	365,029	June 14	1192	314	39	1316
Sulzer, Rudolf. (See Hochhacker and Sulzer.)						
Sumerel, William M., Clinton, S. C. Table	370,747	Sept. 27	2096	556	40	1450
Sumerwell, Edward K., Covington, Ky. Vessel for heating or cooking fruit, milk, &c.	358,085	Feb. 22	1946	514	38	807
Sumerwell, Edward K., Covington, Ky. Carburetor	359,646	Mar. 22	1805	459	38	1267
Summerfeld, Heinrich, Canton, assignor to J. C. Hamilton, McPherson, Kans. Fanning-mill	359,944	Mar. 22	2271	571	38	1351
Summerfeld, Heinrich, Canton, assignor to J. C. Hamilton, McPherson, Kans. Fanning-mill	359,945	Mar. 22	2272	571	38	1351
Summers, Andrew J., Archie, Mo. Motive power	358,086	Feb. 22	1947	514	38	807
Summers, Henry. (See Rouse and Summers.)						
Summers, Henry C. (See Zietzke and Summers.)						
Summers, Lucius P., Ormond, Fla., assignor to P. & F. Corbin, New Britain, Conn. Electrical door-opener	358,417	Feb. 22	2408	640	38	893
Summit Stone Company. (See Parker, De Forest, assignor.)						
Sumner, George F., administrator. (See Townsend, Matthew.)						
Sumner, George F., and E. Moser, Mount Clemens, Mich. Box-fastener	373,758	Nov. 22	2228	596	41	916
Sumner, Maria T. (See Townsend, Matthew, assignor.)						
Sumner, Ransom S., Fullerton, Nebr. Car-coupling	357,510	Feb. 8	1098	289	38	635
Sumser, John H. (See Madden, Samuel L., assignor.)						
Sun Electric and Illuminating Company. (See Slattery, Marmaduke M. M., assignor.)						
Sun Electric Company. (See Slattery, Marmaduke M. M., assignor.)						
Sun Electric Light Company. (See Slattery, Marmaduke M. M., assignor.)						
Sun Gas Light Company. (See Fisher, Charles, assignor.)						
Sunderland, John P., Brooklyn, N. Y. Mechanical telephone	373,862	Nov. 29	2383	641	41	953
Sundström, Karl J., Rustic, N. J., assignor, by mesne assignments, to American Forceite Powder Manufacturing Company, New York, N. Y. Blasting-powder	370,025	Sept. 13	1027	.....	40	1235
Sundström, Karl J., Dover, N. J., assignor of one-half to J. Macbeth, Brooklyn, N. Y. Electric fuse	374,640	Dec. 13	679	179	41	1188
Supple, Maties. (See Walther and Supple.)						
Suratt, Ralph M., assignor of two-thirds to J. J. Sargent and P. W. Stack, Terre Haute, Ind. Vehicle-wheel	356,383	Jan. 18	1555	409	38	312
Surprenant, Lucien, Putnam, Conn. Nut-lock	371,526	Oct. 11	1114	290	41	226
Susemihl, Francis G., Detroit, Mich. Freight-car door	370,502	Sept. 27	1729	459	40	1381
Susemihl, Francis G., Detroit, Mich., and L. K. Jewett, Boston, Mass. Car-truck	361,845	Apr. 26	2091	543	39	413
Susemihl, Francis G., Detroit, Mich., and L. K. Jewett, Boston, Mass. Car-truck	361,846	Apr. 26	2093	544	39	413
Susemihl, Francis G., and W. A. Pungs, Detroit, Mich. Brake-beam	369,213	Aug. 30	2675	711	40	998
Susquehanna Manufacturing Company. (See McCollum, Milnes, and Hartman, assignors.)						
Süss, Hermann, Marburg, Prussia, Germany. Magnesium-lamp	370,904	Oct. 4	242	61, 62	41	47
Sutcliffe, Thomas, London, county of Middlesex, England. Bottle-stopper	356,176	Jan. 18	1265	334	38	257
Sutherland, Alexander M., et al. (See Lane, William P., assignor.)						
Sutherland, Alexander M., Elizabeth, N. J. Process of and apparatus for manufacturing gas	373,158	Nov. 15	1328	352	41	733
Sutherland, Arthur J., Battle Creek, Mich. Running-gear for vehicles	372,391	Nov. 1	161	46	41	500
Sutherland Corrugated Seam Company. (See Sutherland, D. A., assignor.)						
Sutherland Corrugated Seam Company et al. (See Tucker, Rollin D., assignor.)						
Sutherland, Daniel A., Lynn, Mass., assignor to Sutherland Corrugated Seam Company, Nashua, N. H. Machine for corrugating seams	371,527	Oct. 11	1115	{ 290 291 }	{ 41 }	226
Sutherland, George H., Walla Walla, Wash. Ter. Steam-boiler	355,665	Jan. 4	502	133	38	98
Sutherland, John B., Syracuse, N. Y. Steam-engine governor	367,461	Aug. 2	140	40	40	478
Sutherland, Levi, Indianapolis, Ind. Thill-coupling	370,905	Oct. 4	243	62	41	48
Sutherland, Robert, Boston, Mass. Fire-escape	370,102	Sept. 20	1145	303	40	1264
Suttie, William J., St. Louis, Mo. Spectacle-temple	372,437	Nov. 1	226	63	41	513
Sutro, E. (See Chester, Elijah G., assignor.)						
Sutton, Andrew H., assignor to Fabric Measuring and Packaging Company, New York, N. Y. Machine for measuring fabrics and printing the measures thereon	359,368	Mar. 15	1350	{ 348 349 }	{ 38 }	1167
Sutton, Andrew H., and P. H. Watson, deceased, New York, N. Y., (R. R. Watson, executrix;) said Sutton assignor to said Watson. Machine for measuring textile fabrics, &c.	359,579	Mar. 15	1689	{ 431 432 }	{ 38 }	1229
Sutton, Benjamin F., Brooklyn, assignor to Parker, Stearns & Sutton, New York, N. Y. Valve for syringes	362,678	May 10	869	237	39	642
Sutton, Edward, Brooklyn, N. Y. Fire-escape	369,137	Aug. 30	2584	686	40	980
Sutton, Eugene S., Snohomish, Wash. Ter. Self-oiling loose pulley	355,666	Jan. 4	503	133	38	98
Sutton, George D., assignor to G. D. Sutton, Jr., New York, N. Y. Conduit for electric wires	355,798	Jan. 11	702	183	38	145
Sutton, George D., assignor to G. D. Sutton, Jr., New York, N. Y. Conduit for electric wires and cables	367,768	Aug. 2	629	169	40	569
Sutton, Henry M. (See Crowds and Sutton.)						
Sutton, James M., Bryan, Tex. Cultivator	368,252	Aug. 16	1338	352	40	721
Sutton, Jesse T., and G. M. Terry, Sharon, Tenn. Bridle	362,591	May 10	741	205	39	618
Sutton, Margureite A., Arlington, and A. O. Wood, Frederick, Md. Safety-skirt	357,135	Feb. 1	583	150	38	528
Sutton, William, St. Louis, Mo. Swing-bearing for street-cars	364,192	May 31	3026	786	39	1074
Sutton, William, assignor to LaCledé Car Company, St. Louis, Mo. Car-sash	364,191	May 31	3025	785	39	1074
Sutzin, Jacob. (See Brownrigg, George R., assignor.)						
Sutzin, Jacob. (See Brownrigg and Sutzin.)						
Suydam, James, St. Paul, Minn. Vent	362,554	May 10	680	191	39	608
Svacina, John, and J. Radl, Manitowoc, Wis. Gate for swinging bridges	357,796	Feb. 15	1546	403	38	727
Svedberg, John A., Loudoun, Va. Boiler	368,739	Aug. 23	2026	537	40	863
Svensen, Christian, Chicago, Ill. Combined harrow and seeder	373,159	Nov. 15	1330	{ 352 353 354 }	{ 41 }	734
Svensson, Sven P., Orange, N. J. Crate for shipping and packing hats	370,989	Oct. 4	383	96	41	76
Swain, William J. (See Railsback, Jeremiah J., assignor.)						
Swain, Apiaus C., Merced, Cal. Gas-machine	368,982	Aug. 30	2371	630	40	938
Swain, Charles R., assignor of one-half to W. D. Southard, Peekskill, N. Y. Telephone-signal	359,984	Mar. 22	2335	587	38	1362
Swain, Hadwen, San Francisco, Cal. Throw-off for printing-presses	373,421	Nov. 15	1733	457	41	807
Swallow, Joseph D., and W. H. Keeny, Port Allegheny, Pa. Automatic fire-extinguisher	374,912	Dec. 13	1072	280	41	1264
Swalwell, James, Battersea, county of Surrey, and J. Moore, South Stockton-on-Tees, county of York, England. Pulley-block	357,641	Feb. 15	1314	346	38	685

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Swan, Alanson D. (See Brainard and Swan.)						
Swan, Alfred, Newcastle-upon-Tyne, county of Northumberland, England, assignor to Vitrite and Luminoid Company, New York, N. Y. Electric switch	362,469	May 3	562	156	39	582
Swan, Charles, Corry, Pa. Flying-target trap	356,297	Jan. 18	1431	376	38	289
Swan, Charles R., assignor of one-third to A. Bishop, Bois Brule, Mo. Animal-trap	365,763	June 28	2296	597	39	1547
Swan, Charles R., assignor of one-third to B. F. and W. S. Wilkinson, Bois Brule, Mo. Crate	372,992	Nov. 8	1064	284	41	675
Swan, George, Grand View, Ohio. Wood-boring machine	375,223	Dec. 20	1524	{ 400 401 }	{ 41 41 }	1359
Swan, George E., Beaver Dam, Wis. Spring-heel for boots or shoes	370,906	Oct. 4	244	62	41	48
Swan, George E., Beaver Dam, Wis. Spring-heel for boots or shoes	370,907	Oct. 4	245	63	41	48
Swan, George W., assignor of one-fourth to J. H. Lyman, San Francisco, Cal. Roofing material	358,502	Mar. 1	118	28	38	925
Swan, George W., assignor of one-fourth to J. H. Lyman, San Francisco, Cal. Paint	369,301	Aug. 30	2800	.....	40	1023
Swan, Henry C., Oshkosh, Wis. Vehicle-spring	372,717	Nov. 8	637	173	41	601
Swan, Henry C., assignor of one-half to H. M. Clark, Oshkosh, Wis. Spring for vehicles	365,355	June 21	1673	437	39	1417
Swan, James, Seymour, Conn. Ratchet tool-handle	357,245	Feb. 8	735	191	38	566
Swan, William L., Lansing, Mich. Heating-stove	362,045	Apr. 26	2380	621	39	464
Swan, William W., Andover, Dak. Ter. Straw-burning cook-stove	375,395	Dec. 27	1750	459	41	1411
Swander, John T., Lima, Ohio. Refrigerator dairy-can	359,985	Mar. 22	2336	587	38	1362
Swaney, Charles E., Camden, N. J. Pencil-holder for slates	369,663	Sept. 6	489	134	40	1127
Swann, George B. (See Lenix and Swann.)						
Swann, John. (See Ethridge and Waite, assignors.)						
Swann, John, <i>et al.</i> (See Stewart, George W., assignor.)						
Swann, Thomas E., assignor to A. C. Rex & Co., Philadelphia, Pa. Sad-iron	371,227	Oct. 11	700	180	41	146
Swanson, Louis. (See Anderson, Oliver, assignor.)						
Swart, William D., Newark, N. J. Car-coupling	363,860	May 31	2548	662	39	984
Swart, William D., Newark, N. J. Refrigerator-latch	371,904	Oct. 18	1676	432	41	347
Swarts, James E. (See Bentley, Marshall G., assignor.)						
Swartwout, Willard B., Three Rivers, Mich. Car-wheel	369,752	Sept. 13	598	162	40	1157
Swartz, Oliver E., assignor of one-half to H. Hout, Birmingham, Ala. Railway-switch	363,348	May 17	1802	472	39	827
Swartzbaugh, John H., Tiffin, Ohio. Spark-arrester	366,135	July 5	525	141	40	99
Swartzbaugh, John H., assignor of one-half to W. Hyter, Tiffin, Ohio. Spark-arrester	374,562	Dec. 6	569	149	41	1156
Swartzwelder, Harrison, <i>et al.</i> (See Allfree, James B., assignor.)						
Swasey, Sherburn L., Newbury, Vt. Combined watch-key and chain-bar	361,655	Apr. 19	1811	469	39	354
Sweaney, William H. (See Helm and Sweaney.)						
Swearingen, Francis M. (See Shaffer, William A., assignor.)						
Sweatman, Willis P., <i>et al.</i> (See Curry, John, assignor.)						
Sweeney, Dominic F. (See Carr, Joseph J., assignor.)						
Sweeney, John M., Wheeling, W. Va. Rudder for boats	360,488	Apr. 5	133	32	39	25
Sweeny, Milton M., Pittsburg, Pa. Leggin	373,788	Nov. 22	2273	609	41	923
Sweet & Allison Manufacturing Company. (See Sweet and Allison, assignors.)						
Sweet, Benjamin W., Rodney, Mich. Car-coupling	355,356	Jan. 4	90	24	38	19
Sweet, Benjamin W., Chicago, Ill. Car-coupling	369,369	Sept. 6	85	26	40	1050
Sweet, Charles H., Lamar, Mo. Stove-pipe joint	373,950	Nov. 29	2507	673	41	976
Sweet & Clark Manufacturing Company. (See McPherson and Sweet, assignors.)						
Sweet & Clark Manufacturing Company. (See Sweet, Miles, assignor.)						
Sweet, David C., Cummings, and F. Allison, Grand Crossing, assignors to Sweet & Allison Manufacturing Company, Chicago, Ill. Machine for making cut nails	375,302	Dec. 20	1626	{ 426 427 }	{ 41 41 }	1378
Sweet, Edward A. (See Hunziker, Edward, assignor.)						
Sweet, George, Dansville, N. Y. Harrow-tooth attachment	361,792	Apr. 26	2011	524	39	398
Sweet, George, Dansville, N. Y. Wheel-harrow	367,462	Aug. 2	141	41	40	478
Sweet, Hannibal L., Fond du Lac, Wis. Sled	373,498	Nov. 22	1857	494	41	843
Sweet, Isaac M., assignor of one-half to D. B. Potter, Providence, R. I. Gearing for changing speed	363,776	May 24	2424	629	39	955
Sweet, John M., Batavia, N. Y. Wheel-hub	365,106	June 21	1317	{ 348 349 }	{ 39 39 }	1349
Sweet, John M., assignor to Batavia Wheel Company, Batavia, N. Y. Vehicle-hub	369,892	Sept. 13	814	216	40	1197
Sweet, Lebbeus, Wellsville, N. Y. Spring-tooth harrow	358,950	Mar. 8	790	199	38	1055
Sweet, Miles. (See McPherson and Sweet.)						
Sweet, Miles, assignor to Sweet & Clark Manufacturing Company, Troy, N. Y. Curry-comb	370,748	Sept. 27	2097	556	40	1450
Sweet, Thomas A., Paso Robles, Cal. Window-sash	357,246	Feb. 8	737	191	38	566
Sweet, Welcome F. (See Stonitsch and Sweet.)						
Sweet, William A., Syracuse, N. Y. Wire nail	373,499	Nov. 22	1858	494	41	843
Sweet, William C., Schenectady, N. Y. Refrigerator	355,667	Jan. 4	504	133	38	98
Sweeting, T. Henry, <i>et al.</i> (See Collins, M. Grier, assignor.)						
Sweetland, Cornelius S. (See Catlin, Charles A., assignor.)						
Sweetland, Jerome B., Pontiac, Mich. Weight-power	370,026	Sept. 13	1028	271	40	1235
Sweetser, William A. (See Ryan, George H., assignor.)						
Sweitzer, Gerhart P. (See Coleman, Armentrout, and Sweitzer.)						
Sweney, Charles E., Pierceton, assignor of two-thirds to T. J. Heagy, Kosciusko County, and C. R. Long, Pierceton, Ind. Check-rower corn-planter	357,563	Feb. 8	1192	{ 313 314 }	{ 38 38 }	653
Sweney, Charles E., assignor to C. R. Long, M. E. Sweney, Pierceton, and T. J. Heagy, Kosciusko County, Ind. Corn-planter	360,489	Apr. 5	134	33	39	26
Sweney, Mary E., <i>et al.</i> (See Sweney, Charles E., assignor.)						
Swenson, Magnus, Fort Scott, Kans. Manufacture of sugar	371,528	Oct. 11	1116	.....	41	227
Swett, George W., Lansingburg, assignor to Swett, Quimby & Co., Troy, N. Y. Oil-stove	355,732	Jan. 11	606	158	38	129
Swett, Quimby & Co. (See Swett, George W., assignor.)						
Swett, William E., San Francisco, Cal. Music-leaf turner	363,489	May 24	2011	{ 524 525 }	{ 39 39 }	877
Swift, Alfred W., Kinzua, Pa. Elevating apparatus for wells	375,717	Dec. 27	2207	574	41	1496
Swift, Bradley G. (See Travis, Jerome, assignor.)						
Swift, Charles N., New York, N. Y. Moistening-partition for tobacco-cases	366,435	July 12	921	250	40	183
Swift, George F., <i>et al.</i> (See Averell, John D., assignor.)						
Swift, James H. (See Nash and Burley, assignors.)						
Swift, James H. (See Roser, Harry, assignor.)						
Swift, James H. (See Swift, James P. and J. H.)						
Swift, James H. (See Treacy, Frank H., assignor.)						
Swift, James P. and J. H., Evansville, Ind. Door-check	374,563	Dec. 6	570	149	41	1156
Swift, Joseph H., Brooklyn, N. Y. Machine for printing boxes	368,253	Aug. 16	1339	353	40	721
Swift, Nathan G., Millbrook, N. Y. Farm-gate	356,178	Jan. 18	1268	334	38	258
Swift, R. K., <i>et al.</i> (See Phelps, Lyman E., assignor.)						
Swift, Thomas M. (See Clark, William P., assignor.)						
Swift, William A., Oak Hill, Pa. Sash-holding device	356,177	Jan. 18	1267	334	38	257

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Swigart, Frank W., Cloverdale, Cal. Combined roller and towel-rack.....	364,611	June 7	567	153	39	1194
Swihart, Henry, Massillon, Ohio. Steam-boiler.....	369,302	Aug. 30	2801	747	40	1023
Swin, Thomas P., and J. L. Carr, assignors of one-third to P. J. Hauft, Brooklyn, N. Y. Operating bells and indicators in street-cars, &c.....	358,129	Feb. 22	2018	531	38	819
Swinburne, Richard M., La Crosse, Wis. Ink-eraser.....	365,551	June 28	1979	516	39	1488
Swindell, William, Allegheny City, Pa. Gas-stove.....	366,701	July 19	1311	352	40	266
Swindell, William, Allegheny City, Pa. Furnace.....	367,251	July 26	2064	557	40	415
Swindell, William, Allegheny City, Pa. Gas-furnace.....	368,254	Aug. 16	1342	{ 353 } 354	{ 40 } 38	721 217
Swindler, Thomas B., Findlay, Ohio. Cultivator attachment.....	356,052	Jan. 11	1078	283	38	217
Swinehart, William H., et al. (See Mitchell, Oliver F., assignor.)						
Swinerton, Charles E., New York, N. Y. Locomotive driving-wheel.....	362,046	Apr. 26	2382	621	39	464
Swingle, Alonzo Z., Rondo, Mo. Car-coupling.....	359,647	Mar. 22	1807	459	38	1267
Swinscoe, Charles. (See Scarles, Benjamin, assignor.)						
Swinscoe, Charles, assignor to Clinton Wire Cloth Company, Clinton, Mass. Metallic lath- ing.....	358,503	Mar. 1	119	29	38	926
Swinscoe, Charles, assignor to Clinton Wire Cloth Company, Clinton, Mass. Metallic lath- ing.....	358,504	Mar. 1	120	29	38	926
Switzer, William C., Comanche, Tex. Fifth-wheel.....	355,799	Jan. 11	704	184	38	145
Sword, James B., Philadelphia, Pa. Packing-box.....	358,232	Feb. 22	2159	569	38	846
Syer, Milton, Peckham, county of Surrey, England. Siphon water-waste preventer.....	355,800	Jan. 11	705	184	38	146
Sylvester, Fred L., Chelsea, Mass. Piston water-meter.....	365,323	June 21	1626	424	39	1407
Sylvester, George. (See Michelson, Sigismund M., assignor.)						
Sylvester, Richard T., Rosenfeld, Manitoba, Canada. Nut-lock.....	366,436	July 12	922	250	40	183
Sylvester, Sidney S., et al. (See Strang, Lew K., assignor.)						
Sylvester, W. Allen, Chelsea, Mass. Piston meter.....	372,342	Nov. 1	87	25	41	488
Sylvester, W. Allen, Chelsea, Mass. Piston meter.....	373,500	Nov. 22	1858	494	41	843
Syme, Frederick J., New Orleans, La. Rice-machine.....	365,451	June 28	1823	474	39	1456
Synchronous Time Company. (See Scales, William S., assignor.)						
Syracuse Chilled Plow Company. (See Wiard, Judd, and Bullock, assignors.)						
Syracuse Fibre Ware Company. (See Stevens, John, assignor.)						
Syracuse Sash and Door Company. (See Tabor, Clinton D., assignor.)						
Syerson, Carl, assignor of two-thirds to M. H. and H. W. Ball, Madison, Wis. Forging- machine.....	371,638	Oct. 18	1270	{ 329 } 330	{ 41 } 38	266 727
Taber, Benjamin F., Buffalo, N. Y. Journal-box for rotary pumps.....	357,797	Feb. 15	1547	403	38	727
Taber, Charles, New Bedford, Mass. Picture-frame.....	374,641	Dec. 13	682	179	41	1188
Taber & Co., Charles. (See Watkins, Frank W., assignor.)						
Taber, Henry E., Watkins, N. Y. Stove or furnace.....	360,063	Mar. 29	2480	630	38	1397
Taber, Robert H., Fairhaven, assignor, by mesne assignments, to G. Flint, Lincoln, Mass. Lantern.....	362,331	May 3	362	100	39	544
Taber, Thomas T., et al. (See Barnes, Wesley W., assignor.)						
Tabony, Joseph H., New Orleans, La. Telephone-receiver.....	360,626	Apr. 5	336	84	39	64
Tabony, Joseph H., assignor of two-thirds to C. E. Black and A. Violett, New Orleans, La. Telephone-transmitter.....	359,188	Mar. 8	1092	284	38	1112
Tabony, Joseph H., assignor of one-half to A. Violett, New Orleans, La. Toll-collecting apparatus for public telephone-stations.....	359,747	Mar. 22	1952	{ 495 } 496	{ 38 } 38	1293 452
Tabor, Benjamin C., Salem, Oreg. Kitchen-cabinet.....	356,855	Feb. 1	158	42	38	452
Tabor, Clinton D., assignor of two-thirds to Syracuse Sash and Door Company, Syracuse, N. Y. Window-screen frame.....	358,582	Mar. 1	253	59	38	950
Tabor, Harris, assignor to Tabor Manufacturing Company, New York, N. Y. Sand-mold- ing machine.....	365,709	June 28	2209	577	39	1530
Tabor, Harris, assignor to Tabor Manufacturing Company, New York, N. Y. Metal-found- ing machine.....	365,710	June 28	2212	577	39	1530
Tabor, Harris, assignor to Tabor Manufacturing Company, New York, N. Y. Sand-mold- ing machine.....	365,711	June 28	2214	577	39	1531
Tabor, Harris, assignor to Tabor Manufacturing Company, New York, N. Y. Metal-found- ing machine.....	369,214	Aug. 30	2676	711	40	999
Tabor Manufacturing Company. (See Tabor, Harris, assignor.)						
Taeterow, Ludwig, New York, N. Y. Step-ladder and table.....	357,048	Feb. 1	432	114	38	501
Tafflinger, Charles E., Seneca Falls, N. Y. Coupling for wires and bands.....	372,579	Nov. 1	438	116	41	553
Taft & Co., Walter E. (See Taft, Walter E., assignor.)						
Taft, George W., Abington, Conn. Machine for making, repairing, and cleaning roads.....	362,679	May 10	871	{ 237 } 238	{ 39 } 39	642 1362
Taft, Gustavus E., Whitinsville, Mass. Yarn-separating device for spinning-machines.....	365,155	June 21	1386	366	39	1362
Taft, Gustavus E., Whitinsville, Mass. Stopping mechanism for looms.....	365,650	June 28	2117	553	39	1513
Taft, Walter E., assignor to W. E. Taft & Co., Providence, R. I. Wrench.....	362,908	May 10	1197	320	39	703
Tainter, Charles S., Washington, D. C. Paper cylinder for graphophonic records.....	374,133	Nov. 29	2768	744	41	1027
Tainter, Charles S., Washington, D. C. Apparatus for recording and reproducing speech and other sounds.....	375,579	Dec. 27	2002	{ 520 } 521 522	{ 41 } 41	1459 478
Tainter, William H. H., et al. (See King, George H., assignor.)						
Tait, Felix B., and J. Gross, Decatur, Ill. Check-row corn-planter.....	367,463	Aug. 2	143	41, 42	40	478
Tait, William C., assignor of one-fourth to H. M. Sceva, Mechanicsburg, Ohio. Chair.....	362,796	May 10	1043	284	39	674
Talbot, Edgar F. (See Talbott, Sylvanus F., assignor.)						
Talbot, William, Philadelphia, Pa. Woven fabric.....	372,343	Nov. 1	88	26	41	488
Talbot, William P., Brooklyn, N. Y. Manufacture of white lead.....	374,716	Dec. 13	782	205	41	1208
Talbott, Sylvanus J., assignor to E. F. Talbot, Milford, N. H. Musical instrument.....	375,224	Dec. 20	1526	401	41	1359
Talcott, William A. (See Emerson, Ralph, assignor.)						
Taliaferro, Eilbeck H., assignor of one-third to E. L. Fowler, Atlanta, Ga. Attachment for chairs.....	366,525	July 12	1051	286	40	209
Taliaferro, Ruben F. (See Arnold, Mitchell, and Taliaferro.)						
Tallerday, Franklin G., Poplar Grove, Ill. Device for transmitting mechanical power.....	359,107	Mar. 8	1000	257	38	1094
Talley, Amor L., and B. R. Rapp, West Chester, Pa. Machine for washing cans.....	357,049	Feb. 1	433	115	38	502
Talley, William H., Buchanan, Va. Churn.....	357,247	Feb. 8	738	191	38	566
Tallmadge, James W., New York, N. Y. Fluid ink-eraser.....	358,901	Mar. 8	729	.....	38	1043
Tallmage, Horace K., Buffalo, N. Y. Combined register, border, and box.....	363,181	May 17	1577	416	39	785
Tallman, Charles H. (See Blankley and Tallman.)						
Tallman, Frank G., Beaver Falls, Pa. Conductor for rolling-mills.....	366,136	July 5	525	142	40	99
Tallman, Frank G., Beaver Falls, Pa. Device for balancing rolls of rolling-mills.....	367,464	Aug. 2	147	42	40	479
Tampier, Louis, Bordeaux, France. Apparatus for displaying public announcements.....	373,951	Nov. 29	2508	{ 673 } 674 675	{ 41 } 41	976 1117
Tangye, Edward, Redruth, county of Cornwall, England. Metallic fuse.....	364,318	June 7	152	43	39	1117
Tannatt, Joshua F., Springfield, Mass. Portable stationery-case.....	361,847	Apr. 26	2095	544	39	413

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Tanner, Albert C. (See Williams and Tanner.)						
Tanner & Delaney Engine Company. (See Blasdale, John, assignor.)						
Tanner, Henry, <i>et al.</i> (See Scoville, Thaddeus S., assignor.)						
Tanner, Richard W., Albany, N. Y. Lamp-shelf	367,465	Aug. 2	148	42	40	480
Tanner, Richard W., Albany, N. Y. Pedal	372,776	Nov. 8	741	201	41	618
Tanner, Samuel W., Philadelphia, Pa. Car-wheel	358,951	Mar. 8	791	199	38	1055
Tanner, William J., London, county of Middlesex, England. Truck	369,215	Aug. 30	2678	712	40	999
Tapley, David, Woodstock, New Brunswick, Canada. Railway-signal	361,467	Apr. 19	1538	398	39	302
Tapley Machine Company. (See Addy, Charles J., assignor.)						
Taplin, Alvin, Forestville, assignor to Bristol Brass and Clock Company, Bristol, Conn. Hanging lamp	363,698	May 24	2320	602	39	934
Taplin, Alvin, Forestville, assignor to Bristol Brass and Clock Company, Bristol, Conn. Manufacture of bent tubes. (Reissue)	10,857	Aug. 9	1213	324	40	689
Taplin, Alvin, Forestville, assignor to Bristol Brass and Clock Company, Bristol, Conn. Die for forming bent tubes. (Reissue)	10,858	Aug. 9	1214	{ 324 325 }	{ 40 40 }	{ 690 690 }
Taplin, Alvin, Forestville, assignor to Bristol Brass and Clock Company, Bristol, Conn. Bent tube. (Reissue)	10,859	Aug. 9	1216	325	40	690
Tappan, Charles H., Attleborough Falls, Mass. Cuff-holder	363,699	May 24	2321	602	39	935
Tapper, Henry H., Lancaster, Pa. Grass-receiver for lawn-mowers	363,093	May 17	1457	385	39	759
Tappey, Leopold C., Jr., New York, N. Y. Device for cutting buttons from shoes	370,290	Sept. 20	1405	377	40	1314
Tappey, William H., Petersburg, Va. Fluid-compressor	360,542	Apr. 5	218	55	39	42
Tarbell, Levi D. (See Roraback, Tarbell Z., assignor.)						
Tarbell, Reuben J., Solomon City, Kans. Fly trap and screen for windows and doors	363,861	May 31	2550	662	39	985
Tarbox, James E., Lynn, Mass. Electrical indicator for weighing-scales	374,013	Nov. 29	2593	696	41	993
Tarn, John, and G. A. Schury, Tarrytown, assignors to G. R. Cullingworth, New York, N. Y. Rock-drill stuffing-box	370,990	Oct. 4	385	96	41	76
Tarrant, Robert. (See Hopping, George L., assignor.)						
Tasker, Stephen P. M., Philadelphia, Pa. Sand-molding machine	356,856	Feb. 1	159	43	38	452
Tasker, Stephen P. M., Philadelphia, Pa. Pneumatic apparatus for the propulsion of vehicles	364,450	June 7	344	94, 95	39	1154
Tasker, Stephen P. M., Philadelphia, Pa. Pneumatic engine	364,451	June 7	347	95, 96	39	1154
Tasker, Thomas G., Onslow, Iowa. Cultivator	372,500	Nov. 1	314	86	41	530
Tasker, William H., Tavistock Square, and T. J. Jones, assignors to Primary Battery Company, (limited), Hanover Square, county of Middlesex, England. Manufacture of plates or elements for voltaic batteries	357,642	Feb. 15	1315	.....	38	685
Tasker, William H., and T. J. Jones, London, assignors to Primary Battery Company, (limited), Hanover Square, county of Middlesex, England. Galvanic battery	358,087	Feb. 22	1948	514	38	807
Tatham, Henry B. (See Brooks, David, assignor.)						
Tatham, Henry B., <i>et al.</i> (See McKnight, Edward, assignor.)						
Tatham, James, <i>et al.</i> (See McKnight, Edward, assignor.)						
Tatham, James, Philadelphia, Pa. Covering insulated electric conductors	363,182	May 17	1578	416	39	785
Tatham, James, Philadelphia, Pa. Insulating compound	366,898	July 19	1575	.....	40	314
Tatham, John, Rochdale, county of Lancaster, England. Ring and traveler for ring-spinning machines, &c.	358,995	Mar. 8	854	216	38	1066
Tatham, William P., <i>et al.</i> (See McKnight, Edward, assignor.)						
Tatum & Bowen. (See Roe, Alpheus E., assignor.)						
Tatum & Bowen. (See Roe and Harback, assignors.)						
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Holder for bottles	356,900	Feb. 1	223	62	38	462
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Lamp-stove	358,505	Mar. 1	121	29	38	926
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Bed-pan	360,490	Apr. 5	138	33	39	26
Tatum & Co., Samuel C. (See Mendenhall, Walter S., assignor.)						
Tausky, Edward, New York, N. Y. Feather trimming	371,992	Oct. 25	1798	466	41	380
Taussig, Sigfried, Prague, Bohemia, Austria-Hungary. Electric fire and burglar alarm	359,823	Mar. 22	2073	525	38	1315
Taussig, Sigfried, Prague, Bohemia, Austria-Hungary. Electric circuit for telephones and fire and burglar alarms	359,824	Mar. 22	2074	525	38	1315
Tavener, Charles F. (See Macrae and Tavener.)						
Taxis, Gideon R., and D. Nickel, Morris, Ill. Ironing-board	370,991	Oct. 4	385	96	41	76
Taylor, Alfred. (See Taylor, Thomas P. and A.)						
Taylor, Alfred, New York, N. Y. Manufacture of gas	359,335	Mar. 15	1304	338	38	1158
Taylor, Alfred, New York, N. Y. Gas apparatus	360,977	Apr. 12	837	214	39	160
Taylor, Alfred, assignor to T. P. Taylor, Bridgeport, Conn. Bustle	372,183	Oct. 25	2090	536	41	432
Taylor, Amos B., Wollaston, Mass. Loom-shuttle	373,913	Nov. 29	2456	660	41	966
Taylor, Benjamin A. (See Taylor, James W. and B. A.)						
Taylor, Carlo R., <i>et al.</i> (See Gavitt, George F., assignor.)						
Taylor, Charles A. (See Buckius, Albert O., assignor.)						
Taylor, Charles A., Chicago, Ill. Trunk-lock	373,863	Nov. 29	2384	641	41	953
Taylor, Charles F., Holyoke, Mass. Machine for treating rags, &c., for paper-stock	355,898	Jan. 11	861	224	38	174
Taylor, Charles R., Philadelphia, Pa., assignor of two-thirds to R. B. Lamb, Mount Holly, and R. W. Sharp, Camden, N. J. Color-printing machine	372,777	Nov. 8	742	201	41	618
Taylor, Charles W. (See White, John F., assignor.)						
Taylor, Clarence W., Janesville, Wis. Fountain-pen	361,468	Apr. 19	1540	398	39	302
Taylor, Edward H., <i>et al.</i> (See Gerstein, Dederick, assignor.)						
Taylor, Enoch L., Philadelphia, Pa. Railway	371,993	Oct. 25	1798	466	41	380
Taylor, Eugene H. (See White and Taylor.)						
Taylor, Eugene H., Lynn, Mass., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Button-setting machine	368,625	Aug. 23	1857	496	40	830
Taylor, Ezekiel F., Washington, Ky. Car-coupling	375,225	Dec. 20	1526	401	41	1360
Taylor, Francis C., Danbury, Conn. Tea or coffee pot	359,292	Mar. 15	1245	323	38	1147
Taylor, Francis C., Danbury, Conn. Pouncing-machine	374,213	Dec. 6	62	16	41	1059
Taylor, Francis C., Danbury, Conn., and D. C. Scoville, Brooklyn, N. Y. Pouncing-tool for hats	374,212	Dec. 6	61	16	41	1058
Taylor, Franklin, Wilmington, Del. Dust-guard for car-axle boxes	358,506	Mar. 1	122	29, 30	38	926
Taylor, Franklin, Wilmington, Del. Dust-guard for car-axle boxes	361,732	Apr. 26	1921	499	39	382
Taylor, Frederick. (See Bisbee, Wisner B., assignor.)						
Taylor, Frederick. (See Davis, Arthur W. S., assignor.)						
Taylor, Frederick, Lowell, Mass. Coat-hanger	365,881	July 5	175	45	40	35
Taylor, Frederick, Lowell, Mass. Wire coat and hat hook	365,882	July 5	176	45	40	35
Taylor, Frederick, Lowell, Mass. Coat and hat hook	374,014	Nov. 29	2594	696	41	994
Taylor, Frederick, Lowell, Mass. Coat and hat hook	374,015	Nov. 29	2595	697	41	994
Taylor, Frederick D., and J. A. White, Hartford, Conn. Book-stitching machine	365,651	June 28	2119	{ 553 554 555 }	{ 39 39 39 }	{ 1514 1514 1514 }
Taylor, Frederick W., Philadelphia, Pa. Metallic table for machine-tools	359,369	Mar. 15	1353	350	38	1167

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Taylor, Frederick W., Philadelphia, Pa. Chuck	368,693	Aug. 23	1956	{ 519 520	{ 40	850
Taylor, G. Elbert, Rochester, N. Y. Thermometer-scale	355,846	Jan. 11	772	202	38	157
Taylor, George, Ennis, Tex. Cotton-compressor	364,384	June 7	241	68	39	1134
Taylor, George W., Castile, N. Y. Eaves-trough	357,876	Feb. 15	1650	429	38	747
Taylor, George W., Leavittsburg, Ohio. Electric coupling	373,759	Nov. 22	2229	597	41	916
Taylor, George W. and S., Smyrna, Del. Wheel-cultivator	355,953	Jan. 11	948	248	38	192
Taylor, Henry E. (See Bailey, Charles A., assignor.)						
Taylor, Henry R. (See Attwood and Taylor.)						
Taylor, Henry R., Oakland, Cal. Cable-railway grip	373,106	Nov. 15	1242	331	41	718
Taylor, Henry S. (See Chinnock and Taylor.)						
Taylor, Hezekiah, Shadwell, Va. Hedge fence	362,332	May 3	363	100	39	544
Taylor, Hilbert E., assignor of one-half to N. Jacco, Bloomington, Wis. Harvester-reel	361,848	Apr. 26	2097	544	39	414
Taylor, Hilliard S., Homer, La. Quilting-frame for sewing-machines	373,320	Nov. 15	1572	416	41	778
Taylor, Hilliard S., Homer, La. Cotton-seed-crushing machine	374,507	Dec. 6	481	125	41	1138
Taylor, J. Bonsall. (See Addicks, William H., assignor.)						
Taylor, James B., Fredericksburg, Ohio. Bale or package tie	357,877	Feb. 15	1651	430	38	747
Taylor, James E. (See Crabb, James N., assignor.)						
Taylor, James M., Mason City, Ill. Foot-rest for pianos	359,695	Mar. 22	1876	476	38	1280
Taylor, James S., Milwaukee, Wis. Spring-mattress	356,339	Jan. 18	1499	394	38	302
Taylor, James W. and B. A., Kansas City, Mo. Safety-catch for elevators	366,745	July 19	1373	367	40	277
Taylor, Jerred R. (See Schorne, Isom J., assignor.)						
Taylor, John E., Springfield, Mass. Process of and apparatus for making embossed paper	361,849	Apr. 26	2098	545	39	414
Taylor, John H., Beaver Falls, Pa. Gas-furnace	365,950	July 5	280	73	40	53
Taylor, John S., et al. (See Barker, Alliston E., assignor.)						
Taylor, Joseph. (See Huff and Taylor.)						
Taylor, Joseph B. (See Watson, John H., assignor.)						
Taylor, Lawrence H., assignor of one-half to F. Smith, Mercer, Me. Combination-press	366,526	July 12	1052	286	40	209
Taylor, Lawrence H., assignor of one-half to F. Smith, Mercer, Me. Steam-cooker	371,228	Oct. 11	701	180	41	147
Taylor, Lewis H., Jr., et al. (See Belisle, Robert S., assignor.)						
Taylor, Lewis P., South Orange, N. J., assignor of three-fourths to C. S. Higgins and J. F. Cowan, Brooklyn, N. Y. Safety-envelope	374,913	Dec. 13	1073	280	41	1264
Taylor, Luke, Butte Creek, Oreg. Railway-tie	363,020	May 17	1357	358	39	740
Taylor, Samuel. (See Taylor, George W. and S.)						
Taylor, Theodore A., Poughkeepsie, N. Y. Pliers for securing fasteners to the corners of boxes	371,639	Oct. 18	1272	330	41	266
Taylor, Theodore A., Poughkeepsie, N. Y. Tap-hole closer	374,855	Dec. 13	975	255	41	1245
Taylor, Thomas, Keokuk, Iowa. Bolt-fastener	363,021	May 17	1358	359	39	740
Taylor, Thomas, assignor of one-half to I. C. Beatty, Camden, N. J. Elastic fabric	363,434	May 24	1921	504	39	858
Taylor, Thomas A. (See Paul, Joseph, assignor.)						
Taylor, Thomas P. (See Close, G. Albertus, assignor.)						
Taylor, Thomas P. (See Hubbard and Williamson, assignors.)						
Taylor, Thomas P. (See Taylor, Alfred, assignor.)						
Taylor, Thomas P., Bridgeport, Conn. Bustle	355,573	Jan. 4	362	97	38	73
Taylor, Thomas P., Bridgeport, Conn. Corset	355,954	Jan. 11	951	248	38	192
Taylor, Thomas P., Bridgeport, Conn. Bustle	358,130	Feb. 22	2021	531	38	819
Taylor, Thomas P., Bridgeport, Conn. Bustle	359,231	Mar. 8	1163	302	38	1124
Taylor, Thomas P., Bridgeport, Conn. Bustle	359,232	Mar. 8	1164	302	38	1124
Taylor, Thomas P., Bridgeport, Conn. Bustle	361,336	Apr. 19	1359	{ 349 350	{ 39	269
Taylor, Thomas P., Bridgeport, Conn. Bustle	364,870	June 14	964	253	39	1275
Taylor, Thomas P., Bridgeport, Conn. Bustle	366,276	July 12	722	196	40	144
Taylor, Thomas P., Bridgeport, Conn. Bustle	370,103	Sept. 20	1146	303	40	1264
Taylor, Thomas P., Bridgeport, Conn. Corset	373,864	Nov. 29	2385	{ 641 642	{ 41	953
Taylor, Thomas P., Bridgeport, Conn. Bustle	374,214	Dec. 6	63	17	41	1059
Taylor, Thomas P., Bridgeport, Conn. Bustle	374,216	Dec. 6	65	17	41	1059
Taylor, Thomas P., Bridgeport, Conn. Bustle	374,642	Dec. 13	682	179	41	1188
Taylor, Thomas P., assignor to Canfield Rubber Company, Bridgeport, Conn. Dress-shield	355,572	Jan. 4	361	97	38	73
Taylor, Thomas P. and A., Bridgeport, Conn. Stay for corsets	374,215	Dec. 6	64	17	41	1059
Taylor, Walter. (See Jones and Taylor.)						
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Hinge	365,552	June 28	1980	516	39	1488
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Combined glass-holder and number-plate for doors	370,166	Sept. 20	1243	330	40	1283
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock	373,107	Nov. 15	1243	331	41	719
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock	373,253	Nov. 15	1471	389	41	759
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Hinge	373,620	Nov. 22	2039	543	41	877
Taylor, William, et al. (See Collins, Charles R., assignor.)						
Taylor, William H. (See Isbell and Taylor.)						
Taylor, William H., and C. D. Cutts, Fort Fairfield, Me. Tension device for sewing-machines	373,760	Nov. 22	2230	597	41	916
Taylor, William M., Atlanta, Ga. Weighing-scale	357,426	Feb. 8	979	258	38	612
Taylor, William W., et al. (See Collins, Charles R., assignor.)						
Taylor, William W., New Orleans, La. Feeder for bagasse-furnaces	364,871	June 14	965	254	39	1276
Teagle, Leander A. (See Evans and Teagle.)						
Tebbetts, Charles F., Fitchburg, Mass. Machine for rolling metal to spherical form	367,682	Aug. 2	490	135	40	543
Tebbutt, Charles G., Bluntisham, county of Huntingdon, England. Paving-brick for stables, &c.	360,928	Apr. 12	755	198	39	147
Teed, Charles E., Griffin's Corners, N. Y. Automatic wagon-brake	363,435	May 24	1922	{ 504 505	{ 39	858
Teed, Eamor A., Lowell, assignor of one-half to J. A. Bartlett, Chelmsford, and F. B. Low, Lowell, Mass. Bench-plane	371,482	Oct. 11	1049	273	41	213
Teed, Edgar G., Brooklyn, N. Y. Refuse-burner	357,108	Feb. 1	514	{ 135 136	{ 38	517
Teed, Jesse S., Moravia, assignor of one-half to W. A. Kirby, Auburn, N. Y. Water-wheel	361,556	Apr. 19	1650	427	39	325
Teed, Ralph L., assignor of one-half to A. McGuire, Chicago, Ill. Elevator-brake	375,396	Dec. 27	1752	460	41	1411
Teetor, Abe L., assignor to J. Cuning, Indianapolis, Ind. Clutch for intestine-machines	366,799	July 19	1443	386	40	289
Teetor, Abram L. (See Whitehead and Teetor.)						
Teets, Francis M. (See Neff, John W., assignor.)						
Teetzel, Charles W., Benton Harbor, Mich. Holdback	372,184	Oct. 25	2091	536	41	432

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Teetzel, J. K. (See Williams, Charles A., assignor.)						
Tegen, Christ, Manitowac, Wis. Sash-balance.....	359,108	Mar. 8	1001	258	38	1095
Tefft, Harvey P., Greenwich, assignor of one-half to E. O. Ward, Syracuse, N. Y. Spring-vehicle.....	372,718	Nov. 8	638	174	41	601
Teichmann, Richard, Brooklyn, N. Y. Tap-valve and tapper for casks.....	359,039	Mar. 8	906	231	38	1076
Teichmann, Richard, Brooklyn, N. Y. Motor.....	368,499	Aug. 16	1688	449	40	789
Telemeter Company. (See Clarke, Charles L., assignor.)						
Telfer, John C., Palatka, Fla. Disk steam-engine.....	359,906	Mar. 22	2212	557	38	1340
Tellefson, Hans J., and T. Gundersen, Rockdale, Wis. Revolving egg-cabinet.....	369,753	Sept. 13	598	162	40	1157
Teller, Carl F., assignor to T. Maynz, Offenbach-on-the-Main, Germany. Letter-box.....	358,632	Mar. 1	315	75, 76	38	962
Temple, Ansel F., Muskegon, Mich. Packing-case.....	361,195	Apr. 12	1168	295	39	222
Temple, Ansel F., Muskegon, Mich. Metallic joint for frames.....	364,973	June 14	1110	{ 289 290 }	{ 39 }	1302
Temple, Ansel F., Muskegon, Mich. Compound board.....	369,216	Aug. 30	2679	712	40	999
Temple, John, Albany, N. Y. Machinery for sewing brooms.....	358,088	Feb. 22	1950	{ 515 516 }	{ 38 }	807
Temple, Morris D., Chicago, Ill. Pump.....	365,951	July 5	282	74	40	54
Templeton, Absalom, Lone Grove, Tex. Wagon-brake.....	367,466	Aug. 2	149	42, 43	40	480
Templeton, David S. and J. D., Lone Grove, Tex. Tire-shrinker.....	355,357	Jan. 4	91	24	38	19
Templeton, John D. (See Templeton, David S. and J. D.)						
Templeton, William, <i>et al.</i> (See McLeod, Angus, assignor.)						
Ten Eyck, Henry B., Charlotte, Mich. Shoe-lace fastening.....	359,477	Mar. 15	1521	389	38	1199
Tennison, William, Mount Vernon, Ind. Rein-holder.....	357,427	Feb. 8	980	258	38	612
Tentschert, Florian, assignor to F. W. Minck, Vienna, Austria-Hungary. Car-brake.....	370,104	Sept. 20	1147	304	40	1265
Terme, Joseph M., and J. Déharbe, assignors to Société Anonyme Co-opérative pour la Construction de Chaudières Inexplosibles, Paris, France. Multitubular boiler.....	372,580	Nov. 1	439	{ 116 117 118 }	{ 41 }	553
Terrell, Charles, Washington, D. C. Steering apparatus.....	370,828	Oct. 4	102	27, 28	41	22
Terry, Eliza A., Menomonee, Wis. Corset.....	356,397	Jan. 18	1574	414	38	316
Terry, George F. (See Bradford, Charles W., assignor.)						
Terry, George M. (See Sutton and Terry.)						
Terry, Henry C. (See Imlay and Williams, assignors.)						
Terry, Hiram, Bonham, Tex. Gate.....	372,438	Nov. 1	227	64	41	513
Terry, Robert, East Saginaw, Mich. Trace-fastening.....	375,226	Dec. 20	1527	401	41	1360
Teske, Charles, Windsor, Conn. Hair-spring-stud index.....	356,179	Jan. 18	1268	335	38	258
Teske, Charles, Windsor, Conn. Dial-repairing tool.....	360,253	Mar. 29	2777	705	38	1451
Tesla Electric Light and Manufacturing Company. (See Tesla, Nikola, assignor.)						
Tesla, Nikola, Smiljan Lika, Austria-Hungary, assignor to Tesla Electric Light and Manufacturing Company, Rahway, N. J. Dynamo-electric machine.....	359,748	Mar. 22	1958	496	38	1294
Tetley, John E., and J. S. Hill, Syracuse, assignors to Empire Folder Company, Phoenix, N. Y. Paper-folding machine.....	358,174	Feb. 22	2081	{ 547 548 549 550 }	{ 38 }	831
Tetty, Robert. (See Odgers, William, assignor.)						
Teuscher, Emil C., <i>et al.</i> (See Cornelius, Nicholas, assignor.)						
Teush, Ambrose H., <i>et al.</i> (See McHale, John, assignor.)						
Tevebaugh, Henry C., Hondo City, Tex. Auger.....	368,626	Aug. 23	1859	497	40	831
Textor, Henry, Brooklyn, N. Y. Sewer-trap.....	373,952	Nov. 29	2510	675	41	976
Thacher, Horace C., and G. H. Breyman, Toledo, Ohio. Submerged sectional filter.....	372,185	Oct. 25	2091	537	41	432
Thacher, Horace C., and G. H. Breyman, Toledo, Ohio. Method of and apparatus for laying submarine pipes.....	375,464	Dec. 27	1843	{ 482 483 }	{ 41 }	1429
Thalheimer, Albert, and W. C. Kantner, Reading, Pa. Awning for windows or doors.....	359,293	Mar. 15	1245	{ 323 324 }	{ 38 }	1147
Thalheimier Bros. (See Hornich, William, assignor.)						
Thatcher, J. Albert. (See Thatcher, Walter C., assignor.)						
Thatcher, John T. (See Greene, John W., assignor.)						
Thatcher, Walter C., assignor of one-third to J. A. Thatcher, Baltimore, Md. Spirit-level.....	359,580	Mar. 15	1693	432	38	1230
Thatcher, Walter R., Oskaloosa, Iowa. Hoisting-machine.....	365,107	June 21	1318	349	39	1349
Thaxter, George E., Boston, Mass. Electrical-circuit closer.....	362,192	May 3	183	55	39	509
Thayer, Austin E., Philadelphia, Pa. Table-leg.....	367,683	Aug. 2	492	135	40	543
Thayer, Charles H., Boston, Mass. Apparatus for pyrotechnic displays.....	356,901	Feb. 1	223	62	38	462
Thayer, Edward P., <i>et al.</i> (See Ivory, John C., assignor.)						
Thayer, Garry S. (See Hodge and Pratt, assignors.)						
Thayer, Harlow H., Boston, Mass. Hulling-machine.....	361,733	Apr. 26	1922	499	39	382
Thayer, James F., Providence, R. I. Button-fastener.....	358,507	Mar. 1	122	30	38	926
Thayer, James F., Providence, R. I. Button and fastener holder.....	373,540	Nov. 22	1928	511	41	856
Thayer, James F., Providence, R. I. Button-fastener.....	373,541	Nov. 22	1929	511	41	856
Thayer, James M., Randolph, Mass. Heater.....	361,380	Apr. 19	1424	368	39	281
Thayer, James M., Randolph, Mass. Car-heater.....	361,469	Apr. 19	1542	399	39	303
Thayer, James M., Randolph, assignor of two-thirds to T. King, Jr., Quincy, and J. C. Coombs, Boston, Mass. Heater for cars and other purposes.....	365,030	June 14	1193	315	39	1316
Thayer, Myron F., Ashland Centre, Mich. Grain-weighing apparatus.....	363,436	May 24	1924	505	39	858
Thayer, William H., Melrose, assignor to W. Minot, Jr., Boston, Mass. Automatic can-stopper.....	356,432	Jan. 18	1625	426	38	325
Thayer, William H., Melrose, assignor to W. Minot, Jr., Boston, Mass. Automatic can-stopper.....	361,909	Apr. 26	2184	566	39	430
Thayer, William H., Melrose, assignor to W. Minot, Jr., Boston, Mass. Automatic can-stopper. (Reissue).....	10,886	Nov. 29	2814	754	41	1036
Thayer, William S., assignor of one-half to W. H. Lounsbury, Owego, N. Y. Last and last-standard.....	374,564	Dec. 6	571	150	41	1157
Thebault, Henry F. (See Stewart, Jennie M., assignor.)						
Theis, Carl, Ohligs, Prussia, Germany. Device for supplying warps to looms.....	361,793	Apr. 26	2012	524	39	398
Theisen, Eduard, Lindenau, near Leipsic, Saxony, Germany. Cooling and condensing apparatus.....	363,094	May 17	1458	386	39	759
Thelen, Nickolas, Schenectady, N. Y. Fire-escape ladder.....	375,107	Dec. 20	1372	357	41	1327
Thelen, Nickolas, Schenectady, and H. Cluever, Albany, N. Y. Railway-crossing gate.....	369,621	Sept. 6	431	121	40	1117
Theller, Samuel L. (See Caspari, Charles F. B., assignor.)						
Theobald, George, assignor to Rubber and Celluloid Harness Trimming Company, Newark, N. J. Harness-saddle tree.....	368,862	Aug. 23	2193	{ 582 583 }	{ 40 }	895
Thiessen, Heinrich, Newark, N. J. Tricycle.....	364,782	June 14	833	219	39	1251
Thistlewood, Thomas. (See Spaulding and Thistlewood.)						
Thoens, Burchard, New Orleans, La. Decorticating-machine.....	361,381	Apr. 19	1425	368	39	281
Thom, Peter R., Appleton, Wis. Paper-calendering machine.....	359,294	Mar. 15	1247	324	38	1147

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Thom, William, Indianapolis, Ind. Lock-seam-elbow machine.....	365,652	June 28	2125	{ 555 556 557 }	39	1515
Thomas, Adelbert A. (See Baldwin, Doyle, and Thomas.)						
Thomas, Albert D., Keokuk, Iowa. Brick-machine.....	375,660	Dec. 27	2125	552	41	1481
Thomas, Allen W., G. W. Way, and H. R. Stickney, Portland, Me., assignors to said Thomas and Way. Combined door-bell and burglar-alarm.....	356,606	Jan. 25	1871	492	38	380
Thomas, Almer B., West Randolph, Vt. Steam-generator.....	375,580	Dec. 27	2009	522	41	1460
Thomas, Charles F., <i>et al.</i> (See Hall, Frank C., assignor.)						
Thomas, Charles L. (See Nieth and Thomas.)						
Thomas, Charles L., Janesville, Wis. Vehicle-spring.....	374,095	Nov. 29	2719	729	41	1019
Thomas, Chauncey, Boston, assignor of one-half to L. B. Nichols, Cambridge, and J. C. Thomas, Boston, Mass. Carriage.....	369,370	Sept. 6	87	27	40	1050
Thomas Clock Company, Seth. (See Higginbotham, Charles T., assignor.)						
Thomas, Eddy T., New York, N. Y., assignor to American Gas Tip Company, of New York, N. Y. Gas-burner tip.....	366,527	July 12	1053	286	40	209
Thomas, Eddy T., New York, N. Y., and W. V. Phillips, Providence, R. I., assignors to American Gas Tip Company, of New York, N. Y. Gas-burner tip.....	366,528	July 12	1054	287	40	209
Thomas, Edwin E., assignor of one-half to J. H. Putnam, Minneapolis, Minn. Rotary steam-engine.....	370,105	Sept. 20	1149	304	40	1265
Thomas, Edwin H. (See Williams and Thomas.)						
Thomas, Emmet A. (See Monighan, John, assignor.)						
Thomas, Evan, Aberdare, county of Glamorgan, England. Miner's lamp.....	358,305	Feb. 22	2259	595	38	865
Thomas, Frank E., N. S. Douglas, A. B. Smith, and D. H. Twing; said Smith assignor to E. F. Delger, Oakland, Cal. Crude-petroleum burner.....	364,062	May 31	2835	736	39	1040
Thomas, Fred A., Woonsocket, R. I. Roving-guide for spinning-frames.....	365,280	June 21	1567	408	39	1395
Thomas, George, Tarklin, Va. Trap for fish or game.....	366,984	July 19	1683	452	40	334
Thomas, George H., Chicopee Falls, Mass. Pie-turner.....	370,503	Sept. 27	1731	459	40	1382
Thomas, Gus. (See White and Thomas.)						
Thomas, Henry. (See Jones and Taylor, assignors.)						
Thomas, Henry H., and J. W. Woodward, Dahlonaga, Ga. Spring-motor.....	362,555	May 10	681	191	39	608
Thomas, Horatio. (See Bostedo and Thomas.)						
Thomas, Horatio, Chicago, Ill., assignor to Bostedo Cash and Package Carrier Company, Atlantic, Iowa. Switch for cash-carriers.....	367,121	July 26	1872	507	40	378
Thomas, Horatio, Chicago, Ill., assignor to Bostedo Cash and Package Carrier Company, Atlantic, Iowa. Support for store-service ways.....	368,028	Aug. 9	1004	270	40	651
Thomas, Horatio, Chicago, Ill., assignor to Bostedo Cash and Package Carrier Company, Atlantic, Iowa. Cash-carrier.....	368,029	Aug. 9	1005	{ 270 271 }	40	651
Thomas, Ira A., Cherry Valley, assignor of one-half to G. B. Chadwick, Riverside, Ark. Hoe for chopping cotton.....	355,801	Jan. 11	706	184	38	146
Thomas, J. Cushing, <i>et al.</i> (See Thomas, Chauncey, assignor.)						
Thomas, James E. (See Campbell, Collingwood, assignor.)						
Thomas, James W., Weeping Water, Nebr. Corn-planter.....	370,664	Sept. 27	1969	{ 521 522 }	40	1427
Thomas, John H. (See Offutt, Joseph E., assignor.)						
Thomas, John H., <i>et al.</i> (See Erwin, L. Clayton, assignor.)						
Thomas, John J., Pittsburg, Pa. Pipe-joint.....	364,686	June 14	668	178	39	1222
Thomas, John R. (See Eastman and Thomas.)						
Thomas, John R. (See Woods and Thomas.)						
Thomas, John R., Boston, Mass., assignor to S. A. Woods Machine Company, of Massachusetts. Band sawing-machine.....	373,031	Nov. 8	1135	{ 303 304 }	41	686
Thomas, Joshua, Cleveland, Ohio. Gas-pressure-regulating valve.....	366,702	July 19	1313	352	40	266
Thomas, Lem M. (See Doyle and Carson, assignors.)						
Thomas, Levi H., Chicago, Ill. Manufacture of paper bottles.....	368,255	Aug. 16	1343	354	40	722
Thomas, Michael C., Adel, assignor of three-fourths to T. L. Wynne and G. C. Briggs, Winterset, Iowa. Automatic checker for corn-plinters.....	355,802	Jan. 11	707	184	38	146
Thomas, Philip A., Nash Mills, Hemel-Hempstead, county of Hertford, England, assignor to Cortright Metal Roofing Company, of Pennsylvania. Metallic plate for facing walls.....	358,175	Feb. 22	2086	550	38	832
Thomas, Richard J. (See Hoffmann, Gustav A., assignor.)						
Thomas, Samuel E., Brooklyn, N. Y. Waste-trap for basins, closets, &c.....	371,107	Oct. 4	534	136	41	106
Thomas, Stephen A. D., Perrysville, Ind. Wheel-cultivator.....	355,899	Jan. 11	862	225	38	174
Thomas, T. Fred. (See Guest, John H., assignor.)						
Thomas, Theodore, New York, N. Y. Core-print and gate-pattern.....	368,311	Aug. 16	1416	374	40	737
Thomas, Thomas C., Columbia, Mo. Leveling-instrument.....	370,106	Sept. 20	1151	305	40	1265
Thomas, William B. (See Mitchell and Thomas.)						
Thomas, William B., Green Camp, Ohio. Adjustable swinging gate.....	374,856	Dec. 13	976	255	41	1246
Thomas, William B., and C. H. Driver, Towns, Ga. Safety-signal for railway-switches.....	366,277	July 12	723	196	40	144
Thomas, William D., assignor to himself, R. J. Peel, and T. B. Atterbury, Pittsburg, Pa. Fluid-pressure regulator and cut-off.....	365,712	June 28	2217	578	39	1531
Thomas, William H. (See Laughlin and Thomas.)						
Thomas, William H., Los Angeles, Cal. Oil-cup.....	369,265	Aug. 30	2746	732	40	1012
Thomas, William H., Los Angeles, Cal. Catarrh remedy.....	369,266	Aug. 30	2748	.....	40	1012
Thomas, William H., Knoxville, Tenn., and E. M. Roberts, Ashland, Ky.; said Thomas assignor to said Roberts. Sand-drier.....	368,500	Aug. 16	1690	450	40	789
Thomas, William J., assignor to H. Root, San Francisco, Cal. Cable-railway grip.....	367,467	Aug. 2	150	43	40	480
Thommen, Adolph, Newark, N. J. Reproducing natural leaves.....	372,094	Oct. 25	1966	.....	41	408
Thompson, Albert. (See Kenworthy, Sexton, and Thompson.)						
Thompson, Amos W., Burlington, Iowa. Corn-cutting mower and reaper attachment.....	365,653	June 28	2131	557	39	1516
Thompson, Andrew L., Millbrook, Ill. Plow.....	360,627	Apr. 5	337	84	39	64
Thompson, Augusta A. (See Hitt, Adrian, assignor.)						
Thompson, Bradford W. (See Foster and Kent, assignors.)						
Thompson, Charles E., Lansingburg, N. Y. Brush.....	370,571	Sept. 27	1828	487	40	1399
Thompson, Chester R., Elberon, Iowa. Addition-pencil.....	356,561	Jan. 25	1813	475	38	368
Thompson, Colin M. (See Lugo, Orazio, assignor.)						
Thompson, Colin M., Brooklyn, N. Y. Insulating material.....	359,825	Mar. 22	2076	.....	38	1316
Thompson, Colin M., Brooklyn, and O. Lugo, New York, N. Y. Curing india-rubber.....	359,907	Mar. 22	2213	.....	38	1340
Thompson, Edgar. (See Knowles, William A., assignor.)						
Thompson, Edward P., Elizabeth, N. J. Incandescent electric lamp.....	365,495	June 28	1884	491	39	1468
Thompson, Edward P., Elizabeth, N. J. Incandescent electric lamp.....	366,352	July 12	825	221	40	163
Thompson, Edward P., Elizabeth, N. J. Making incandescents.....	366,353	July 12	826	222	40	163
Thompson, Edward P., Elizabeth, N. J. Treating filaments for incandescent electric lights.....	369,267	Aug. 30	2748	732	40	1012
Thompson, Edward P., Elizabeth, N. J. Carbonizing-mold for incandescent-electric-light filaments.....	369,664	Sept. 6	490	135	40	1127
Thompson, Edward P., Elizabeth, N. J. Testing electric-light filaments.....	369,665	Sept. 6	491	135	40	1128

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Thompson, Edward P., Elizabeth, N. J. Carbonizing-mold for incandescent-electric-light filaments	369,666	Sept. 6	492	135	40	113
Thompson, Edward P., Elizabeth, N. J. Treating electric-light filaments	370,992	Oct. 4	386	97	41	76
Thompson, Edward P., Elizabeth, N. J. Incandescent electric lamp	370,993	Oct. 4	387	97	41	76
Thompson, Edward P., Elizabeth, N. J. Evacuating globes for incandescent electric lamps	370,994	Oct. 4	388	97	41	77
Thompson, Edward P., Elizabeth, N. J. Manufacturing filaments for incandescent electric lamps	370,995	Oct. 4	390	97	41	77
Thompson, Edward P., Elizabeth, N. J. Evacuating globes for incandescent electric lamps	370,996	Oct. 4	392	98	41	78
Thompson, Edward P., Elizabeth, N. J. Evacuating incandescent electric lamps	370,997	Oct. 4	394	98	41	78
Thompson, Edward P., Elizabeth, N. J. Forming filaments for incandescent electric lamps	370,998	Oct. 4	395	98	41	78
Thompson, Edward P., Elizabeth, N. J. Manufacture of incandescent electric lamps	370,999	Oct. 4	396	99	41	79
Thompson, Edward P., Elizabeth, N. J. Bending filaments for incandescent electric lamps	371,000	Oct. 4	397	99	41	79
Thompson, Edward P., Elizabeth, N. J. Treating filaments for incandescent electric lamps	371,001	Oct. 4	399	99	41	79
Thompson, Edward P., Elizabeth, N. J. Treating filaments for incandescent electric lamps	371,002	Oct. 4	400	99	41	80
Thompson, Edward P., Elizabeth, N. J. Incandescent electric lamp	371,003	Oct. 4	401	100	41	80
Thompson, Edwin. (See Rand and Thompson.)						
Thompson, Erwin W., Augusta, Ga. Seed or grain feeding machine	360,929	Apr. 12	757	198	39	147
Thompson, Erwin W., Charlotte, N. C., assignor to Southern Cotton Oil Company, Camden, N. J. Electric alarm and recorder for oil-presses	371,640	Oct. 18	1273	330	41	266
Thompson, Ethan O., and F. D. Kramer, Philadelphia, Pa. Exhibitor	362,124	May 3	100	31	39	492
Thompson, Evert M., Evansville, Ind. Berry-box	361,557	Apr. 19	1652	428	39	325
Thompson, George C., Darien, Ga. Fruit-picker	363,437	May 24	1928	506	39	859
Thompson, George H., Reading, Pa. Live-stock-releasing device	355,668	Jan. 4	505	134	38	98
Thompson, George L. (See Dunn, Rufus P., assignor.)						
Thompson, Henry R. (See Stickney, Allison M., assignor.)						
Thompson, J. Hurd, and O. H. Curtis, Minneapolis, Minn. Fastener for rubber boots or shoes	360,491	Apr. 5	138	34	39	26
Thompson, James M., San Francisco, Cal. Mining-car	360,930	Apr. 12	758	199	39	147
Thompson, Jesse C. and W. L., Ormanville, Iowa. Folding box or crate	363,700	May 24	2321	602 603	39	935
Thompson, John, Minneapolis, Minn. Lumber-register	364,063	May 31	2337	736	39	1040
Thompson, John, Brooklyn, N. Y. Apparatus for irrigating purposes	375,021	Dec. 20	1243	325	41	1304
Thompson, John C. (See Moore and Thompson.)						
Thompson, John L., Minneapolis, Minn., assignor of five-eighths to W. A. Bennet, St. Louis, Mo., and E. McNamee, St. Paul, Minn. Hub-attaching device	372,392	Nov. 1	162	46	41	500
Thompson, John L., Minneapolis, Minn., assignor of five-eighths to W. A. Bennet, St. Louis, Mo., and E. McNamee, St. Paul, Minn. Wagon-axle	372,581	Nov. 1	440	118	41	553
Thompson, John W., and J. W. Gorton, Manchester, county of Lancaster, England. Braided trimming	358,233	Feb. 22	2159	570	38	846
Thompson, Joseph, Willesden, and J. H. Bryant, Westminster, county of Middlesex, England. Artificial stone	359,908	Mar. 22	2214		38	1340
Thompson, La Marcus A., Philadelphia, Pa. Elevated gravity and cable railway	367,252	July 26	2066	557 558 559	40	415
Thompson, Lyman G., and A. H. Isham, assignors to T. Isham & Hooker, San Francisco, Cal. Combined baling-press and feeder	363,095	May 17	1459	386 387	39	759
Thompson, Melchesedeck Y., assignor of one-half to R. R. Ross, Arkadelphia, Ark. Railway-tie	360,397	Mar. 29	2983	756	38	1487
Thompson, Michael, Goodrich, Kans. Lard, fruit, and oil press	367,865	Aug. 9	769	207	40	606
Thompson, N. C. (See Fenniken, Theodore M., assignor.)						
Thompson, Noble E., Jr., Clark's Mills, Pa. Wagon-brake	358,633	Mar. 1	317	76	38	962
Thompson, Norman J., et al. (See Davis, Daniel, assignor.)						
Thompson, Oren C., Jr., Metamora, Mich. Oil or gasoline can	368,983	Aug. 30	2373	631	40	939
Thompson, Ralph P., Springfield, Ohio. Steering-gear for traction-engines	374,016	Nov. 29	2596	697	41	994
Thompson, Robert H., et al. (See Shaw, Charles H., assignor.)						
Thompson, Robert H. (See Smith and Thompson.)						
Thompson, Robert K., Clio, Tex. Cotton-packer	370,829	Oct. 4	103	28	41	22
Thompson, Robert P. (See Thompson, William P. and R. P.)						
Thompson, Samuel. (See Dixon and Thompson.)						
Thompson, Sidney C., Brooklyn, N. Y. Leaf-holder for books, pamphlets, &c	369,217	Aug. 30	2682	712 713	40	999
Thompson, Thomas, Edenton, N. C., assignor of one-third to A. Rutherford, Washington, D. C. Fish-trap	361,470	Apr. 19	1543	399	39	303
Thompson, Thomas K., assignor to H. A. Streeter, Chicago, Ill. Shutter-fastener	371,641	Oct. 18	1274	331	41	267
Thompson, Thomas R., New Haven, Conn. Toy game	375,513	Dec. 27	1904	498	41	1441
Thompson, Tom, et al. (See Dixon and Thompson, assignors.)						
Thompson, Wesley M., Texarkana, Ark. Fifth-wheel	369,268	Aug. 30	2749	733	40	1013
Thompson, William H. (See Pratt, Lewis M., assignor.)						
Thompson, William J., New York, N. Y. Fastening device for scarfs, neckties, &c	362,334	May 3	365	101	39	545
Thompson, William J., New York, N. Y. Glove-fastener	369,893	Sept. 13	815	216	40	1197
Thompson, William L. (See Thompson, Jesse C. and W. L.)						
Thompson, William P., et al. (See McIlvenna and Rollason, assignors.) (Reissue.)						
Thompson, William P. (See Owen, Owen J., assignor.)						
Thompson, William P. and R. P., Philadelphia, Pa. Radiator for heating air	370,830	Oct. 4	105	29	41	22
Thompson, Woodman, Ireton, Iowa. Marking attachment for corn-planters	367,468	Aug. 2	151	43	40	481
Thoms, William A., assignor to Bright Platinum Plating Company, (limited,) London, county of Middlesex, England. Deposition of platinum by electricity	367,731	Aug. 2	578		40	560
Thomson, Archie, Chattanooga, Tenn. Balanced slide-valve	361,382	Apr. 19	1427	368	39	281
Thomson & Co., Judson L. (See Thomson and Unbehend, assignors.)						
Thomson & Co., Judson L. (See Unbehend, Jacob J., assignor.)						
Thomson, Elihu, Lynn, Mass. Electric-arc lamp	356,903	Feb. 1	226	63	38	463
Thomson, Elihu, Lynn, Mass. Electro-magnetic cut-off	360,123	Mar. 29	2587	656	38	1415
Thomson, Elihu, Lynn, Mass. Automatic cut-off	360,124	Mar. 29	2590	656	38	1415
Thomson, Elihu, Lynn, Mass. System of electric distribution	360,125	Mar. 29	2592	657	38	1416
Thomson, Elihu, Lynn, Mass. Electric switch	363,183	May 17	1580	416	39	785
Thomson, Elihu, Lynn, Mass. Automatic commutator-adjuster	363,184	May 17	1583	417	39	786
Thomson, Elihu, Lynn, Mass. Alternating-current electric motor	363,185	May 17	1585	417	39	786
Thomson, Elihu, Lynn, Mass. Alternating-current motor device	363,186	May 17	1588	417 418	39	786
Thomson, Elihu, Lynn, Mass. Regulator for dynamo-electric machines and motors	367,470	Aug. 2	154	44	40	481
Thomson, Elihu, Lynn, Mass. Coupling compound dynamo-electric machines	367,471	Aug. 2	156	44	40	481
Thomson, Elihu, Lynn, Mass. Coupling dynamo-electric machines	367,866	Aug. 9	770	208	40	606
Thomson, Elihu, Lynn, Mass. Dynamo-electric machine or motor	369,754	Sept. 13	599	163	40	1157
Thomson, Elihu, Lynn, Mass. Regulating device for alternate-current circuits	370,573	Sept. 27	1833	488	40	1400

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Thomson, Elihu, Lynn, Mass. System of electric distribution for alternating currents	372,501	Nov. 1	315	86.87	41	530
Thomson, Elihu, Lynn, Mass. Electric welding	375,022	Dec. 20	1246	325	41	1304
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Pump for producing high vacua	358,131	Feb. 22	2022	531	38	819
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. System of electric distribution	360,122	Mar. 29	2582	{ 655 656	{ 38	1414
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric-arc lamp	365,553	June 28	1981	{ 516 517	{ 39	1489
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. System of electric distribution	367,469	Aug. 2	152	43, 44	40	481
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric motor	373,108	Nov. 15	1243	331	41	719
Thomson, Elihu, New Britain, Conn., assignor to Thomson-Houston Electric Company, Boston, Mass. Armature for dynamo-electric machines	356,902	Feb. 1	224	62	38	463
Thomson, Elihu, and E. W. Rice, Jr., Lynn, Mass. Electric-arc lamp	370,572	Sept. 27	1829	487	40	1399
Thomson, Evert M., Evansville, Ind. Enameled ware	355,486	Jan. 4	252	66	38	51
Thomson, Frank M., New York, N. Y., assignor to Shields & Brown, Chicago, Ill. Non-conducting covering for pipes	366,354	July 12	826	222	40	163
Thomson, Frederick, Montreal, Quebec, Canada. Hanger for electric lamps	365,414	June 28	1765	458	39	1446
Thomson, Frederick W. (See Whitley, Thomson, and Hoyle.)						
Thomson, George G. (See Banks, Charles W., assignor.)						
Thomson, George R., Gouverneur, N. Y. Disk-harrow	359,909	Mar. 22	2215	557	38	1340
Thomson, George W., Grove City, Pa. Motor for churns	362,797	May 10	1045	284	39	674
Thomson-Houston Electric Company. (See Houston, Edwin J., assignor.)						
Thomson-Houston Electric Company. (See Thomson, Elihu, assignor.)						
Thomson, John. (See Lambert, Frank, assignor.)						
Thomson, John, Brooklyn, N. Y. Rotary water-meter	372,047	Oct. 25	1891	488	41	395
Thomson, John, Brooklyn, N. Y., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Intermitting circular feed-motion	360,740	Apr. 5	488	124	39	91
Thomson, John, Brooklyn, N. Y., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Positive bridge-action for platen printing-presses	367,867	Aug. 9	770	208	40	606
Thomson, John, Brooklyn, N. Y., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Printing-press	372,993	Nov. 8	1066	{ 284 285 286	{ 41	676
Thomson, John, Brooklyn, N. Y., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Bridge-spring action for oscillating-platen presses	373,571	Nov. 22	1970	524	41	863
Thomson, John, Brooklyn, assignor to Water-Waste Prevention Company, New York, N. Y. Diaphragm water-meter	358,508	Mar. 1	123	{ 30 31 32	{ 38	926
Thomson, John, and F. Lambert, Brooklyn, N. Y.; said Lambert assignor to said Thomson. Disk water-meter	375,023	Dec. 20	1247	326	41	1304
Thomson, John A., Jr., et al. (See Roop, Frank, assignor.)						
Thomson, Judson L., and J. J. Unbehend, assignors to J. L. Thomson & Co., Syracuse, N. Y. Riveting-machine	363,921	May 31	2630	{ 683 684	{ 39	998
Thomson, Judson L., and J. J. Unbehend, assignors to J. L. Thomson & Co., Syracuse, N. Y. Spring-clasp	368,433	Aug. 16	1586	423	40	771
Thomson, Judson L., and J. J. Unbehend, assignors to J. L. Thomson & Co., Syracuse, N. Y. Washer-plate and rivet for arctics	368,560	Aug. 16	1771	471	40	805
Thomson, Langdon & Co. (See Baldwin, Byron, assignor.)						
Thomson, McLeod W., Altoona, Pa. Chair for railway-rails	371,862	Oct. 18	1610	416	41	335
Thomson, Metellus, Kenton, Ohio. Salt-cellar	374,508	Dec. 6	482	125	41	1139
Thomson, Robert W., and E. M. Phelps, Lynn, Mass., assignors to Consolidated Button Hole Finishing Machine Company, Nashua, N. H. Button-hole piece for boots or shoes	375,581	Dec. 27	2011	522	41	1461
Thorn, Frank M., Orchard Park, N. Y. Potato-digging machine	366,044	July 5	409	111	40	77
Thorn, Frederick, Wilkes-Barré, Pa. Bottle-stopper	365,554	June 28	1984	517	39	1489
Thorn, Jacob S., Philadelphia, Pa. Metallic shingle or roofing-plate	361,031	Apr. 12	920	233	39	175
Thorn, Jacob S., Philadelphia, Pa. Metallic hip-roll or angle-bead	370,167	Sept. 20	1244	331	40	1284
Thorn, Solomon P. (See Crawford, Charles, assignor.)						
Thorn, Thomas B., Vincennes, Ind. Gate	358,760	Mar. 1	497	{ 121 122	{ 38	996
Thornburgh, William, Elyria, Ohio. Grindstone-frame	373,254	Nov. 15	1473	389	41	759
Thornburgh, William, Elyria, Ohio. Hoisting and conveying machine	373,255	Nov. 15	1474	390	41	760
Thornburgh, William P., New Market, Tenn. Marine propulsion	362,556	May 10	683	191	39	609
Thorne, Edwin, et al. (See Roser, Harry, assignor.)						
Thorne, Edwin, et al. (See Treacy, Frank H., assignor.)						
Thorne, Joseph, Port Richmond, N. Y. Type setting and distributing machine	372,186	Oct. 25	2094	{ 537 538	{ 41	433
Thorne, Joseph, Port Richmond, N. Y. Type setting and distributing machine	372,187	Oct. 25	2099	{ 539 540	{ 41	434
Thornton, Francis E., et al. (See Van Strait, Andrew, assignor.)						
Thornton, James, et al. (See Purdy, Albert L., assignor.)						
Thornton, Stephen M., et al. (See Van Strait, Andrew, assignor.)						
Thornton, William, St. John, Ill. Mining-drill	367,472	Aug. 2	156	45	40	482
Thornton, William H., Malta Bend, Mo. Automatic brake	374,379	Dec. 6	298	78	41	1103
Thorp, George W., Conway Springs, Kans. Clamp for holding plowshares	359,109	Mar. 8	1002	258	38	1095
Thorp, Henry H., Cleveland, Ohio. Printing-press	359,189	Mar. 8	1093	{ 284 285	{ 38	1112
Thorp, James H., New York, N. Y. Phosphorescent paint	362,860	May 10	1122	.....	39	689
Thorpe, Edward E., New York, N. Y. Sachet	361,098	Apr. 12	1014	256	39	194
Thorpe, Willard G., St. Paul, Minn. Hitching device	375,227	Dec. 20	1528	402	41	1360
Thorrard, Jean, et al. (See Bonnet, Antoine, assignor.)						
Thorsen, Theodor, Arendal, Norway. Bottom-scraper for vessels	374,279	Dec. 6	145	38	41	1075
Thorson, Thor. O., assignor to himself, M. W. and P. S. Peterson, Elliott, Ill. Gopher cultivator	375,514	Dec. 27	1906	498	41	1442
Thorud, Marinus S., Chicago, Ill. Latch	365,281	June 21	1568	408	39	1395
Thowless, Orlando M., Newark, N. J. Extracting aluminium	370,220	Sept. 20	1313	.....	40	1296
Threlfall, Thomas, assignor of one-half to A. Mack, San Francisco, Cal. Syringe	368,627	Aug. 23	1860	497	40	831
Thresher, Harry, London, county of Middlesex, England, assignor to A. H. Overman, Boston, Mass. Velocipede	366,703	July 19	1314	353	40	266
Throckmorton, Ada M., Chillicothe, Ohio. Broiler	364,612	June 7	568	153	39	1195
Throckmorton, John A., Sidney, Ohio. Artificial teeth	365,764	June 28	2297	597	39	1547
Thull, Nicholas, Jr., and N. Weber, Maryville, Mo. Thrashing-machine	369,570	Sept. 6	355	98	40	1101
Thum, Hugo, Grand Rapids, Mich. Holder for labels, checks, and the like	374,509	Dec. 6	483	126	41	1139
Thummel, Charles B., and D. Mitchell, Axtell, Kans. Halter	357,643	Feb. 15	1317	347	38	685

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Thurber, Milton R., Carbondale, and R. B. Brockway, Scranton, Pa. Car-coupling.....	363,490	May 24	2012	525	39	877
Thurber, William, and A. Norling, Chicago, Ill. Horse-collar.....	372,439	Nov. 1	228	64	41	513
Thurman, Phillip, New Florence, Mo. Drag-saw.....	366,899	July 19	1575	421	40	314
Thurston, Franklin A. (See Schoonmaker, Edward T., assignor.)						
Thurston, Horace, assignor to J. C. and C. H. Schott, Providence, R. I. Shoe-lace-tipping machine.....	373,865	Nov. 29	2386	642	41	953
Thwing, Clinton E., <i>et al.</i> (See Kendall, Elton P., assignor.)						
Thywissen, Francis, <i>et al.</i> (See Holroyd, John, assignor.)						
Tibbetts, James H., Brunswick, Me. Rein-guard.....	374,813	Dec. 13	920	240	41	1235
Tibbits, William H., Crab Orchard, Nebr. Thill-coupling.....	368,119	Aug. 9	1127	299	40	673
Tibbits, William H., Crab Orchard, Nebr. Car-coupling.....	371,392	Oct. 11	934	240	41	189
Tibbles, George N., Jersey City, N. J. Truss.....	364,738	June 14	742	197	39	1236
Tice, Lorenzo F. (See Kimball, Hervey Z., assignor.)						
Tichenor, Anson C., San Francisco, Cal. Electrolyte.....	363,562	May 24	2119	.....	39	897
Tichenor, Robert R., and P. Walker, Henning, Minn. Stump-puller.....	357,347	Feb. 8	868	229	38	592
Tichenor, Robert R., and P. Walker, Henning, Minn. Wagon end-gate.....	369,894	Sept. 13	816	217	40	1198
Tickell, John, Cleveland, Ohio. Caliper-gage.....	359,295	Mar. 15	1248	324	38	1147
Tickell, John, Cleveland, Ohio. Caliper-gage.....	367,473	Aug. 2	158	45	40	482
Tiebout, John, Brooklyn, N. Y. Anchor.....	358,306	Feb. 22	2260	596	38	865
Tiede, August F., and J. Wilcox; said Wilcox assignor to D. E. Wilcox, Preston, Iowa. Check-row planter.....	361,558	Apr. 19	1653	428	39	325
Tiedt, Fred, Sr., Euclid, Minn. Car-coupling.....	374,717	Dec. 13	782	205	41	1209
Tiepke, Henry E., Pawtucket, R. I. Can.....	374,380	Dec. 6	299	79	41	1103
Tiernan, James M., Asheville, N. C. Automatic fire-extinguisher for railway-cars.....	371,642	Oct. 18	1276	331	41	267
Tierney, John P., Oakland, Cal. Transom-ventilator.....	358,089	Feb. 22	1954	516	38	808
Tierra Seca Mining Company. (See Card, William L., assignor.)						
Tiers, Alexander H., <i>et al.</i> (See Pendleton, John H., assignor.)						
Tiers, Alexander H., <i>et al.</i> (See Weber, Theodor R. A., assignor.)						
Tiers, Cornelius, <i>et al.</i> (See Pendleton, John H., assignor.)						
Tiers, Cornelius, <i>et al.</i> (See Weber, Theodor R. A., assignor.)						
Tiffany, Eli, Bennington, Vt. Spring for sinkers of knitting-machines.....	374,280	Dec. 6	146	39	41	1075
Tiffany, Joseph C., and J. R. De Mier, Las Cruces, assignors to De Mier Electric Train Signal Company, Albuquerque, N. Mex. Ter. Electric train-signal apparatus.....	373,160	Nov. 15	1331	354	41	734
Tiffany, William, Creswell, Oreg. Railway pump-motor.....	375,024	Dec. 20	1250	327	41	1305
Tift, James W., <i>et al.</i> (See Ames, Charles H., assignor.)						
Tiger, John N. (See Harriss and Tiger.)						
Tilden, Burt E., Youngstown, Ohio. Pocket stay and holder.....	367,939	Aug. 9	882	240	40	627
Tilden, Henry, Minneapolis, Minn. Heating-stove.....	359,696	Mar. 22	1876	476	38	1280
Tilden, Henry, Minneapolis, Minn. Heating-stove.....	359,697	Mar. 22	1877	477	38	1281
Tilden, Henry, Minneapolis, Minn. Heating-stove.....	359,698	Mar. 22	1880	477	38	1281
Tilden, Henry, Minneapolis, Minn. Ventilating and changing the temperature of buildings.....	375,228	Dec. 20	1529	402	41	1360
Tilden, James A., Hyde Park, Mass. Water-meter with revolving non-rotating piston.....	357,159	Feb. 1	618	159	38	535
Tilden, James A., Hyde Park, assignor to Hersey Brothers, South Boston, Mass. Railway-switch.....	371,994	Oct. 25	1801	466	41	381
Tilden, James A., Hyde Park, Mass., assignor to Hersey Meter Company, Portland, Me. Rotary water-meter.....	371,643	Oct. 18	1277	331	41	267
Tilden, James A., Hyde Park, Mass., assignor to Hersey Meter Company, Portland, Me. Rotary water-meter.....	372,440	Nov. 1	230	64	41	513
Tilden, James A., Hyde Park, Mass., assignor to Hersey Meter Company, Portland, Me. Rotary water-meter.....	375,108	Dec. 20	1374	357	41	1328
Tilghman, Richard A., Philadelphia, Pa. Wire rope.....	370,221	Sept. 20	1314	350	40	1296
Tiller, Charles, Milford, Mass. Bevel.....	368,434	Aug. 16	1588	424	40	771
Tilley, Edwin F., Brooklyn, N. Y., assignor to F. A. Hall, Montclair, N. J. Folding cot.....	375,303	Dec. 20	1629	427	41	1379
Tilley, James W., Boston, Mass. Foot-rest.....	366,437	July 12	923	250	40	183
Tilley, John S., West Troy, N. Y. Ladder.....	355,574	Jan. 4	363	97, 98	38	73
Tillinghast, Lodowick H. (See Costello, Harry, assignor.)						
Tillinghast, Pardon W., Providence, R. I. Button.....	359,648	Mar. 22	1808	460	38	1267
Tillman, David E., Atlanta, Ga. Umbrella-support.....	365,282	June 21	1570	408	39	1396
Tillman, William A. (See Sims, Abner Z., assignor.)						
Tillotson, Frederick. (See Hulford and Tillotson.)						
Tillson, George W., Garnett, Kans. Swinging gate.....	355,847	Jan. 11	772	203	38	157
Tilman, John F., Brooklyn, N. Y. Dumb-waiter.....	368,256	Aug. 16	1344	355	40	722
Tilt, Joseph E., Lake View, Ill. Button-fastening.....	362,193	May 3	184	55	39	509
Tilton, Hubbard W. (See Warren, Benjamin F., assignor.)						
Tilton, John, San Francisco, Cal. Sewer gas-trap.....	368,793	Aug. 23	2097	555	40	875
Tilton, John, San Francisco, Cal. Safety attachment for railway-car stoves.....	375,229	Dec. 20	1532	402	41	1361
Tilton, Smilie, San Geronio, Cal. Butter-wrapper.....	356,180	Jan. 18	1269	335	38	258
Timby, Theodore F., Brooklyn, N. Y. Potato-masher.....	357,693	Feb. 15	1390	366	38	698
Timby, Theodore F., Brooklyn, N. Y. Sash-fastener.....	360,064	Mar. 29	2482	631	38	1397
Timby, Theodore F., Brooklyn, N. Y. Combined sheathing and lathing.....	368,694	Aug. 23	1964	520	40	851
Timken, Henry, St. Louis, Mo. Vehicle-spring.....	361,244	Apr. 12	1237	315	39	235
Timmins, Lindsay, New Carlisle, Ohio. Car-coupling.....	365,415	June 28	1767	458	39	1446
Timmons, James K. P., Timmons, Tenn. Vehicle-brake.....	375,397	Dec. 27	1755	460	41	1411
Timmons, Leonard P. (See Roberge and Timmons.)						
Timmons, Thomas J., Godwin, Tenn. Wagon-brake.....	367,168	July 26	1938	523	40	390
Timms, Harvey N., Des Moines, Iowa. Cultivator.....	371,995	Oct. 25	1803	467	41	381
Timms, James, assignor of one-half to B. F. Rees, Columbus, Ohio. Car-axle box.....	358,583	Mar. 1	254	59	38	950
Timms, James, assignor of one-half to R. M. Round, Columbus, Ohio. Car-axle box.....	366,529	July 12	1055	287	40	210
Timms, James, assignor of one-half to R. M. Round, Columbus, Ohio. Car-coupling.....	373,422	Nov. 15	1734	457	41	808
Tincknell, Edward, New Swindon, county of Wilts, England. Valve-gear.....	358,996	Mar. 8	855	217	38	1066
Tindall, John W., Winfield, assignor to F. J. Lee, Englewood, Kans. Rope-measuring device.....	357,136	Feb. 1	584	150	38	528
Tingley, Charles E., <i>et al.</i> (See Andres, Albert, assignor.)						
Tingley Silvanus, and C. W. Stetson, Boston; said Stetson assignor to W. W. Anderson, Cambridgeport, Mass. Card-shuffling apparatus.....	373,953	Nov. 29	2511	675	41	976
Tinkham, Don Carlos H., Providence, R. I. Curtain-pull.....	368,312	Aug. 16	1418	375	40	737
Tinkham, Frank J., <i>et al.</i> (See Beck, Traugott, assignor.)						
Tinkham, George F., assignor of part to A. M. Phelps and G. B. Peck, Cedar Rapids, Iowa. Smoke-consuming furnace.....	371,804	Oct. 18	1520	392	41	317
Tinne, Theodore F. S., The Beeches, Hawkhurst, county of Kent, England. Construction of nests of drawers, &c.....	368,173	Aug. 9	1203	322	40	688
Tinnin, R. S. (See Young, James D., assignor.)						
Tinsman, John W., Kirksville, Mo. Photographic accessory.....	375,230	Dec. 20	1533	402	41	1361

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Tintrop, Henry, San Francisco, Cal. Window	356,857	Feb. 1	162	43	38	452
Tintrop, Henry, San Francisco, Cal. Necktie	363,862	May 31	2551	663	39	985
Tippin, Guy. (See Henne and Tippin.)						
Tirrell, Jacob P., Somerville, assignor to J. Z. Rogers, Winchester, Mass. Mail-box indicator	373,207	Nov. 15	1411	372	41	748
Tirrell, Jacob P., Somerville, Mass., assignor to Electric Gas Lighting Company, Portland, Me. Automatic circuit-opener	374,017	Nov. 29	2597	697	41	994
Tirrell, Jacob P., Boston, assignor to J. F. Emerson, Wakefield, G. O. Carpenter, Boston, and J. W. Carter, Newton, Mass. Electric signaling apparatus	370,831	Oct. 4	106	29, 30	41	22
Tischer, George W., Dayton, Ohio. Paper-bag holder	362,680	May 10	875	238	39	643
Tisdale, Charles D., assignor to J. Benson, Boston, Mass. Electric railway-signal	359,040	Mar. 8	908	231	38	1076
Tisdale, Wayland. (See Cately and Tisdale.)						
Tisdell, Samuel R. (See Morris, Tisdell, and Labar.)						
Titcomb, George O., assignor of one-half to B. Sargent and J. H. Cleary, Merrimac, Mass. Steam-valve	367,327	July 26	2176	585	40	435
Tittle, James, assignor of one-fourth to J. S. Tittle, Johnstown, Pa. Locking railway-rails to their fish-plates at the rail-joints	356,904	Feb. 1	228	63	38	463
Tittle, John S. (See Tittle, James, assignor.)						
Titus, Charles W., assignor of one-half to J. O. Colladay, Philadelphia, Pa. Cutter-head	371,529	Oct. 11	1117	291	41	227
Titus, Erastus, Jr., New York, N. Y. Fishing-line reel	369,622	Sept. 6	432	121	40	1117
Titus, Herman P., Lisbon, assignor, by mesne assignments, to himself and J. C. Mitchell, Lancaster, N. H. Car-starter	373,208	Nov. 15	1413	372	41	748
Tobey, Fred W., assignor of one-half to W. F. Lewis, Waterbury, Conn. Clasp	374,762	Dec. 13	845	222	41	1221
Tobey, Henry A., Lima, Ohio. Steam-engine	369,303	Aug. 30	2802	747	40	1023
Tobey, Leroy, Penn Yan, N. Y. Method of and apparatus for making fibrous vessels, such as pails, tubs, &c.	368,794	Aug. 23	2098	{ 555 556 }	{ 40 40 }	{ 875 875 }
Tobey, William L., Boston, Mass. Valve-reversing mechanism	359,649	Mar. 22	1809	460	38	1267
Tobie, Byron B., Franklin Falls, N. H. Pulp-beating engine	364,687	June 14	669	179	39	1223
Tobin, William H. (See Greer, John W., assignor.)						
Tocin, Joseph, Buffalo, N. Y. Car-coupling	374,763	Dec. 13	846	222	41	1221
Todd, Benjamin F., assignor of one-half to L. Woodson, Madisonville, Ky. Sprout-puller ..	367,328	July 26	2177	585	40	435
Todd & Co., Edward. (See Freer, Charles S., assignor.)						
Todd, Cornelius B., assignor to Campbell Burner Company, (limited,) Pittsburg, Pa. Gas-burner	370,107	Sept. 20	1152	305	40	1265
Todd Cotton Harvester Company. (See Todd, George N., assignor.)						
Todd, Edward A., Brooklyn, N. Y. Attaching elastic straps to waistbands	365,283	June 21	1570	409	39	1396
Todd, George N., New York, N. Y., assignor to Todd Cotton Harvester Company, of Illinois. Cotton-harvester	367,075	July 26	1807	488	40	366
Todd, Herbert L., Washington, D. C. Telephone	368,628	Aug. 23	1861	497	40	831
Todd, Marquis J., Corning, N. Y. Plow	374,565	Dec. 6	572	150	41	1157
Todd, Wilmer L., Somerville, assignor of one-half to S. Hughes, Charleston, S. C. Oscillating engine	357,248	Feb. 8	739	192	38	567
Toedt, Emanuel B., and E. P. Burnham, Albany, N. Y. Instrument for cutting off glass tubes	363,563	May 24	2119	550	39	897
Toense, Carl G., Cleveland, Ohio. Differential hoisting-gear	366,278	July 12	724	197	40	144
Toepfer & Sons, Wenzel. (See Toepfer, Wenzel, assignor.)						
Toepfer, Wenzel, assignor to W. Toepfer & Sons, Milwaukee, Wis. Machine for bending angle and other bars	357,160	Feb. 1	620	160	38	535
Toledo Mower and Reaper Company. (See Davis, John S., assignor.)						
Tolhurst, Charles H., et al. (See Van Wie, Byron, assignor.)						
Tollner, Charles, Jr., Brooklyn, N. Y. Mounting pictures and analogous articles	371,004	Oct. 4	402	100	41	80
Tolman, A. K., et al. (See Howe, Patrick, assignor.)						
Tolman, Gayger D., assignor to himself and L. D. Roberts, Shawano, Wis. Flower-pot and flower-pot holder	365,555	June 28	1985	517	39	1489
Tolson, James C. (See Morgan and Tolson.)						
Tomassek, Romeo P., assignor to himself and M. H. Vennard, New York, N. Y. Rein-holder	355,900	Jan. 11	863	225	38	175
Tomlinson, John H. and W. H., Rutherford, Tenn. Cotton-press	365,765	June 28	2298	597	39	1547
Tomlinson, William H. (See Tomlinson, John H. and W. H.)						
Tompkins, Albert and I., Troy, N. Y. Circular-knitting machine	360,931	Apr. 12	762	199	39	148
Tompkins, Alfred H., Brooklyn, N. Y. Oar-lock	362,405	May 3	461	127	39	565
Tompkins Brothers. (See Austin, Charles D., assignor.)						
Tompkins, George S., Detroit, Mich. Pillow-sham holder	364,319	June 7	153	43	39	1118
Tompkins, Ira. (See Tompkins, Albert and I.)						
Tompkins, Samuel E., Newark, N. J. Harness-saddle tree	359,234	Mar. 8	1165	303	38	1125
Tonge, John, Rochdale, county of Lancaster, England. Fire-extinguisher	363,187	May 17	1591	418	39	787
Tongue, T. W., et al. (See Gray and Chastain, assignors.)						
Tonkin, John J., Oswego, N. Y. Throttle-valve	357,511	Feb. 8	1099	290	38	635
Tonkin, John J., assignor to T. Kingsford, Oswego, N. Y. Valve mechanism	360,741	Apr. 5	490	125	39	91
Tonkin, John J., assignor to T. Kingsford, Oswego, N. Y. Steam-valve	362,406	May 3	463	128	39	565
Tonndorff, Charles H., assignor to H. Kuhn and M. A. Seed Dry Plate Company, St. Louis, Mo. Photographic negative-plate	375,231	Dec. 20	1533	.....	41	1361
Tonns, Lewis N., New Brighton, assignor of two-thirds to G. H. Allen, New York, and E. H. Hall, Brooklyn, N. Y. Support for gun-carriages	371,530	Oct. 11	1118	{ 291 292 }	{ 41 41 }	{ 227 227 }
Tooker, Maude W., New York, N. Y. Bustle	371,905	Oct. 18	1677	433	41	347
Toole, James O. (See Shaw and Toole.)						
Tooley, Samuel E., Cazenovia, assignor of one-half to Boomer & Boschert Press Company, Syracuse, N. Y. Pomace-laying attachment for wine or cider presses	372,048	Oct. 25	1893	489	41	395
Toomey, Humphrey, Leete's Island, Conn. Bush-hammer	358,090	Feb. 22	1955	516	38	808
Toomey, Samuel, Canal Dover, Ohio. Vehicle-shaft	366,530	July 12	1056	287	40	210
Toomey, Samuel, Canal Dover, Ohio. Vehicle-axle	367,076	July 26	1809	488	40	366
Topham, Charles R. F. (See Herrick and Topham.)						
Topmiller, Bennard, assignor of two-thirds to S. Obermayer and J. A. Heinsheimer, Cincinnati, Ohio. Cut-off valve	355,627	Jan. 4	431	119	38	85
Topmiller, Bennard, assignor of two-thirds to S. Obermayer and J. A. Heinsheimer, Cincinnati, Ohio. Cut-off valve	355,628	Jan. 4	434	120	38	86
Toppan, James S. (See Zimmerman, Arnold W., assignor.)						
Torgeson, Anthony, Barnes, Dak. Ter. Pulverizing attachment for seeders	369,481	Sept. 6	229	64	40	1077
Torkelson, Reinhard T., Worcester, assignor to Springfield Bicycle Manufacturing Company, Boston, Mass. Treadle for bicycles	366,279	July 12	725	197	40	145
Torrance, Charles E., Holyoke, Mass. Journal-box	373,866	Nov. 29	2388	642	41	953
Torrance, George J., Newark, N. J. Machine for balling slivers	370,574	Sept. 27	1835	{ 488 489 }	{ 40 40 }	{ 1401 1401 }

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Torrance, John, Chetona, Kans. Thill-coupling.....	364,144	May 31	2958	768	39	1061
Torrey, Francis B., Bath, Me. Pulley-sheave.....	356,670	Jan. 25	1962	515	38	398
Torrey, Herbert, <i>et al.</i> (See Barton, William H. H., assignor.)						
Torrey Razor Company, J. R. (See Turner, Joseph, assignor.)						
Torsion Balance and Scale Company. (See Kent, William, assignor.)						
Totman, Edsell, La Grange, Ill. Dovetailing-machine.....	374,018	Nov. 29	2600	697	41	994
Totten, Albert S. (See Totten, Francis J. and A. S.)						
Totten, Francis J. and A. S., Pittsburg, Pa. Mechanical toy.....	369,623	Sept. 6	434	121	40	1117
Totten, John E., Attleborough, Mass. Button.....	375,582	Dec. 27	2012	523	41	1461
Totten, John E., North Attleborough, Mass. Button.....	375,583	Dec. 27	2013	523	41	1461
Tougas, George S., and F. Fournier, Grafton, Mass. Washing-machine.....	370,908	Oct. 4	247	63	41	49
Touhy, Cornelius V., Locksburg, Ark. Ditching-machine.....	375,025	Dec. 20	1251	327	41	1305
Touhy, John L. (See Bartlett and Touhy.)						
Toulmin, Morton, Baltimore, Md. Druggist-alarm.....	359,581	Mar. 15	1695	432	38	1230
Toulmin, Morton, Washington, D. C. Cotton-gin.....	362,125	May 3	100	31, 32	39	493
Toulouse, Bernard, and J. Delorieu, San Francisco, Cal. Wine-press.....	367,122	July 26	1874	{ 507 508 }	{ 40 40 }	{ 378 378 }
Tourgée, Albion W., Mayville, N. Y. Fence-post.....	369,371	Sept. 6	88	28	40	1051
Tourgée, Albion W., assignor to E. K. Tourgée, Mayville, N. Y. Frame for portable structures.....	359,749	Mar. 22	1959	497	38	1294
Tourgée, Albion W., assignor to E. K. Tourgée, Mayville, N. Y. Harness.....	370,909	Oct. 4	248	63, 64	41	49
Tourgée, E. K. (See Tourgée, Albion W., assignor.)						
Tourné, Jérôme E., assignor of one-third to J. V. Charpantier, New Orleans, La. Apparatus for cooling car-axle boxes.....	360,978	Apr. 12	838	215	39	160
Tousley, Miron G., assignor to A. Patrick, Englewood, Ill. Shovel.....	357,970	Feb. 15	1780	467	38	771
Touya, Baptiste, Fils, Tarbes, France. Grinding-mill.....	364,145	May 31	2958	768	39	1061
Towar, George W., Jr., Detroit, Mich. Purifying and preserving butter.....	367,940	Aug. 9	884	240	40	628
Tower, Arthur W., Ridge Hill, Mass. Machine for gaging toe-caps and marking vamps.....	372,644	Nov. 1	533	146	41	572
Tower, Beauchamp, Westminster, county of Middlesex, England. Apparatus for maintaining the constant plane in a floating vessel.....	366,438	July 12	923	251	40	183
Tower, Caleb E., assignor to Economist Plow Company, South Bend, Ind. Sulky-plow.....	359,190	Mar. 8	1099	286	38	1113
Tower, Daniel L., Brooklyn, N. Y. Folding guard for revolvers.....	366,531	July 12	1057	287	40	210
Tower, George W., Boston, Mass. Metal-boring tool.....	359,296	Mar. 15	1250	324	38	1148
Tower, John J., Brooklyn, N. Y. Handcuff.....	356,215	Jan. 18	1316	348	38	267
Tower, Orville R., La Crosse, Wis. Can for measuring and retailing milk.....	368,257	Aug. 16	1345	355	40	722
Tower, Otis F. (See Parker, Blood, and Tower.)						
Towle, Abner S., East Rochester, N. H. Lifting-jack.....	364,974	June 14	1112	290	39	1303
Towles, Henry O., <i>et al.</i> (See Baden, Thomas E., assignor.)						
Town, Charles N., Shaytown, Mich. Fence.....	359,297	Mar. 15	1251	325	38	1148
Townley, Lynn P., and W. J. Washburn, St. Louis, Mo. Instrument to assist hearing.....	364,975	June 14	1113	290	39	1303
Towns, Elmer, Kent, Iowa. Stalk-cutter.....	358,368	Feb. 22	2340	620	38	880
Townsend & Co., W. P. (See Berchtold, Rudolf, assignor.)						
Townsend, Edmund, Oak Grove, assignor of one-half to B. W. Cook, Northville, Mich. Gate.....	364,193	May 31	3026	786	39	1075
Townsend, Frank H. (See Jones, James D., assignor.)						
Townsend, John J., Portsmouth, Va. Stern-bearing for propeller-shafts.....	359,298	Mar. 15	1252	325	38	1148
Townsend, Matthew, deceased; G. F. Sumner administrator and assignor to M. T. Sumner, Canton, Mass. Needle for knitting-machines.....	367,767	Aug. 2	628	169	40	569
Townsend, Robert A., Sibi, Beloochistan, India. Vehicle-wheel.....	364,872	June 14	966	254	39	1276
Townsley, James L., Vincennes, Ind. Coin-counter with automatic locking device.....	359,523	Mar. 15	1598	409	38	1213
Towse, William R., Louisville, Ky. Saw-handle.....	364,452	June 7	351	96	39	1155
Towson, Charles M., Washington, D. C. Show-case for umbrellas.....	356,858	Feb. 1	163	44	38	452
Toy, James M. (See Toy, Thomas D., J. M., and N.)						
Toy, Nelson. (See Toy, Thomas D., J. M., and N.)						
Toy, Thomas D., J. M., and N., Cherryvale, Kans. Spring-equalizer for vehicles.....	365,884	July 5	179	45	40	36
Toye, William H. R., Philadelphia, Pa. Perfecting color-printing machine.....	364,976	June 14	1114	291	39	1303
Tozer, James H. and W., London, England. Securing railway-chairs and rail-clips to metallic sleepers.....	356,016	Jan. 11	1027	270	38	208
Tozer, William. (See Tozer, James H. and W.)						
Tozier, Charles C., Chelsea, assignor to W. J. Paine, Boston, Mass. Bridge-guard.....	374,882	Dec. 13	1017	266	41	1253
Trabue, Isaac H. (See Trabue, W. and I. H.)						
Trabue, Sarah W., Girard, Ill. Baling-press.....	367,868	Aug. 9	772	208	40	607
Trabue, Sarah W., Girard, Ill. Baling-press.....	375,584	Dec. 27	2014	{ 523 524 }	{ 41 41 }	{ 1461 1461 }
Trabue, William and I. H., Louisville, Ky. Planting-hoe.....	365,108	June 21	1319	349	39	1349
Tracy, Andrew F., and J. Winchell, New Haven, Conn. Canopy-supporting frame.....	368,359	Aug. 16	1478	393	40	749
Tracy, Edwin A., assignor to W. A. Aiken, Norwich, Conn. Display-frame.....	369,973	Sept. 13	947	250	40	1220
Tracy, Joseph R., Toledo, Ohio. Car-starter.....	368,695	Aug. 23	1965	521	40	851
Tracy, William P., Grand Rapids, Mich. Caster.....	357,945	Feb. 15	1743	455	38	764
Tracy, William P., Grand Rapids, Mich. Thill-coupling.....	374,019	Nov. 29	2602	698	41	995
Traer, John W. (See Baldwin, Doyle, and Thomas, assignors.)						
Trafton, Stephen P., Boston, Mass. Railway buffer-post.....	363,438	May 24	1929	506	39	859
Trahan, Godfrey, assignor of one-half to J. Mills, Brooklyn, N. Y. Ice-sawing machine.....	369,415	Sept. 6	143	41, 42	40	1059
Trainer, John W., Fort Wayne, Ind. Reed-organ.....	356,700	Jan. 25	2001	525	38	404
Transit Apparatus Company. (See Birgé, Isidore, assignor.)						
Trask, Charles H., Lynn, Mass. Boot and shoe sole and heel trimming machine.....	357,738	Feb. 15	1459	{ 381 382 383 }	{ 38 38 38 }	{ 711 711 711 }
Trask, Charles H., Lynn, Mass. Boot or shoe heel trimming machine.....	357,739	Feb. 15	1465	383	38	712
Trask, Charles H., Lynn, Mass. Heel-trimming machine.....	357,740	Feb. 15	1467	384	38	712
Trask, Charles H., Lynn, Mass. Heel-trimming machine.....	357,741	Feb. 15	1469	385	38	712
Trask, Charles H., Lynn, Mass. Heel-trimming machine cutter.....	357,742	Feb. 15	1470	{ 385 386 }	{ 38 38 }	{ 713 713 }
Trask, Charles H., Lynn, Mass. Sole or heel trimming machine.....	357,743	Feb. 15	1473	{ 386 387 }	{ 38 38 }	{ 713 713 }
Trask, Charles H., Lynn, Mass. Buffing-machine for the soles of boots or shoes.....	364,688	June 14	670	179	39	1223
Trask, Charles H., Lynn, Mass., assignor to Duplex Shoe Trimmer Company, Portland, Me. Making right and left rotary cutters.....	372,049	Oct. 25	1895	489	41	396
Trask, Charles H., Lynn, Mass., assignor to Duplex Shoe Trimmer Company, Portland, Me. Making rotary cutters.....	372,050	Oct. 25	1897	489	41	396
Trask, Clarence S., Lowell, assignor to National Spindle Step Company, Boston, Mass. Spindle-step. (Reissue).....	10,840	May 31	3055	795	39	1080
Trauernicht, Theodor H., Lead City, Dak. Ter. Electric amalgamator.....	358,002	Feb. 15	1825	480	38	779
Trauernicht, Theodore H., Lead City, Dak. Ter. Stamp-mill ore-screen.....	359,750	Mar. 22	1962	497	38	1294

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Traut, Justus A., New Britain, Conn. Trammel-point.....	365,031	June 14	1195	315	39	1317
Traver, Harrison, Brooklyn, and J. Weeks, New York, N. Y. Coupling	373,256	Nov. 15	1476	390	41	760
Travers, Vincent P., New York, N. Y. Hammock	363,096	May 17	1462	387	39	760
Travers, Vincent P., New York, N. Y. Hammock-chair.....	370,222	Sept. 20	1314	350	40	1297
Travis, Jerome, assignor of one-half to B. G. Swift, Clinton, Mich. Blackboard-eraser	365,356	June 21	1674	437	39	1417
Travis, Jerome, assignor to B. G. Swift and G. W. Van Gieson, Clinton, Mich. Blackboard-eraser	373,032	Nov. 8	1136	304	41	687
Travis, Jerome, assignor to H. E. Young and E. S. Knowles, North Adams, Mich. Wall-paper exhibitor	357,542	Feb. 8	1158	304	38	646
Travis, William H., assignor of one-half to P. Sanguineti and J. B. Daveggio, San José, Cal. Attachment for drums.....	366,355	July 12	828	222	40	163
Traxler, Cisco R., Hastings, Nebr. Hoisting apparatus.....	363,097	May 17	1462	388	39	760
Traxler, Edward, Dansville, N. Y. Potato-digger.....	363,098	May 17	1464	388	39	761
Traylor, Robert W., Richmond, Va. Valve, valve-seat, &c	355,487	Jan. 4	252	67	38	51
Traynor, J. H. (See Wuelfing, Fred, assignor.)						
Traynor, William J. H. (See Wuelfing, Fredrick, assignor.)						
Treacy, Frank H., Poughkeepsie, N. Y., assignor to Palmer Torpedo Company, Plainfield, N. J. Device for operating torpedo-signals	369,138	Aug. 30	2584	687	40	980
Treacy, Frank H., Poughkeepsie, N. Y., assignor to Palmer Torpedo Railway Signal Company, Plainfield, N. J. Railway-signal connection	375,398	Dec. 27	1756	460	41	1412
Treacy, Frank H., Poughkeepsie, assignor to J. H. Swift, Amenia, N. Y. Switch mechanism	369,820	Sept. 13	696	188	40	1175
Treacy, Frank H., Poughkeepsie, assignor to J. H. Swift, Amenia, and E. Thorne, Millbrook, N. Y. Compensating device for signaling apparatus.....	369,821	Sept. 13	698	188	40	1175
Treacy, Frank H., Poughkeepsie, assignor to J. H. Swift, Amenia, and E. Thorne, Millbrook, N. Y. Device for operating semaphore-blades	369,822	Sept. 13	699	188	40	1175
Treacy, Frank H., Poughkeepsie, assignor to J. H. Swift, Amenia, and E. Thorne, Millbrook, N. Y. Switch and signal mechanism.....	369,823	Sept. 13	700	189	40	1176
Treacy, Frank H., Poughkeepsie, assignor to J. H. Swift, Amenia, and E. Thorne, Millbrook, N. Y. Combined visual and audible signal for railways.....	369,895	Sept. 13	817	217	40	1198
Treadwell, George E., New Castle, Pa. Clay sharpening implement.....	361,559	Apr. 19	1655	428	39	325
Treat, Bryant A., Wallingford, Conn. Spring-vehicle	360,787	Apr. 5	550	143	39	104
Treat, Charles H., and A. B. Banghart, Georgetown, Del. Machine for making veneer dishes	360,181	Mar. 29	2676	{ 675 } { 676 }	{ 38 }	1431
Treat, James E., Boston, Mass. Pneumatic cash-carrier.....	367,769	Aug. 2	631	169	40	569
Treat, James E., assignor to Automatic Music Paper Company, Boston, Mass. Mechanical musical instrument	369,667	Sept. 6	492	136	40	1128
Treat, James M., Stockton, Me. Fish-trap	363,263	May 17	1683	441	39	804
Treban, Frank, assignor of one-half to C. Fischer, St. Louis, Mo. Self-cleansing filter.....	368,629	Aug. 23	1862	497	40	831
Trecy, Laurence J., assignor of one-half to T. Albes, St. Louis, Mo. Hot-air furnace	371,108	Oct. 4	535	136	41	106
Tregoning, John, Hartford, Conn. Electric-arc lamp	360,254	Mar. 29	2778	{ 706 } { 707 }	{ 38 }	1451
Tremaine, William B. (See Pain and Tremaine.)						
Tremoulet, Henry. (See Laclaverie, Bertrand, assignor.)						
Trenholm, Ezra W., assignor of one-half to F. Bigalow, Rockford, Ill. Pillow-sham holder	364,385	June 7	243	69	39	1135
Trenholm, Ezra W., assignor of one-half to F. Bigalow, Rockford, Ill. Holdback for vehicles.....	371,229	Oct. 11	702	180	41	147
Trenton Iron Company. (See Hewitt, William, assignor.)						
Trenton Lock and Hardware Company. (See Henssler, Charles, assignor.)						
Trested, Richard H., Jersey City, N. J. Making hats	367,253	July 26	2070	559	40	416
Tretheway, John, Jr., Stockton, Cal. Earth scraping and grading machine.....	369,824	Sept. 13	703	189	40	1176
Trexler, George W., Orbisonia, Pa. Heating apparatus	369,304	Aug. 30	2805	748	40	1024
Tribbey, Francis M., New Albany, Ind. Combined table and cot.....	362,470	May 3	564	156	39	583
Tribe, Thomas, Colorado Springs, Colo. Cigar or cigarette case.....	356,806	Feb. 1	88	25	38	440
Trickett, John W. (See Bell and Trickett.)						
Trigwell, James R., Brixton, county of Surrey, assignor to G. Watson, Middlesex, England. Velocipede.....	366,045	July 5	410	111	40	77
Trigwell, James R., Brixton, county of Surrey, assignor to G. Watson, Middlesex, England. Velocipede.....	366,046	July 5	411	111	40	78
Trigwell, James R., Brixton Rise, assignor to G. Watson, London, England. Velocipede.....	368,360	Aug. 16	1479	394	40	749
Trimble, Robert P., Oregon, Mo. Curtain-shade fixture.....	368,740	Aug. 23	2028	537	40	863
Trimble, Robert P., Oregon, Mo. Curtain-fixture	375,585	Dec. 27	2016	524	41	1462
Trinkle, John W., Kent, assignor of one-half to W. M. Copeland, Madison, Ind. Fence	370,027	Sept. 13	1029	271	40	1236
Tripler, Charles E., New York, N. Y. Amalgamator and separator.....	373,542	Nov. 22	1930	512	41	856
Tripp, Freeman L., Eau Claire, Wis. Music-holder.....	355,358	Jan. 4	92	25	38	19
Tripp, Henry A. (See Tripp, Walter and H. A.)						
Tripp, James, assignor of one-half to G. D. Garvie, New York, N. Y. Sewing-machine shuttle.....	361,337	Apr. 19	1360	350	39	269
Tripp, James, and G. D. Garvie, New York, N. Y. Shuttle for sewing-machines.....	361,338	Apr. 19	1362	350	39	269
Tripp, Seth D., Lynn, Mass. Car-spring.....	358,509	Mar. 1	128	32	38	927
Tripp, Walter and H. A., East Williamson, N. Y. Apple paring and coring machine.....	363,022	May 17	1359	{ 359 } { 360 }	{ 39 }	740
Tripp, William J., New York, N. Y. Locomotive-engine	369,482	Sept. 6	230	65	40	1077
Trissler, William H., assignor of one-half to J. P. Abbott, Cleveland, Ohio. Carpet-cleaner	371,109	Oct. 4	537	137	41	106
Triumph Bottle Washing Machine Company. (See Simonds, Nathan J., assignor.)						
Troller, Albert, assignor to Rockford Watch Company, Rockford, Ill. Watch-movement box	359,946	Mar. 22	2274	571	38	1351
Troller, George, Milwaukee, Wis. Brake for street-cars	363,777	May 24	2424	629	39	955
Trotter, Lionel S., Portsmouth, Ohio. Sofa-bed	357,348	Feb. 8	869	229	38	592
Trotter, Richard W., Great Neck, N. Y. Nail-set	368,795	Aug. 23	2100	556	40	876
Trouvé, Gustave, Paris, France. Portable electric propeller for boats	368,796	Aug. 23	2101	556	40	876
Trovillion, James C., Tunnel Hill, Ill. Clamping device for wires	373,789	Nov. 22	2274	609	41	923
Trowbridge, Frank, Fond du Lac, Wis. Feed-water cleaner.....	373,867	Nov. 29	2389	643	41	953
Trowbridge, Samuel, La Forge, Mo. Car-coupling	375,399	Dec. 27	1756	460	41	1412
Troxell, William H., Strongstown, Pa. Metallic railway-tie	371,110	Oct. 4	538	137	41	107
Troy, Daniel S., and J. S. Davis, Montgomery, Ala. Seeding-machine.....	358,005	Feb. 15	1831	482	38	780
Troy, Theodore, Three Rivers, Mich. Reversible screw-driver	366,439	July 12	925	251	40	183
Truax, Edward H. (See Truax, Sewall and E. H.)						
Truax, Sewall, Truax Landing, Wash. Ter. Car-coupling.....	360,831	Apr. 5	614	161	39	115
Truax, Sewall, Truax Landing, Wash. Ter. Suspenders.....	372,051	Oct. 25	1898	{ 489 } { 490 }	{ 41 }	396
Truax, Sewall and E. H., Truax Landing, Wash. Ter. Car-coupling.....	360,832	Apr. 5	616	162	39	115

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Trubel, George, Macomb, Ill. Graduated inspection sash-section for measuring cans.....	371,996	Oct. 25	1804	467	41	381
Trude, Arthur M. (See Rice and Trude.)						
True, David, Amesbury, Mass. Boat-knee.....	371,644	Oct. 18	1279	332	41	268
Truesdale, Charles, Cincinnati, Ohio. Molder's riddle.....	373,382	Nov. 15	1672	444	41	797
Truesdell, Hayden M., West Stockbridge, Mass. Flock-machine feeder.....	366,137	July 5	528	142	40	100
Truesdell, Lucius E., Bristol, N. H. Dump-car.....	368,863	Aug. 23	2195	583	40	895
Truitt, Joseph P., <i>et al.</i> (See Cocker, Peter, assignor.)						
Trull, Larkin T., <i>et al.</i> (See Helme, Jeremiah E., assignor.)						
Trull, William E., New York, N. Y., assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Button-hole attachment for sewing-machines.....	375,304	Dec. 20	1631	427	41	1379
Trum, Emanuel J., Brooklyn, N. Y. Paper box.....	371,230	Oct. 11	703	181	41	147
Truman, Elijah, Parkersburg, W. Va. Measure.....	367,474	Aug. 2	159	45	40	482
Trumble, David P., Bradner, Ohio. Lifting-machine.....	363,439	May 24	1930	506	39	859
Trump, Fuller, and W. A. Scott, Springfield, Ohio. Lawn-mower.....	373,501	Nov. 22	1861	{ 494 495 }	{ 41 }	844
Trump, John G., <i>et al.</i> (See Gerstein, Dederick, assignor.)						
Trump, Paul, <i>et al.</i> (See Gerstein, Dederick, assignor.)						
Trusty, George W. (See Burt and Trusty.)						
Truxal, Benjamin, Chattanooga, Tenn. Detachable collar for shafting.....	370,168	Sept. 20	1244	331	40	1284
Truxal, Logan M. (See Spackman, Matthew B., assignor.)						
Tryon, Charles H., Syracuse, N. Y. Stove-pipe thimble.....	374,643	Dec. 13	683	180	41	1189
Tryon, Le Roy C., Marseilles, Ill. Grain-weighing apparatus.....	375,515	Dec. 27	1907	{ 499 500 }	{ 41 }	1442
Tschuor, Antoni, Wapakoneta, Ohio. Combined churn and ice-cream freezer.....	366,985	July 19	1684	{ 452 453 }	{ 40 }	335
Tubal Cain Tap, Die, and Bolt Company. (See Furbish, Clinton, assignor.)						
Tucker, Argyle W., Midlothian, Tex. Lever-scraper for cleaning plows.....	372,719	Nov. 8	639	174	41	601
Tucker, Argyle W. and E. M., Mansfield, Tex. Making electric gold pictures.....	372,720	Nov. 8	640	.....	41	602
Tucker, Edwin W., Honolulu, Hawaii. Furnace.....	363,261	May 17	1684	441	39	805
Tucker, Edwin W., San Francisco, Cal. Bridge-wall for furnaces.....	367,124	July 26	1880	{ 509 510 }	{ 40 }	379
Tucker Electrical Manufacturing Company. (See Markland, William H., assignor.)						
Tucker, Elihu M. (See Tucker, Argyle W. and E. M.)						
Tucker, F. N., <i>et al.</i> (See Cole, Wesley, assignor.)						
Tucker, George W., and W. L. Roorbach, Philadelphia, Pa. Bottle-stopper.....	367,254	July 26	2072	560	40	416
Tucker, George W., and W. L. Roorbach, Philadelphia, Pa. Bottle-stopper. (Reissue)...	10,881	Nov. 15	1737	458	41	809
Tucker, James W., assignor to Johnston Harvester Company, Batavia, N. Y. Harvester canvas-belt buckler.....	357,644	Feb. 15	1317	347	38	685
Tucker, Mary W. (See Epperly, Belle, assignor.)						
Tucker, Rollin D., Lynn, Mass., assignor of seven-twelfths to M. T. Pooler, Skowhegan, Me., and Sutherland Corrugated Seam Company, Nashua, N. H. Seam-finishing machine.	366,746	July 19	1374	368	40	277
Tucker, Stephen D., New York, N. Y. Sheet-delivery apparatus for cylinder printing-machines.....	365,952	July 5	283	74, 75	40	54
Tucker, Stephen D., New York, N. Y. Web printing and delivery mechanism.....	367,123	July 26	1875	{ 508 509 174 175 176 177 178 }	{ 40 }	378
Tucker, Stephen D., New York, N. Y. Web-printing and delivery apparatus.....	372,721	Nov. 8	641	{ 176 177 178 }	{ 41 }	602
Tucker, William, East Brookfield, Mass. File-cutting.....	356,053	Jan. 11	1080	283	38	217
Tucker, William, East Brookfield, assignor of one-half to G. C. Prouty, Charlton City, Mass. Nut and bolt lock.....	362,909	May 10	1197	320	39	703
Tuerk, Frederick W., Jr., Syracuse, assignor of two-thirds to J. and J. C. Hunter, 2d, Sterling, N. Y. Rotary water-meter.....	362,047	Apr. 26	2382	{ 621 622 }	{ 39 }	464
Tuerk, Frederick W., Jr., assignor to Tuerk Water Meter Company, Syracuse, N. Y. Hose-coupling band.....	366,532	July 12	1058	288	40	210
Tuerk Water Meter Company. (See Tuerk, Frederick W., Jr., assignor.)						
Tufts, James W. (See Brown and Johnston, assignors.)						
Tull, Francis S., Galveston, Tex. Safety-guard for railway-trucks.....	369,416	Sept. 6	145	42	40	1060
Tull, Francis S., Galveston, Tex. Car-berth.....	370,429	Sept. 27	1615	430	40	1361
Tull, Francis S., Galveston, Tex. Car-ventilator.....	371,287	Oct. 11	784	201	41	162
Tüller, Eugène, Ste. Croix, Switzerland, assignor to M. J. Paillard & Co., New York, N. Y. Music-box.....	364,554	June 7	499	134	39	1182
Tullis, John K., Glasgow, county of Lanark, Scotland. Link driving-belt.....	372,880	Nov. 8	908	245	41	646
Tulloch, Seymour W., <i>et al.</i> (See Patton, William P., assignor.)						
Tunmore, William J., assignor to W. J. Perkins, Grand Rapids, Mich. Shingle-sawing machine.....	369,668	Sept. 6	494	136	40	1129
Tunstill, William, Brooklyn, N. Y. Ice-cream freezer.....	372,393	Nov. 1	163	46	41	500
Turl & Sons, John. (See Turl, William J., assignor.)						
Turl, William J., assignor to J. Turl & Sons, New York, N. Y. Sheet-metal mantel.....	374,718	Dec. 13	784	206	41	1209
Turley, Marshall, Council Bluffs, Iowa. Composition of matter for plastering.....	364,555	June 7	500	.....	39	1182
Turley, Marshall, and R. T. Bryant, Council Bluffs, Iowa. Plow.....	365,156	June 21	1389	367	39	1362
Turman, William B. (See Wherry and Turman.)						
Turnberger, Louis, assignor to himself, J. Shrady, New York, and J. P. Mern, Brooklyn, N. Y. Metallic fence-post.....	373,621	Nov. 22	2040	543	41	877
Turnbull, J. P. (See Curtis and Hatch, assignors.)						
Turner, B. E. (See Gilmore, James L., assignor.)						
Turner-Beard Automatic Brake Company. (See Turner, William B., assignor.)						
Turner, Caleb R. (See Browne and Turner.)						
Turner, Charles, La Crosse, Wis. Pipe-coupling.....	373,109	Nov. 15	1245	331	41	719
Turner, Charles, Chicago, Ill. Dust-preventing apparatus for railway-cars.....	373,622	Nov. 22	2041	543	41	878
Turner, Charles W., Jr., Meriden, Kans. Washing-machine.....	357,744	Feb. 15	1476	387	38	714
Turner, De Witt C. (See Carson, Williams, and Turner.)						
Turner, Edward W., and J. Reynolds, Bloxwich, county of Stafford, England. Combined band and circular saw mill.....	358,003	Feb. 15	1826	{ 480 481 }	{ 38 }	779
Turner, George, Schuyler's Lake, N. Y. Chimney-top.....	363,778	May 24	2425	629	39	955
Turner, Isaac A., Detroit, Mich. Steam-engine.....	361,602	Apr. 19	1727	445	39	337
Turner, Isaac P., assignor to A. L. Crawford and L. F. Turner, Troy, N. Y. Shirt.....	371,154	Oct. 4	598	{ 153 154 }	{ 41 }	118
Turner, James, assignor of one-half to R. McDonald, Ingersoll, Ontario, Canada. Spring-bed.....	355,803	Jan. 11	708	185	38	146
Turner, James J., assignor to himself and J. F. Miller, Richmond, Ind. Device for actuating signals, switches, &c.....	374,914	Dec. 13	1075	281	41	1264

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Turner, James J., assignor to himself and J. F. Miller, Richmond, Ind. Detector-bar or safety-lock for switches.	374,915	Dec. 13	1077	281	41	1265
Turner, James J., assignor to himself and J. F. Miller, Richmond, Ind. Device for actuating signals, switches, &c.	374,916	Dec. 13	1078	282	41	1265
Turner, James J., assignor to himself and J. F. Miller, Richmond, Ind. Device for actuating signals on railways.	374,917	Dec. 13	1080	282	41	1266
Turner, John, Chicago, assignor to J. Boyd, Elmhurst, Ill. Creaming-can.	356,511	Jan. 25	1741	454	38	355
Turner, John J., Hunter's Point, Long Island City, N. Y. Clothes-washer.	364,613	June 7	569	153	39	1195
Turner, Joseph, assignor to J. R. Torrey Razor Company, Worcester, Mass. Die for forging razors.	370,504	Sept. 27	1732	460	40	1382
Turner, Joseph, assignor to J. R. Torrey Razor Company, Worcester, Mass. Safety-razor.	370,505	Sept. 27	1733	460	40	1382
Turner, Joseph, assignor to J. R. Torrey Razor Company, Worcester, Mass. Safety-razor.	370,506	Sept. 27	1734	460	40	1382
Turner, Joseph A., Passaic, N. J. Device for fastening rubber tires to wheels.	355,359	Jan. 4	93	25	38	20
Turner, Julius T., Fall River, Mass. Machine for cleaning cotton, &c.	374,160	Nov. 29	2806	753	41	1034
Turner, Laura F., <i>et al.</i> (See Turner, Isaac P., assignor.)						
Turner, Lewis W., Wallingford, Conn., assignor to G. W. Hauxhurst, Paterson, N. J. Curry-comb.	358,510	Mar. 1	129	32	38	927
Turner, Moses. (See Norris, James, assignor.)						
Turner, Thomas G., New York, N. Y. Lead-armored conductor and making the same.	369,372	Sept. 6	90	28	40	1051
Turner, Thomas G., New York, N. Y. Hose-clamping device.	371,231	Oct. 11	705	181	41	147
Turner, Thomas G., New York, N. Y., assignor to Household Fire Extinguisher Company, of New Jersey. Chemical fire-extinguisher.	357,161	Feb. 1	621	160	38	535
Turner, Wendell E., Fall River, Mass. Stair-pad.	356,905	Feb. 1	229	63	38	463
Turner, William B., New York, N. Y., assignor to Turner-Beard Automatic Brake Company. Automatic car-brake.	367,077	July 26	1810	{ 488 } { 489 }	{ 40 }	367
Turner, William H., Tuntstall, county of Stafford, England. Machine for printing designs on paper to be applied to earthenware, &c.	374,644	Dec. 13	684	180	41	1189
Turvey, John H., assignor to G. F. Bushbridge, East Malling, county of Kent, England. Machine for cutting rags or other material.	368,435	Aug. 16	1589	424	40	771
Tusing, Isaac N., Glen Grouse, Kans. Check-row corn-planter.	363,306	May 17	1742	456	39	815
Tutt, John C., Kansas City, Mo. Dust-guard for car-windows.	366,900	July 19	1576	422	40	314
Tuttle, Elias A., <i>et al.</i> (See Littlefield, Charles A., assignor.)						
Tuttle, Frank. (See Goodman and Tuttle.)						
Tuttle, Hiram H., San Francisco, Cal. Wash-boiler.	359,650	Mar. 22	1810	460	38	1268
Tutton, Anaximander B., Sioux Falls, Dak. Ter. Breast-pump.	361,910	Apr. 26	2185	566	39	430
Tuxbury, Charles, Windsor, Vt. Device for measuring cloth.	375,026	Dec. 20	1252	327	41	1305
Tweeddale, William, Topeka, Kans. Purifying water.	360,126	Mar. 29	2595		38	1416
Tweeddale, William, Brooklyn, N. Y. Sash-fastener.	372,645	Nov. 1	535	146	41	573
Tweedie, William. (See Grafenstatt and Tweedie.)						
Twick, Friedrich, Sheboygan, Wis. Combined land-roller and clod-crusher.	365,209	June 21	1454	{ 383 } { 384 }	{ 39 }	1376
Twiggs, William R., assignor of one-fourth to S. E. Bauder, Sandusky, Ohio. Grass-receptacle for lawn-mowers.	370,361	Sept. 20	1508	404	40	1334
Twinn, James E., Indianapolis, Ind. Chimney.	360,332	Mar. 29	2885	734	38	1471
Twing, Daniel H. (See Thomas, Douglas, Smith, and Twing.)						
Twiss, James G., assignor to himself and C. H. Browne, New York, N. Y. Folding bedstead.	371,232	Oct. 11	707	182	41	148
Twiss, Nelson W., New Haven, Conn. Valve-gearing.	356,512	Jan. 25	1742	454	38	355
Twist, Charles H., New York, N. Y., assignor of one-half to W. T. Minor, Stamford, Conn. Railway-switch plate.	356,607	Jan. 25	1873	492	38	381
Twitchell, Donn I., New York, N. Y. Vehicle-spring.	359,986	Mar. 22	2336	587	38	1362
Twombly, Charles, assignor of one-half to J. I. Christie, Dover, N. H. Thill-coupling.	374,566	Dec. 6	576	151	41	1158
Twynam, Thomas, London, England. Producing soluble alkaline phosphates.	361,656	Apr. 19	1812		39	355
Twynam, Thomas, Minford Gardens, county of Middlesex, England. Refractory lining for metallurgical furnaces.	371,233	Oct. 11	708		41	148
Tye, John, assignor to J. D. Oliver, Toronto, Ontario, Canada. Wire mat.	359,235	Mar. 8	1165	303	38	1125
Tyler, Aaron J., assignor to E. C. Cole, Albion, N. Y. Saw-vise holder.	362,910	May 10	1198	320	39	703
Tyler, Aaron J., assignor to E. C. Cole, Albion, N. Y. Corn-popper.	266,533	July 12	1059	288	40	210
Tyler Bradford Machine Company. (See Adams, William E., assignor.)						
Tyler, Charles N., Buffalo, N. Y. Siphon.	357,645	Feb. 15	1318	347	38	686
Tyler, Charles N., Buffalo, N. Y. Siphon oil-can.	365,157	June 21	1390	367	39	1363
Tyler, Frederick A., Rome, N. Y. Combined flour receptacle and sifter.	360,065	Mar. 29	2483	631	38	1397
Tyler, George S. (See Ray, Samuel H., assignor.)						
Tyler, Jerod, St. Mary's, Pa. Car-heater.	372,020	Nov. 29	2602	698	41	995
Tyler, John, Boston, Mass. Machine for indicating the force of blows.	358,706	Mar. 1	425	103	38	983
Tyler, Melvin H., Portland, Me. Combined step-ladder and adjustable bench.	375,400	Dec. 27	1757	461	41	1412
Tyler, Morris S., assignor to Capital Wagon Company, Lansing, Mich. End-gate for wagons.	361,971	Apr. 26	2281	593	39	446
Tyler, Thaddeus F., Lynn, Mass. Laster's tack-can.	369,085	Aug. 30	2522	669	40	967
Tyler, William H., David City, Nebr. Corn-husker.	368,902	Aug. 23	2248	598	40	906
Tylor, Joseph J., Westminster, England. Apparatus for indicating the speed and quantity of liquids.	363,922	May 31	2635	684	39	999
Tynan, Joseph E., Paterson, N. J. Machine for doubling and winding silk, &c.	356,216	Jan. 18	1317	348	38	267
Tynan, Joseph E., Paterson, N. J. Silk-throwing machine.	364,783	June 14	835	219	39	1251
Tynan, Joseph E., Paterson, N. J. Machine for throwing silk.	364,784	June 14	836	220	39	1251
Tynan, Joseph E., Paterson, N. J. Machine for throwing silk.	364,785	June 14	839	{ 220 } { 221 }	{ 39 }	1252
Tyner, James M. C., Ellendale, Dak. Ter. Spark-arrester.	369,483	Sept. 6	231	65	40	1077
Typograph Company. (See Cash, Arthur W., assignor.)						
Tyroler, James. (See Goldwater, Henry, assignor.)						
Tyrell, Ahira. (See Lathrop and Tyrell.)						
Tyson, Bryan, Washington, D. C. Amalgamator.	372,722	Nov. 8	648	178	41	646
Tyzick, James, St. John, New Brunswick, Canada. Car-coupling.	362,126	May 3	103	32	39	493
U. S. Salt Roll Company. (See Macdonald, James, assignor.)						
Udell, Calvin G., Indianapolis, Ind. Clothes-rack.	358,091	Feb. 22	1956	517	38	808
Udell, Calvin G., North Indianapolis, Ind. Towel-arm.	370,665	Sept. 27	1971	522	40	1427
Udell, Calvin G., North Indianapolis, Ind. Coat-rack.	372,503	Nov. 1	320	87	41	531
Uhle, James H., Little Falls, N. Y. Gate.	363,099	May 17	1464	388	39	761
Uhler, Francis M., Wano, Kans. Grapple.	358,132	Feb. 22	2024	532	38	820
Uhlen, George, Rosedale, assignor of one-half to T. Roe, Red Clover, Kans. Machine for forming the heel-calks of horseshoes.	360,932	Apr. 12	763	199	39	148
Uhlinger, William P. (See Zimmermann, John, assignor.)						
Uhlmann, Charles R., Peoria, Ill. Lock.	360,066	Mar. 29	2484	631	38	1397
Uhlmann, Fredrick, <i>et al.</i> (See Stockheim, Heinrich, assignor.) (Reissue.)						
Uhlmann, Simon, <i>et al.</i> (See Stockheim, Heinrich, assignor.) (Reissue.)						
Uhri, Jacob, Chicago, Ill. Steam-pump.	356,671	Jan. 25	1963	{ 515 } { 516 }	{ 38 }	398

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Uldall, Peter C. E., Copenhagen, Denmark. Manufacture of hay and manure forks.....	364,614	June 7	570	153	39	1195
Ulrich, Adolph, assignor of one-half to B. Ott, Sr., La Crosse, Wis. Cigar-press.....	369,373	Sept. 6	91	28	40	1051
Ulrich, Eduard, Höchst-on-the-Main, assignor to C. Roth, Berlin, and Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Trimethylethylthionin-blue coloring-matter.....	362,592	May 10	742	.....	39	618
Ulrich, Eduard, Höchst-on-the-Main, assignor to C. Roth, Berlin, and Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Production of dimethyl-diethylthionin-blue.....	366,639	July 12	1222	.....	40	241
Ulrich, Eduard, Höchst-on-the-Main, assignor to C. Roth, Berlin, and Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Production of diethyl-methylthionin-blue.....	366,640	July 12	1223	.....	40	241
Ulrich, Eduard, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Nitrosophenyl-blue dye-stuff.....	364,320	June 7	154	.....	39	1118
Ulrich, Eduard, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Blue coloring-matter formed by the action of paranitroso-diphenylamines on phenols or oxycarbonic acids.....	366,356	July 12	830	.....	40	164
Ulrich, Eduard, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Blue coloring-matter formed from paranitroso-methyldiphenylamine on phenols or oxycarbonic acids.....	366,357	July 12	830	.....	40	164
Ulrich, Jacob, Hoboken, N. J. Fountain-pen.....	365,953	July 5	284	75	40	54
Ulmann, Alfred A. (See Woodstock, Warren Z., assignor.)						
Ulmann, Gustave H., Paris, France. Gas-lamp.....	359,370	Mar. 15	1354	350	38	1167
Ulmer, John D., <i>et al.</i> (See Carroll, Thomas H., assignor.)						
Ulrich, Frederick W., assignor of one-half to J. J. Allison, Rock Falls, Ill. Barrel-making machine.....	356,217	Jan. 18	1319	348	38	267
Ulrichs, Georg B., Hoboken, N. J., assignor to himself and L. Katzenstein, New York, N. Y. Auxiliary rudder for vessels.....	364,386	June 7	244	69	39	1135
Umstadter, Michael, Norfolk, Va. Display-rack.....	355,733	Jan. 11	606	158	38	129
Unbehend, Jacob J. (See Thomson and Unbehend.)						
Unbehend, Jacob J., Syracuse, N. Y. Spring-clasp.....	368,501	Aug. 16	1691	450	40	729
Unbehend, Jacob J., Syracuse, N. Y. Spring-clasp.....	368,630	Aug. 23	1864	498	40	832
Unbehend, Jacob J., assignor to J. L. Thomson & Co., Syracuse, N. Y. Riveting-machine.....	363,923	May 31	2638	685	39	1000
Uncle Sam Electric Light and Battery Company. (See Serson, James, assignor.)						
Underwood, Amos H., Auburn, N. Y. Folding seat or chair.....	372,881	Nov. 8	909	245	41	646
Underwood, Charles E., <i>et al.</i> (See Kalkhoff, Otto, assignor.)						
Underwood, George B., Toronto, Ontario, Canada. Combined latch and lock.....	367,562	Aug. 2	300	86	40	508
Underwood, Joseph B., Fayetteville, N. C. Method of and machine for applying saliva-proof mouth-pieces to cigarettes.....	364,873	June 14	968	254	39	1276
Underwood, Judson B., New Haven, assignor of one-half to Housatonic Brass Corporation, Derby, Conn. Extension-chain attachment for bird-cages.....	362,127	May 3	104	32	39	493
Underwood, Samuel G., Sr., Milton, Ky. Fire-escape.....	360,333	Mar. 29	2885	735	38	1471
Underwood, Walter H., Denver, Colo. Combined mucilage receptacle and brush.....	373,701	Nov. 22	2153	576	41	901
Unexcelled Fire Works Company. (See Koster, Charles H., assignor.)						
Unexcelled Fire Works Company. (See Linton, Charles B., assignor.)						
Unger, Eugene, <i>et al.</i> (See Beach, Edward P., assignor.)						
Unger, Herman, <i>et al.</i> (See Beach, Edward P., assignor.)						
Unholtz, Lewis W. (See Kirkeby, Charles S. F., assignor.)						
Union Eyelet Company. (See Kingsland, Hugh A., assignor.)						
Union Hydraulic Drain Tile Company. (See Carson, Robert J., assignor.)						
Union Metallic Cartridge Company. (See Hobbs, Alfred J., assignor.)						
Union Paper Bag Machine Company. (See Stilwell, Charles B., assignor.)						
Union Special Sewing Machine Company. (See Muther and Woodward, assignors.)						
Union Switch and Signal Company. (See Cummings, Albert G., assignor.)						
Union Switch and Signal Company. (See Hambay, James T., assignor.)						
Union Water Meter Company. (See Smith, John R., assignor.)						
United States Automatic Water Cut Off Company. (See Browne, Walker G., assignor.)						
United States Cable Motor Construction Company. (See Boyer, Zaccur P., assignor.)						
United States Cotton Harvester Company. (See Bugg, Owen T., assignor.)						
United States Electric Company. (See Short, Sidney H., assignor.)						
United States Electric Lighting Company. (See Kelly, John F., assignor.)						
United States Electric Lighting Company. (See Prescott, George B., Jr., assignor.)						
United States Krotophone Company. (See Watkins, Frank C., assignor.)						
United States Machine and Inventions Company. (See Clawson, Clement C., assignor.)						
United States Rolling Stock Company. (See Carey, Orrin M., assignor.)						
United States Rolling Stock Company. (See Kennedy, Martin, assignor.)						
United States Rolling Stock Company. (See La Mothe, Bernard J., assignor.)						
United States Rolling Stock Company. (See Van Tine, Charles M., assignor.)						
United States Store Service Company. (See Blickensderfer, George C., assignor.)						
United States Wind Engine and Pump Company. (See Burnham and Miller, assignors.)						
Universal Automatic Lubricator Company. (See Flynt, Chester D., assignor.)						
Universal Color Company. (See Müller-Jacobs, Armand, assignor.)						
Universal Electric Arms and Ammunition Company. (See Monfort, Edgar A., assignor.)						
Unsell, Charles H. (See Coghill and Unsell.)						
Updegrave, William M., Johnstown, Pa. Anti-friction roller-bearing.....	366,534	July 12	1060	288	40	210
Upham, Andrew J., assignor of one-half to J. B. Stephens, Sycamore, Ill. Making metallic tubes.....	370,832	Oct. 4	109	30	41	23
Upham, Artemas B. (See Downing and Upham.)						
Upham, Franklin M. (See Eastman, Rufus M., assignor.)						
Upton, Charles S. (See Henkle, Leonard, assignor.)						
Upton, Edgar W., <i>et al.</i> (See Barton, William H. H., assignor.)						
Upton, Edgar W., Peabody, Mass. Thermostat.....	358,511	Mar. 1	129	33	38	928
Upton, Edgar W., Peabody, Mass. Metallic thermometer.....	367,869	Aug. 9	773	208	40	607
Upton, Francis R. (See Hammer, William J., assignor.)						
Upward, Alfred R., West Kensington, and C. W. Pridham, Kensington, county of Middlesex, England. Galvanic battery and apparatus connected therewith.....	357,646	Feb. 15	1319	{ 347 348 }	{ 38 }	686
Urban, Oscar. (See Wightman and Urban.)						
Urich, Charles, assignor of one-half to W. H. Yeomans, Paterson, N. J. Blind-slat rod....	369,484	Sept. 6	232	66	40	1078
Uridge, George R., Detroit, Mich. Smoke-consuming furnace for steam-generators.....	373,502	Nov. 22	1862	495	41	844
Urie, David, Kansas City, Mo. Bucket dredging-machine.....	355,488	Jan. 4	254	67	38	51
Urig, John. (See Kohnz, Peter, assignor.)						
Urlin, Alfred J., Missoula, Mont. Ter. Key-hole guard.....	374,719	Dec. 13	785	206	41	1209
Utter, Homer, Cuba, N. Y. Barbed fence.....	369,825	Sept. 13	705	190	40	1177
Utter, Ralph G., Friendship, N. Y. Hay-tedder.....	370,169	Sept. 20	1245	331	40	1284
Utter, Ralph G., Friendship, N. Y. Hay-tedder.....	372,344	Nov. 1	89	26	41	488

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Utzinger, Albert W. (See Liddicoat and Utzinger.)						
Vaché, William F., Philadelphia, Pa. Painter's hacking-knife.....	358,234	Feb. 22	2160	570	38	846
Vacher, Ernest W., Derby, Tex. Cactus-singer.....	369,896	Sept. 13	818	217	40	1198
Vail, Charles E., Kansas City, Mo. Combined umbrella and cane.....	369,374	Sept. 6	92	29	40	1051
Vail, James W., trustee. (See Kenna, Joseph W., assignor.)						
Vail, Jonathan H., New York, N. Y. Lightning-protector for electrical conductors.....	357,050	Feb. 1	434	115	38	502
Vaile, John H., Dayton, Ohio. Oil-press.....	363,701	May 24	2323	603	39	935
Valentine & Company. (See Carter, William D., assignor.)						
Valentine, James H., Stanley, N. J. Vaporizer.....	374,720	Dec. 13	786	{ 206 207 }	{ 41 }	1209
Valentine, John R., assignor of one-half to S. Moore, Mount Jackson, Va. Attachment for seed-drills.....	356,340	Jan. 18	1500	394	38	302
Valfer, Solomon, and L. Weil, New York, N. Y. Jewel-case.....	372,345	Nov. 1	90	26	41	488
Valiant Button Fly Company. (See Valiant and Nesbitt, assignors.)						
Valiant, George, Toronto, Ontario, Canada. Shoe-fastening.....	355,955	Jan. 11	952	249	38	192
Valiant, George, Toronto, Ontario, Canada. Boot or shoe.....	364,146	May 31	2960	{ 768 769 }	{ 39 }	1062
Valiant, George, Toronto, Ontario, Canada. Boot or shoe.....	364,147	May 31	2961	769	39	1062
Valiant, George, Toronto, Ontario, Canada. Button-hole strip for boots or shoes.....	364,148	May 31	2962	{ 769 770 }	{ 39 }	1062
Valiant, George, Toronto, Ontario, Canada. Button-hole strip for boots or shoes.....	364,149	May 31	2964	770	39	1063
Valiant, George, and J. Nesbitt, Toronto, Ontario, Canada; said Nesbitt assignor to Valiant Button Fly Company, Portland, Me. Leather cutting and embossing machine.....	360,933	Apr. 12	765	200	39	148
Valiquet, Louis P., Brooklyn, assignor to Valiquet Tricycle Company, New York, N. Y. Velocipede.....	357,249	Feb. 8	742	{ 192 193 }	{ 38 }	567
Valiquet, Louis P., Brooklyn, assignor to Valiquet & Radcliff, New York, N. Y. Hand-measure for gloves.....	371,645	Oct. 18	1281	332	41	268
Valiquet & Radcliff. (See Valiquet, Louis P., assignor.)						
Valiquet Tricycle Company. (See Valiquet, Louis P., assignor.)						
Valk, James S., et al. (See Marion, Joseph, assignor.)						
Valley Iron Works. (See Byrns, Oscar A., assignor.)						
Vallier, John L., Skowhegan, Me. Pea-shooter.....	369,485	Sept. 6	233	66	40	1078
Valon, Aimé F., assignor to F. Valon & Co., Geneva, Switzerland. Clock-winding mechanism.....	358,997	Mar. 8	858	218	38	1066
Valon & Co., F. (See Valon, Aimé F., assignor.)						
Van, Floyd H. C., Waterproof, La. Cultivator.....	367,684	Aug. 2	493	135	40	544
Van Altena, Henry, and V. C. Vantwoud, Brooklyn, N. Y. Breast-pump.....	356,266	Jan. 18	1379	365	38	280
Van Amringe, Benjamin F., Oakland, Cal. Combined bevel-square, beam-compass, level, and gage.....	363,491	May 24	2014	525	39	877
Van Antwerp, Harmon W., assignor to S. G. Burleigh, Grand Rapids, Mich. Vehicle-spring platform.....	364,150	May 31	2966	770	39	1063
Van Beek, George L. (See McKelvey and Van Beek.)						
Van Benthuyzen, Henry B., Phoenixville, Pa. Gas-generating furnace.....	363,023	May 17	1364	{ 360 361 }	{ 39 }	741
Van Brimer, Joseph J., Warrensburg, Ohio. Gate.....	364,321	June 7	155	43	39	1118
Van Brunt, Cornelius. (See Wood and Place, assignors.)						
Van Buren, Myron. (See Langill, Alexander D., assignor.)						
Van Buskirk, William H., Milford, N. Y. Car coupling.....	375,661	Dec. 27	2127	552	41	1481
Van Choate, Silvanus F., New York, N. Y. Incandescent electric lamp.....	362,128	May 3	104	32	39	494
Van Cleave, James C., Malvern, Ark. Fence.....	369,571	Sept. 6	356	98	40	1102
Van Court, Daniel P. (See Roberts, Frederick C., assignor.)						
Van De Mark, Charles W., and C. Moore, Clyde, Kans. Tongue-support.....	357,428	Feb. 8	981	258	38	613
Van De Mark, William, Phelps, N. Y. Fountain-pen.....	366,047	July 5	412	112	40	78
Van den Bosch, Frederick, Parker's Landing, Pa. Cutting mechanism for harvesters.....	357,512	Feb. 8	1100	290	38	635
Van Depoele, Charles J., Chicago, Ill. Suspended conductor for electric railways.....	358,512	Mar. 1	130	33	38	928
Van Depoele, Charles J., Chicago, Ill. Electro-dynamic motor.....	362,798	May 10	1046	284	39	675
Van Depoele, Charles J., Chicago, Ill. Roof for suspended electric conductors.....	367,475	Aug. 2	160	45	40	482
Van Depoele, Charles J., Chicago, Ill. Electro-magnetic railway-brake.....	367,685	Aug. 2	494	136	40	544
Van Derveer, Benjamin B., New York, N. Y. Baking-oven.....	366,138	July 5	528	{ 142 143 }	{ 40 }	100
Van Derwerken, Alfred. (See Gardner, Oliver L., assignor.)						
Van Deventer, Presley D., Salisbury, Mo. Express-car.....	375,232	Dec. 20	1534	403	41	1361
Van Devort, Thomas D. (See Botsford, Frederick G., assignor.)						
Van Dusen, George W., Brooklyn, N. Y. Stringed musical instrument.....	363,564	May 24	2120	550	39	897
Van Dusen, Samuel B., et al. (See Ray, Alexander, assignor.)						
Van Duzer, Tusten, Newark, N. J. Pillow-sham holder.....	365,158	June 21	1392	367	39	1363
Van Gelder, John, et al. (See Saxton, Augustus C., assignor.)						
Van Gestel, Jean T., New York, N. Y. Secondary electric battery.....	358,092	Feb. 22	1957	517	38	809
Van Gieson, George W., et al. (See Travis, Jerome, assignor.)						
Van Gieson, John B., et al. (See Floyd, John, assignor.)						
Van Gülpen, Carl, San Francisco, Cal. Fire-kindler.....	363,703	May 24	2326	604	39	936
Van Hagen, Isaac, Chicago, Ill. Tea-kettle.....	364,151	May 31	2966	771	39	1063
Van Harlingen, William L. (See Van Harlingen, William L., assignor.)						
Van Harlingen, William L., Sr., San Francisco, Cal. Railway cross-tie.....	369,755	Sept. 13	601	163	40	1157
Van Harlingen, William L., Jr., San Francisco, Cal. Railway cross-tie.....	369,756	Sept. 13	602	163	40	1157
Van Harlingen, William L., assignor to W. L. Van Harlingen, San Francisco, Cal. Fastening for railway-rail joints.....	362,861	May 10	1124	302	39	689
Van Harlingen, William L., Sr., and W. L., Jr., San Francisco, Cal. Heating-pipe connection between cars.....	372,946	Nov. 8	996	{ 268 269 }	{ 41 }	663
Van Harlingen, William L., Sr., and W. L., Jr., San Francisco, Cal. Heating-pipe connection between cars.....	372,947	Nov. 8	999	{ 269 270 }	{ 41 }	663
Van Hoevenbergh, Henry, New York, assignor of one-half to J. H. Bunnell, Brooklyn, N. Y. Electro-mechanical movement.....	374,883	Dec. 13	1019	266	41	1254
Van Horn, Nathaniel and R. S., Catasauqua, Pa. Fence.....	357,745	Feb. 15	1477	387	38	714
Van Horn, R. Sayre. (See Van Horn, Nathaniel and R. S.)						
Van Horn, Vandiver J., Shannon, Kans. Wrench.....	370,507	Sept. 27	1735	461	40	1383
Van Horne, Victor P., and A. J. Fisher, assignors to W. H. Hyers and J. Brenerman, Dayton, Ohio. Carpet-stretcher.....	356,017	Jan. 11	1028	270	38	208
Van Hosen, Jacob, Kearney, N. J. Machine for gathering stones.....	373,110	Nov. 15	1246	332	41	719
Van Houten, Frank H., Matteawan, N. Y. Illuminator for ovens.....	356,018	Jan. 11	1030	271	38	208
Van Houten, Silas H., Patriot, Ind. Fire-grenade.....	366,901	July 19	1577	422	40	315
Van Matre, William, deceased; P. Rule, Noble, Ill., administrator. Tellurian.....	357,157	Feb. 1	615	158	38	534
Van Ness, Thomas E., Vailsburg, N. J. Hame.....	361,032	Apr. 12	921	233	39	175
Van Normann, Minna, et al. (See Farmer, Luther C., assignor.)						
Van Nort, Sterling P., Manchester, Mo. Railway-crossing alarm.....	359,371	Mar. 15	1356	351	38	1168

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Van Orden, Charles H., Catskill, N. Y. Trunk-harness.....	369,139	Aug. 30	2585	687	40	980
Van Order, Abram, Ithaca, N. Y. Fire-escape.....	370,833	Oct. 4	111	30	41	23
Van Order, Jacob W., Arlington, Oreg. Seed-planter.....	359,041	Mar. 8	910	232	38	1076
Van Osdel, Charles R., La Grange, assignor to himself and G. W. Straight, Chicago, Ill. Lumber-drier.....	363,704	May 24	2327	604	39	936
Van Pelt, John K., Nashville, Tenn. Double-acting pump.....	362,681	May 10	876	238	39	643
Van Ruymbeke, Joseph, assignor to National Chemical and Fertilizer Company, Chicago, Ill. Deodorizing tank-water.....	362,235	May 3	243	.....	39	520
Van Ruymbeke, Joseph, assignor to National Chemical and Fertilizer Company, Chicago, Ill. Obtaining cyanide and ferro-cyanide from tank-water.....	362,236	May 3	244	.....	39	520
Van Ruymbeke, Joseph, assignor to National Chemical and Fertilizer Company, Chicago, Ill. Fertilizer.....	367,732	Aug. 2	579	.....	40	560
Van Ruymbeke, Joseph, assignor to National Chemical and Fertilizer Company, Chicago, Ill. Aniline tar.....	372,243	Oct. 25	2186	.....	41	450
Van Rysselberghe, François, <i>et al.</i> (See Barnard, William T., assignor.)						
Van Rysselberghe, François, <i>et al.</i> (See Selden, Charles, assignor.)						
Van Rysselberghe, François, Schaerbeek, Belgium. System of electrical distribution.....	360,492	Apr. 5	139	34	39	27
Van Rysselberghe, François, Brussels, Belgium. Telegraphy.....	361,734	Apr. 26	1923	499	39	382
Van Rysselberghe, François, Brussels, Belgium. Telegraphy.....	363,188	May 17	1593	418	39	787
Van Rysselberghe, François, Brussels, Belgium. Electric speed-regulator for revolving motors.....	370,575	Sept. 27	1837	489	40	1401
Van Rysselberghe, François, Brussels, Belgium. Repeater for harmonic telegraphs.....	370,576	Sept. 27	1840	489	40	1401
Van Rysselberghe, François, Brussels, Belgium. Phono-multiple telegraphy.....	370,577	Sept. 27	1841	{ 489 } { 490 }	{ 40 }	1402
Van Sands, Horace, New York, N. Y. Loop-insulator.....	362,682	May 10	877	239	39	643
Van Sas, Marinus. (See Kunkel and Van Sas.)						
Van Slyke, Alexander. (See Snell and Van Slyke.)						
Van Strait, Andrew, assignor to himself, S. M. and F. E. Thornton, Sidney, N. Y. Regulator-pin for watches.....	361,850	Apr. 26	2101	545	39	414
Van Tassel, Julius A., Benona, Mich. Wheel-harrow.....	359,478	Mar. 15	1522	{ 389 } { 390 }	{ 38 }	1199
Van Tine, Charles M., Matteawan, N. Y., assignor to United States Rolling Stock Company. Rotary engine.....	362,194	May 3	185	56	39	510
Van Tuyl, Benjamin S. (See Parker, Eli B., assignor.)						
Van Vleck, Charles E., <i>et al.</i> (See Kyle, Robert J., assignor.)						
Van Vliet, Warren R., East Stroudsburg, Pa. Wash-board.....	358,707	Mar. 1	427	103	38	983
Van Vliet, Warren R., East Stroudsburg, Pa. Convertible mower and insect-catcher.....	359,191	Mar. 8	1103	{ 286 } { 287 }	{ 38 }	1114
Van Vliet, William C. (See Adriance, Benjamin, assignor.)						
Van Wagenen, George, New York, N. Y. Stove for heating cars, &c.....	372,828	Nov. 8	828	221	41	632
Van Wagenen, George, New York, N. Y. Fastening for doors.....	372,829	Nov. 8	831	221	41	633
Van Wagenen, George, New York, N. Y. Fastening for doors.....	372,830	Nov. 8	832	222	41	633
Van Wagenen, George, New York, N. Y. Stove.....	372,831	Nov. 8	834	222	41	633
Van Wagenen, George, New York, N. Y. Stove for heating cars, boats, &c.....	372,832	Nov. 8	835	222	41	634
Van Wart, George, Yonkers, N. Y. Attachment for hat-pouncing machines.....	367,169	July 26	1940	523	40	390
Van Wie, Byron, assignor of part to J. McGowan, W. J. Kane, and C. H. Tolhurst, Troy, N. Y. Rail-joint union.....	360,543	Apr. 5	220	55	39	43
Van Wie Gas Stove Company. (See Van Wie, Peter G., assignor.)						
Van Wie, Peter G., Cleveland, Ohio, assignor to Van Wie Stove Company, of Ohio. Gas-stove.....	366,704	July 19	1315	353	40	266
Van Winkle & Co., Hanson. (See Colburn, Irving W., assignor.)						
Van Winkle, Edward, Atlanta, Ga. Cotton-gin.....	366,139	July 5	530	143	40	100
Van Winkle, Garret, North Plainfield, N. J. Means for making door-knobs.....	373,572	Nov. 22	1971	524	41	863
Van Winkle, John R., Aberdeen, Wash. Ter. Drag-saw support and guide.....	359,042	Mar. 8	912	232	38	1077
Van Wyck, Frederick, New York, N. Y. Gripper mechanism for job-printing presses.....	368,258	Aug. 16	1347	353	40	623
Vance, John D., Cincinnati, Ohio. Ash-screen for grates.....	365,954	July 5	285	75	40	54
Vance, John D., Cincinnati, Ohio. Heater-grate.....	367,255	July 26	2073	560	40	416
Vance, Samuel B. H., New York, N. Y. Shade or globe holder.....	363,702	May 24	2325	603	39	936
Vance, Samuel J., Norton, Kans. Door-check.....	371,646	Oct. 18	1283	332	41	268
Vancleave, Charles N., <i>et al.</i> (See Yaryan, Harvey B., assignor.)						
Vandegaer, Leo. (See Draughon, James N., assignor.)						
Vandegrift, Andrew J., St. Louis, Mo. Steam-engine.....	367,476	Aug. 2	162	46, 47	40	483
Vander Weyde, Peter H., Brooklyn, N. Y. Sanitary galvanic appliance.....	357,647	Feb. 15	1323	.....	38	686
Vandercook, H. R., <i>et al.</i> (See Cole, Wesley, assignor.)						
Vandercook, Henry R., <i>et al.</i> (See Boughton, Barton A., assignor.)						
Vanderheyden, Charles W., and G. Powell, Grand Haven, Mich. Balanced valve.....	360,628	Apr. 5	338	84	39	65
Vanderhoef, Thomas S. (See Beatty, Samuel, assignor.)						
Vanderman, William, Willimantic, Conn. Pipe-vise.....	371,805	Oct. 18	1521	392	41	317
Vanduzen, Benjamin C., Winton Place, Ohio. Pump.....	364,739	June 14	744	198	39	1237
Vanduzen, Benjamin C., Winton Place, Ohio. Pump.....	375,027	Dec. 20	1252	327	41	1305
Vanduzen, Ezra W., Newport, Ky. Grate-bar.....	360,067	Mar. 29	2485	631	38	1398
Vanduzen, Ezra W., Newport, Ky. Furnace.....	360,182	Mar. 29	2678	676	38	1432
Vanetten, Ira S., assignor of one-half to W. B. Christy, Toledo, Ohio. Swing.....	367,477	Aug. 2	165	47	40	483
Vanmeter, James W., Oakville, Tex. Windmill.....	371,718	Oct. 18	1397	361	41	293
Vanover, Joseph M., assignor of three-fourths to W. W. Feris, J. Y. Wright, and H. E. Henry, Terre Haute, Ind. Wire fence.....	362,911	May 10	1199	321	39	703
Vanpelt, Alfred M., and P. P. Nicholls, Seneca, Kans. Windmill.....	362,557	May 10	684	191	39	609
Vanreed, Wellington. (See Zwoyer and Auge, assignors.)						
Vanriet, Evariste. (See Goffin and Vanriet.)						
Vansant, John, St. Louis, Mo. Diffraction-camera.....	357,746	Feb. 15	1478	388	38	714
Vansant, Walter B., Belle Plaine, Iowa. Argand lamp.....	367,770	Aug. 2	632	169	40	570
Vanvactor, William T., Argos, Ind. Plow.....	375,516	Dec. 27	1909	500	41	1442
Vantwoud, Victor C. (See Van Altena and Vantwoud.)						
Vare, John A., Philadelphia, Pa. Tinnors' tongs.....	359,110	Mar. 8	1003	258	38	1095
Varney, Joseph T., assignor of one-fourth to E. Robinson, South Wareham, Mass. Pounder washing-machine.....	370,834	Oct. 4	112	30	41	23
Varney, William. (See Rosen, Joseph A., assignor.)						
Vassar Burglar Alarm Company. (See Vassar, Robert G., assignor.)						
Vassar, Robert G., New York, N. Y., assignor to Vassar Burglar Alarm Company. Alarm-lock.....	373,111	Nov. 15	1247	332	41	719
Vauclain, Samuel M., assignor to G. Burnham, C. T. Parry, E. H. Williams, W. P. Henszey, J. H. Converse, W. C. Stroud, W. H. Morrow, and W. L. Austin, Philadelphia, Pa. Apparatus for putting together and drilling locomotive and car trucks.....	355,901	Jan. 11	864	226	38	175
Vaughn, Edgar F., and C. States, Topeka, Kans. Flambeau.....	365,284	June 21	1571	409	39	1396
Vaughn, Joseph W., Peabody, Mass., assignor to Vaughn Morocco Machine Company, Portland, Me. Machine for unhairing hides.....	373,112	Nov. 15	1251	{ 332 } { 333 }	{ 41 }	720

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Vaughn Morocco Machine Company. (See Vaughn, Joseph W., assignor.)						
Vavasseur, Josiah, Southwark, county of Surrey, England. Center-pivoted mounting for guns.	373,623	Nov. 22	2043	{ 543 544 }	{ 41 }	878
Veeder, Curtis H., Calumet, Mich., assignor to Pope Manufacturing Company, Portland, Me. Velocipede.	371,234	Oct. 11	709	182	41	148
Veeder, Curtis H., Calumet, Mich., assignor to Pope Manufacturing Company, Portland, Me. Velocipede-saddle.	372,994	Nov. 8	1070	286	41	676
Veeder, John I., Chicago, Ill., assignor to Crane Elevator Company, of Illinois. Means for controlling elevators.	372,280	Oct. 25	2238	574	41	460
Vellines, Benton H., Norfolk, Va. Picking-table for nuts, &c.	364,977	June 14	1117	291	39	1303
Vendrick, James D. (See Andrew and Vendrick.)						
Venini, Giuseppe. (See Geronimi and Venini.)						
Vennard, Malcom H. (See Tomassek, Romeo P., assignor.)						
Verbeeck, Leon, and E. De Raet, Brussels, Belgium. Tube-expander.	372,995	Nov. 8	1072	286	41	676
Verbryck, Samuel A., Bellville, N. J., assignor to J. F. Smith, New York, N. Y. Brush-band.	370,717	Sept. 27	2055	545	40	1442
Verch, Charles. (See Lehr and Verch.)						
Verdel, Emile F., assignor of one-half to F. Ozanne, Memphis, Tenn. Machine for tin-wiring the edges of sheet-metal vessels.	362,471	May 3	565	157	39	583
Verein für Chemische Industrie in Mainz. (See Rumpf, Gustav, assignor.)						
Vereker, Amos M., and S. M. Yeates, Dublin, Ireland. Car brake and starter.	373,624	Nov. 22	2046	{ 544 545 }	{ 41 }	879
Vermeulen, John, New York, N. Y. Metal-slitting machine.	369,669	Sept. 6	496	137	40	1129
Vermilye, Marion H., New York, N. Y. Holder for poles and other articles.	358,307	Feb. 22	2261	596	38	866
Vermont Farm Machine Company. (See Kimball, Perley L., assignor.)						
Vernon, Marion F., and O. L. Reeves, Eldon, Mo. Churn-dasher.	363,779	May 24	2426	630	39	955
Vernon, Miles, Brooklyn, N. Y. Paper-holder.	366,902	July 19	1578	422	40	315
Vernon, William, <i>et al.</i> (See Bonehill, Robert, assignor.)						
Verrier, Pauline, and J. E. Bonnevaux, Paris, France. Combined cane and umbrella.	360,544	Apr. 5	221	55, 56	39	43
Verstraete, Edmond, Chicago, Ill. Engine-governor.	359,299	Mar. 15	1253	325	38	1149
Verstraete, Edmond, Chicago, Ill., assignor of one-half to J. H. Rowe, Detroit, Mich. Rotary engine.	356,384	Jan. 18	1557	409	38	313
Very, Theodore S. (See Batchelder and Very.)						
Very, Theodore S., Boston, Mass. Horseshoe-machine.	364,689	June 14	673	{ 179 180 }	{ 39 }	1223
Very, Theodore S., Boston, Mass. Compound fabric.	364,786	June 14	843	221	39	1252
Very, Theodore S., Boston, Mass. Ingot for the manufacture of compound metallic tubes.	371,719	Oct. 18	1399	361	41	293
Very, Theodore S., Boston, Mass. Breeching-buckle.	374,764	Dec. 13	848	223	41	1222
Vesey, Theodore C., assignor of one-sixth to S. B. White, West Point, Miss. Fire-grate.	356,084	Jan. 11	1131	298	38	226
Vesey, Theodore C., and W. C. White; said Vesey assignor of one-third of his right to S. B. White, West Point, Miss. Fire-place.	361,657	Apr. 19	1813	470	39	355
Vess, David L., Spokane Falls, Wash. Ter. Car-coupling.	364,874	June 14	970	255	39	1276
Vessel, Martin, Philadelphia, Pa. Nursing-bottle.	371,005	Oct. 4	403	100	41	80
Vest, Eugene W., Keokuk, Iowa. Adding-machine.	369,998	Sept. 13	981	259	40	1227
Vibert, Francis C., East Hartford, Conn. Combined drill, fertilizer-sower, and check-row marker.	358,369	Feb. 22	2341	{ 621 622 }	{ 38 }	881
Vicars, John, Sr. (See Vicars, Thomas, Sr., J., Sr., T., Jr., and J., Jr.)						
Vicars, Thomas, Sr., deceased, (F. W. Ritter, Jr., administrator,) J., Sr., T., Jr., and J., Jr., Liverpool, county of Lancaster, England. Apparatus for feeding fuel.	364,194	May 31	3027	{ 786 787 }	{ 39 }	1075
Vick, James I., Hornsborough, S. C. Lasting-tool.	364,064	May 31	2839	737	39	1040
Vicken, George P., Cincinnati, Ohio. Attachment for machines for cutting moldings.	366,280	July 12	726	{ 157 198 }	{ 40 }	145
Vicken, George P., Cincinnati, assignor to J. T. Sargent, Winton Place, Ohio. Machine for cutting wood moldings.	355,575	Jan. 4	365	98	38	75
Vickers, George E., <i>et al.</i> (See Congdon, Albert F., assignor.)						
Victor Horse Shoe Company. (See Batchelder, Hazen J., assignor.)						
Victor Safe and Lock Company. (See Baum, Jacob, assignor.)						
Victor Safe and Lock Company. (See Spivey, Thomas S., assignor.)						
Videto, Theodore H., Hyde Park, assignor of one-half to L. D. Apsley and J. H. Coffin, Hudson, Mass. Knife for rubber-coating machines.	371,155	Oct. 4	600	154	41	118
Videto, Theodore H., Hyde Park, assignor of one-half to L. D. Apsley and J. H. Coffin, Hudson, Mass. Water-proof gossamer fabric.	375,233	Dec. 20	1535	403	41	1361
Videto, Theodore H., assignor of one-half to L. D. Apsley and J. H. Coffin, Hudson, Mass. Making rubber-striped water-proof fabrics.	375,234	Dec. 20	1536	-----	41	1362
Videto, Theodore H., assignor of one-half to L. D. Apsley and J. H. Coffin, Hudson, Mass. Knife for finishing water-proof fabrics.	375,305	Dec. 20	1632	428	41	1380
Viehoffer, Carl R., Insterburg, Prussia, Germany. Lesson-displaying device.	358,761	Mar. 1	497	122	38	996
Vieille, Emile, Providence, R. I. Chain.	359,413	Mar. 15	1427	365	38	1181
Vielhaber, Walter, Altoona, Pa. Relief-valve for engine-cylinders.	367,563	Aug. 2	301	86, 87	40	508
Vierheller, Louis, assignor of one-half to L. Bartel, Belleville, Ill. Sham-pillow.	368,864	Aug. 23	2195	583	40	895
Viernow, Gustav M., St. Louis, Mo. Stone-sawing machine.	372,996	Nov. 8	1073	287	41	677
Villamore, Timoteo, Merida, Yucatan, Mexico. Machine for cleaning vegetable fiber.	362,683	May 10	878	239	39	644
Villsack, L., <i>et al.</i> (See Epping, Henry, assignor.)						
Vincent, Frank S., Pentwater, and J. W. Cairns, Grand Rapids, Mich. Step for railway-cars.	374,217	Dec. 6	65	18	41	1059
Vincent, Michael, Des Moines, Iowa. Apparatus for burning sewage.	370,223	Sept. 20	1315	350	40	1297
Vinson, George W., Mayfield, Ky. Clevis.	366,140	July 5	531	143	40	100
Vinton, David, Jr., and F. H., Williamsburg, Mich. Railway-signal.	372,095	Oct. 25	1968	506	41	480
Vinton, Frank H. (See Vinton, David, Jr., and F. H.)						
Vinton, John H., Boston, Mass., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Button-setting machine.	363,349	May 17	1803	{ 472 473 }	{ 39 }	827
Vinton, John H., Boston, Mass., assignor to Peninsula Novelty Company, Grand Rapids, Mich. Button-fastening machine.	368,631	Aug. 23	1865	498	40	832
Vinton, John H., Boston, Mass., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Staple-machine.	372,096	Oct. 25	1969	506	41	409
Vintree, Frank L., and W. W. Climensson, Honey Brook, Pa. Tobacco-lath holder.	364,978	June 14	1119	292	39	1304
Violet, Atwood, <i>et al.</i> (See Tabony, Joseph H., assignor.)						
Virnig, Adrian. (See Marx and Virnig.)						
Viser, William M., Maysville, Ky. Nailing implement.	371,863	Oct. 18	1611	416	41	335
Vitalis, Baptiste, Pittsburg, Pa. Apparatus for repairing and extending flag-staffs, &c.	366,141	July 5	532	143	40	100
Vite, Charles H., San Francisco, Cal. Oar-lock.	373,702	Nov. 22	2153	577	41	901
Viterbo, Richard, New Orleans, La. Purifying, clarifying, and discoloring saccharine liquids.	364,615	June 7	571	-----	39	1195
Vitrite and Luminoid Company. (See Swan, Alfred, assignor.)						
Vivian, John, assignor of one-half to G. H. Skiff, Trenton, N. Y. Wire-tightening device.	372,723	Nov. 8	650	179	41	603

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Vivion, David R., McCredie, Mo. Corn-planter.....	374,218	Dec. 6	67	18	41	1060
Vivion, John G., assignor to A. D. Waste, Galesburg, Ill. Coin-box.....	369,140	Aug. 30	2586	687	40	981
Vivó y Graells, Francisco, Barcelona, Spain. Regulator for dynamo-electric machines.....	358,133	Feb. 22	2025	532	38	820
Voden, Sidney J., assignor of one-half to J. W. Bell, St. Louis, Mo. Fan or blower.....	366,535	July 12	1061	288	40	211
Voelker, William L., assignor to J. H. Irwin, trustee, Morton, Pa. Incandescent electric lamp.....	356,019	Jan. 11	1031	271	38	208
Voelker, William L., assignor to J. H. Irwin, trustee, Morton, Pa. Manufacturing carbons for electrical purposes.....	356,020	Jan. 11	1032	271	38	209
Vogel & Brothers, W. (See Vogel, William, assignor.)						
Vogel, Charles, and F. Whelan, San Francisco, Cal. Subway for cable railways.....	358,584	Mar. 1	255	59	38	951
Vogel, Charles, and F. Whelan, San Francisco, Cal. Grip for cable railways.....	359,043	Mar. 8	914	232	38	1077
Vogel, Charles W., and S. F. Watson, Richmond, Ind. Advertising-chariot.....	369,305	Aug. 30	2506	748	40	1024
Vogel, Henry J., Brooklyn, N. Y. Dust-pan.....	359,111	Mar. 8	1104	258	38	1095
Vogel, John B., New Orleans, La. Decorticating-machine.....	359,192	Mar. 8	1104	287	38	1114
Vogel, John B., New Orleans, La. Decorticating-machine.....	373,161	Nov. 15	1332	354	41	734
Vogel Petroleum Heating Company. (See Vogel, William, assignor.)						
Vogel, William, assignor to Vogel Petroleum Heating Company, Chicago, Ill. Burner for vapor-stoves.....	372,724	Nov. 8	650	179	41	603
Vogel, William, assignor to W. Vogel & Brothers, Brooklyn, N. Y. Paint-can.....	375,517	Dec. 27	1910	500	41	1442
Vogeley, Aaron E., Butler, Pa. Attachment for grates or stoves.....	364,690	June 14	674	180	39	1224
Vogelsang, Alexander, assignor to Vogelsang Screw Propeller Company, New York, N. Y. Screw-propeller.....	360,833	Apr. 5	617	{ 162 163 164 }	{ 39 }	116
Vogelsang, Alexander T., et al. (See Anderson, Henry, assignor.)						
Vogelsang Screw Propeller Company. (See Vogelsang, Alexander, assignor.)						
Voght, John P. S., Denver, Colo. Seal-press.....	361,972	Apr. 26	2281	593	39	446
Vogler, George W. (See Cook, Stephen S., assignor.)						
Vogley, Henry, assignor to C. F. Smith, Elyria, Ohio. Composition for cementing rubber.....	368,174	Aug. 9	1204	.....	40	688
Vogt, William R., Oakland, Cal. Spirit-level.....	359,236	Mar. 8	1166	303	38	1125
Voigt, Ferdinand F., Chicago, Ill. Machine for threading sheet-metal pipes.....	369,417	Sept. 6	146	42	40	1060
Voisard, E. P. (See Rouget, Charles, assignor.)						
Volker, Daniel L., assignor to Volker & Felthousen Manufacturing Company, Buffalo, N. Y. Pump.....	370,666	Sept. 27	1972	522	40	1427
Volker & Felthousen Manufacturing Company. (See Volker, Daniel L., assignor.)						
Vollbrecht, Heinrich, and C. Mensching, assignors to Schoellkopf Aniline and Chemical Company, Buffalo, N. Y. Red coloring-matter from alpha diazo beta-naphthylamine sulphonic acid.....	356,672	Jan. 25	1966	.....	38	398
Vollmer, Henry, Philadelphia, Pa. Locket, ear-ring, or other jewelry.....	368,984	Aug. 30	2374	631	40	939
Vollten, Theodore, Washington, D. C. Sash-cord fastener.....	365,654	June 28	2132	557	39	1517
Volney, Carl W., Tom's River, N. J. Explosive compound.....	366,281	July 12	728	.....	40	145
Voltz, George M., assignor to C. H. Schultz, St. Joseph, Mo. Vapor-burner.....	363,863	May 31	2552	663	39	985
Voltz, George M., assignor of one-half to J. L. Kirby, St. Joseph, Mo. Oven for vapor-stoves.....	374,219	Dec. 6	68	18	41	1060
Von Borries, August, Hanover, Prussia, Germany. Compound locomotive.....	361,471	Apr. 19	1544	{ 399 400 }	{ 39 }	303
Von der Linden, Charles, Rhinebeck, N. Y. Cork-fastener.....	371,771	Oct. 18	1472	380	41	308
Von der Mühlen, Charles, Milwaukee, Wis. Gate for swinging bridges.....	374,435	Dec. 6	376	98	41	1117
Von Gersheim, Arthur, Sachsenhof-Kärnthen, near Feistritz, Austria-Hungary. Composition for artificial stone, &c.....	363,864	May 31	2553	.....	39	985
Von Heyden, F. (See Kempf, Theodor, assignor.)						
Von Heyden, F. (See Schmitt, Rudolf, assignor.)						
Von Jankó, Paul, Totis, Austria-Hungary. Key-board for musical instruments.....	360,255	Mar. 29	2781	707	38	1452
Von Kalkreuth, Robert, Green Point, N. Y. Gas-engine.....	358,134	Feb. 22	2027	533	38	820
Von Klein, Carl H., Dayton, Ohio. Gynecological stirrup.....	357,694	Feb. 15	1391	366	38	698
Von Martini, Friedrich, Frauenfeld, Switzerland, assignor, by mesne assignments, to W. E. Hale, Chicago, Ill. Gas-motor.....	358,796	Mar. 1	547	{ 135 136 }	{ 38 }	1006
Von Neufville, Alfred. (See Warnecke, Gustav, assignor.)						
Von Rönne, Johann, Perleberg, Prussia, assignor to W. H. Müller, Berlin, Germany. Cigar-bunching machine.....	373,806	Nov. 22	2304	616	41	929
Von Sholly, Gustavus A., Flushing, N. Y. Last-block fastener.....	367,870	Aug. 9	774	209	40	607
Von Stein, James P., and H. A. White, North Liberty, Iowa. Gate.....	364,195	May 31	3029	{ 787 788 }	{ 39 }	1075
Von Walcher-Uysdal, Rudolf R., Teschen, Silesia, Austria-Hungary. Apparatus for splitting coal, &c.....	370,749	Sept. 27	2098	{ 556 557 }	{ 40 }	1450
Von Wechnar, Fritz B., Hanover, Germany. Watch.....	365,032	June 14	1196	315	39	1317
Von Wedelstaedt, Victor, Berlin, Germany. Method of and apparatus for learning to play on the piano.....	370,750	Sept. 27	2102	557	40	1451
Von Welsbach, Carl A., Vienna, Austria-Hungary. Gas-incandescent.....	359,524	Mar. 15	1600	.....	38	1213
Voorhees, Alice T. (See Voorhees, John S., assignor.)						
Voorhees, John S., assignor to A. T. Voorhees, Brooklyn, N. Y. Package-wrapper.....	374,281	Dec. 6	147	39	41	1075
Voorhees, Stephen F., Adrian, Mich. Folding platform for harvesters.....	370,430	Sept. 27	1615	{ 430 431 }	{ 40 }	1361
Voorhees, Stephen F., Adrian, Mich. Folding platform for grain-harvesters.....	374,814	Dec. 13	921	240	41	1235
Voorhis, Calvin, New York, N. Y. Suspender-buckle.....	365,713	June 28	2218	578	39	1531
Voorhis, Calvin, assignor to himself and A. Shenfield, New York, N. Y. Clasp for elastic straps, &c.....	358,634	Mar. 1	319	76	38	962
Voorhis, Calvin, assignor to himself and A. Shenfield, New York, N. Y. Suspender-end.....	362,684	May 10	880	240	39	644
Voorhis, Calvin, assignor to himself and A. Shenfield, New York, N. Y. Suspender-end.....	366,536	July 12	1062	289	40	211
Vorck, Frederick, Brooklyn, N. Y. Artificial cascade.....	356,054	Jan. 11	1082	284	38	218
Vorck, Frederick, Brooklyn, N. Y. Fastening for securing fur cuffs to coat-sleeves.....	366,705	July 19	1317	353	40	267
Voris, Franklin D., et al. (See Buchanan, James G., assignor.)						
Vosburgh, Burton V., Charlotte, Mich. Lifting-jack.....	359,651	Mar. 22	1812	460	38	1268
Vose, Richard. (See Clark, Dallas P., assignor.)						
Vose, Richard. (See Cliff Edward, assignor.)						
Votaw, Albert H., et al. (See Votaw, William H., assignor.)						
Votaw, Clarence E., et al. (See Votaw, William H., assignor.)						
Votaw, William H., assignor of two-fifths to A. H. and C. E. Votaw, Richmond, Ind. Curtain-fastener.....	370,028	Sept. 13	1031	271	40	1236
Votey, Edwin S., Detroit, Mich. Reed-organ.....	374,721	Dec. 13	789	207	41	1210
Votey, Edwin S., and J. Courville, Detroit, Mich. Reed-organ.....	374,722	Dec. 13	790	207	41	1210
Vulcan Company. (See Kittredge, Anson O., assignor.)						
Waddell, Alexander P., Union City, Tenn. Harness-saddle.....	360,256	Mar. 29	2782	707	38	1452
Waddell, Montgomery, New York, N. Y. Electrical indicator.....	371,720	Oct. 18	1400	362	41	294
Waddell, Montgomery, New York, N. Y. System of electric distribution.....	374,381	Dec. 6	299	79	41	1103

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Waddell, Robert R., Hillsborough, Ohio. Pocket-rule	358,308	Feb. 22	2262	596	38	866
Waddey, Everett. (See Burton, Watkins L., assignor.)						
Waddill, John M., Reidsville, N. C. Box	375,518	Dec. 27	1911	500	41	1443
Wade, Arthur P. W., Cedar City, Mo. Combined potato digging and harvesting machine	375,235	Dec. 20	1537	{ 403 404 }	{ 41 }	1362
Wade, Edward. (See Frye and Wade.)						
Wade, Edwin T., assignor to himself and T. A. Lee, Wesson, Miss. Chair-bottom	366,048	July 5	413	112	40	78
Wade, George A., Winchester, Mass. Button	371,864	Oct. 18	1613	416	41	336
Wade, Gilman, St. Louis, Mo., and J. C. Burruss, Carrollton, Ill. Burglar-alarm	366,537	July 12	1063	289	40	211
Wade, Joseph A., and J. Cherry, Hornsea, county of York, England. Pump	367,564	Aug. 2	302	87	40	509
Wade, William W., Medford, Mass. Button-making machine	362,335	May 3	366	{ 101 102 }	{ 39 }	545
Wadleigh, Harvey M. (See Goodhue, George J., assignor.)						
Waespi, Jacob, E. Fretz, J. Spellman, and J. Frey, Dallas, Tex. Filter	373,257	Nov. 15	1477	390	41	760
Waffenfabrik Mauser. (See Mauser, Paul, assignor.)						
Wagandt, Charles L., Baltimore, Md. Speaking-tube	375,586	Dec. 27	2017	524	41	1462
Wagandt, Charles L., and J. S. Hull, Baltimore, Md. Soldering-tool	371,806	Oct. 18	1522	{ 392 393 }	{ 41 }	317
Wagenführ, Charles, Brooklyn, N. Y. Imitation bronze or other ornamental plate for book-covers, &c.	368,741	Aug. 23	2029	537	40	863
Wagg, Solomon R., Neenah, Wis. Paper-pulp digester	373,703	Nov. 22	2154	577	41	902
Waggoner, James M., Bell's Depot, Tenn. Car-ventilation	368,030	Aug. 9	1009	271	40	652
Wagner, Carl. (See Engel and Wagner.)						
Wagner, Emanuel F., Brooklyn, N. Y. Draftsman's rule	360,545	Apr. 5	223	56	39	43
Wagner, Franz X., New York, N. Y. Type-writing machine	364,556	June 7	501	{ 134 135 }	{ 39 }	1182
Wagner, Franz X., assignor to S. T. Smith, New York, N. Y. Cut-off for gas-burners.	374,096	Nov. 29	2719	730	41	1019
Wagner, Henry, Girard, Kans. Attachment for corn-planters	368,031	Aug. 9	1010	272	40	652
Wagner, Henry J., Dayton, Mo. Corn-planter	372,725	Nov. 8	653	{ 179 180 }	{ 41 }	603
Wagner, Henry J., Dayton, Mo. Churn	373,113	Nov. 15	1255	333	41	721
Wagner, John. (See Grummann, Albert U., assignor.)						
Wagner, John, Olean, N. Y. Dumping-wagon	360,493	Apr. 5	142	34	39	27
Wagner, John and P., Atchison, Kans. Submarine excavator	372,582	Nov. 1	441	118	41	553
Wagner, Otto, Brooklyn, N. Y. Window-guard	367,478	Aug. 2	166	48	40	483
Wagner, Peter. (See Wagner, John and P.)						
Wagner, William E., Sheridan, Wyo. Ter. Lever-handle for agricultural implements	371,393	Oct. 11	935	241	41	189
Wagner, William M., et al. (See Schulz, Adolph C., assignor.)						
Wahl, Peter, North Vernon, Ind. Machine for honing razors	355,956	Jan. 11	953	249	38	193
Wahl, Peter, North Vernon, Ind. Razor	362,336	May 3	368	102	39	546
Wahra, Adolph, Milwaukee, Wis. Buckle	362,799	May 10	1047	284	39	675
Wahra, Adolph, assignor to D. Fischbeck, Milwaukee, Wis. Fly-net	360,629	Apr. 5	340	85	39	65
Wainwright, Charles D. (See Pratt and Wainwright.)						
Wainwright, George H., and P. J. Royall, Wilson, N. C. Cultivator	356,608	Jan. 25	1874	493	38	381
Wainwright, J. Gilbert. (See Wainwright, Jonathan and J. G.)						
Wainwright, Jonathan and J. G., Waukegan, Ill. Horse-collar and hame	374,328	Dec. 6	226	60	41	1088
Wainwright Manufacturing Company. (See Pratt and Wainwright, assignors.)						
Wainwright, William, San Francisco, Cal. Vapor-burner	357,798	Feb. 15	1548	403	38	727
Wainwright, William, San Francisco, Cal. Sprinkler	357,799	Feb. 15	1551	404	38	728
Wais, Christian, assignor to Wais & Roos, Cincinnati, Ohio. Sheet-metal-shearing machine	373,033	Nov. 8	1137	305	41	687
Wais & Roos. (See Wais, Christian, assignor.)						
Wait, Alfred C., Salina, Kans. Farm-rake	375,401	Dec. 27	1758	461	41	1412
Waite, Charles N., Medford, assignor of three-fourths to J. Stone, Lawrence, and J. H. Alley, Lynn, Mass. Manufacture of lactic acid	365,655	June 28	2133	.....	39	1517
Waite, Charles N., Medford, Mass., assignor to Avery Lactate Company, Portsmouth, N. H. Lactic fermentation	368,032	Aug. 9	1010	.....	40	652
Waite, Henry E. (See Ethridge, Martin V. B., assignor.)						
Waite, Henry E. (See Ethridge and Waite.)						
Waite, Henry E., New York, N. Y. Cabinet-battery	360,934	Apr. 12	771	200	39	149
Waite, Henry E., New York, N. Y. Galvanic battery	374,329	Dec. 6	227	60, 61	41	1089
Waite, Henry E., assignor to C. F. Livermore, trustee, New York, N. Y. Magneto-telephone	355,734	Jan. 11	608	158	38	129
Waite, Henry E., assignor to C. F. Livermore, trustee, New York, N. Y. Telephone	360,068	Mar. 29	2486	632	38	1398
Waite, James H., Orange, Mass. Type-writing machine	357,878	Feb. 15	1652	430	38	747
Waite, James H., Orange, Mass., assignor to Axial Type Writer Company, Portland, Me. Type-writing machine	371,997	Oct. 25	1805	{ 467 468 }	{ 41 }	381
Waite, Thomas C., Allegheny City, Pa. Pill-box	367,941	Aug. 9	885	240	40	628
Waits, John W., Rouseville, Pa. Device for making oil-wells flow	371,006	Oct. 4	404	101	41	80
Waite, George L., assignor to Edison Type Writer Company, Philadelphia, Pa. Type-writing machine	363,100	May 17	1467	389	39	760
Wakefield, James A., Chicago, Ill. Sheet-piling	370,108	Sept. 20	1154	305	40	1266
Wakefield, John E., Worcester, Mass. Folding chair	356,218	Jan. 18	1321	349	38	267
Wakeley, Seth J., New York, N. Y. Gas-governor	362,685	May 10	881	210	39	644
Wakeman, J. Erwin, and R. L. Crocker, Lockport, N. Y. Machine for constructing boxes	366,538	July 12	1064	289	40	211
Wakeman, John M., Watkins, N. Y. Fire-escape	371,483	Oct. 11	1050	273	41	213
Wakeman, John M., Watkins, N. Y. Fire-escape	375,587	Dec. 27	2018	524	41	1462
Wakeman, Uriah J., Big Rapids, Mich. Heating-drum or spark-arrester	374,436	Dec. 6	376	99	41	1118
Walden, Joseph, Orange, N. J. Strap for boots or shoes	368,313	Aug. 16	1418	375	40	737
Walden, Marion C. (See Boyd, John W., assignor.)						
Walder, Jacob, Paterson, N. J. Adjustable holder for heddle-frames of looms	371,007	Oct. 4	405	101	41	81
Waldo, Charles P., Minneapolis, Minn. Extensible vehicle	362,129	May 3	105	33	39	494
Waldo, George H., Detroit, Mich. Washing-machine	359,479	Mar. 15	1523	390	38	1199
Waldorf, George M., et al. (See Devore, Levi M., assignor.)						
Waldorf, George M., Freeport, Ill. Door-hanger	370,109	Sept. 20	1155	305	40	1266
Waldorf, J. Morris, South Bend, Ind., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Mowing-machine	375,431	Dec. 27	1799	471	41	1420
Waldron, Cornelius J., Medusa, N. Y. Curry-comb	365,885	July 5	179	46	40	36
Waldron, John, New Brunswick, N. J. Machine for winding paper and other fabrics	363,024	May 17	1366	361	39	741
Wales, Arthur, Allegheny City, assignor to G. Westinghouse, Jr., Pittsburg, Pa. Safety appliance for gas-distribution	366,539	July 12	1065	289	40	212
Wales, Joseph, East Orange, N. J. Grain-drier	363,865	May 31	2554	663	39	985
Walsh, Claes S., Chicago, Ill. Feeder for stock	364,557	June 7	503	135	39	1183
Walker, Albert J., Sheldon, Mo. Parallel-ruler for sign-writers	363,025	May 17	1368	362	39	742

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Walker, Alexander, Montreal, Quebec, Canada. Heating apparatus.....	375,662	Dec. 27	2128	{ 552 553 }	{ 41 }	1481
Walker & Co. (See King, John T., assignor.)						
Walker, Dudley D., Ogden, N. Y. Windmill.....	365,955	July 5	286	75	40	54
Walker, Edward P., Kansas City, Mo. Attachment for elevator-doors.....	357,430	Feb. 8	983	259	38	613
Walker, Edwin, Erie, Pa. Tool-handle for interchangeable tools.....	357,429	Feb. 8	982	258	38	613
Walker, Edwin, Erie, Pa. Combined surface and marking gage.....	359,336	Mar. 15	1304	338	38	1158
Walker, Francis M., Toronto, Ontario, Canada. Traction-engine driving-gear.....	357,431	Feb. 8	984	259	38	613
Walker, Francis M., Toronto, Ontario, Canada. Belt for transmitting power.....	357,432	Feb. 8	985	259	38	614
Walker, George T., Napa City, Cal. Roll for rolling nail-plates.....	355,848	Jan. 11	774	{ 203 204 }	{ 38 }	157
Walker, George T., Napa City, Cal. Nail-plate and cut-nail.....	363,866	May 31	2555	663	39	985
Walker Hardware Company, I. (See Stock, Charles F., assignor. (Reissue.)						
Walker, Harry, assignor of one-half to S. C. Biddle, Wilmington, Del. Door-check.....	364,616	June 7	572	154	39	1195
Walker, Henry A., Epping, county of Essex, assignor to Evered & Company, (limited,) London, England. Lamp-gallery.....	371,865	Oct. 18	1614	417	41	336
Walker, Horatio M., and E. R. Lockwood, Bliss, Nebr. Well-sinking machine.....	369,512	Sept. 6	357	99	40	1102
Walker, Hugh R., Detroit, Mich. Smoke-consumer.....	358,135	Feb. 22	2029	533	38	820
Walker, James F., assignor of one-half to Loewen Bros., Columbus, Kans. Harvester-cut-ter.....						
Walker, John, Cleveland, Ohio. Roller-mill.....	371,288	Oct. 11	785	201	41	162
Walker, John, Cleveland, Ohio. Making metal castings.....	361,383	Apr. 19	1428	369	39	282
Walker, John, Cleveland, Ohio. Making metal castings.....	362,337	May 3	369	102	39	546
Walker, John, Cleveland, Ohio. Belt-shifter.....	371,647	Oct. 18	1284	333	41	269
Walker, John P., Grand Forks, Dak. Ter. Stirrup.....	374,021	Nov. 29	2606	699	41	996
Walker, Leander T., South Pueblo, Colo. Transom-lifter.....	356,970	Feb. 1	318	86	38	481
Walker, Levi, Delhi, Ontario, Canada. Harness.....	362,686	May 10	882	240	39	645
Walker, Miciah, Port Huron, Mich. Shut-off box.....	372,244	Oct. 25	2187	561	41	451
Walker, Philetus. (See Tichenor and Walker.)						
Walker, Reason M., Green Camp, Ohio. Extension-trestle.....	357,879	Feb. 15	1658	431	38	747
Walker, Robert, Harrisville, Ohio. Neck-yoke.....	365,886	July 5	180	46	40	36
Walker, Robert L., assignor of one-half to W. Lumb, Boston, Mass. Lining for furnaces.....	360,494	Apr. 5	143	34, 35	39	27
Walker, Russ B., Boston, Mass. Banjo.....	360,935	Apr. 12	773	201	39	149
Walker, Samuel S., Warren, R. I. Shuttle-check for looms.....	366,358	July 12	831	223	40	164
Walker, Samuel S., Warren, R. I., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Weft check or drag for looms.....	355,804	Jan. 11	709	185	38	146
Walker, Sydney F., Cardiff, England. Galvanic battery.....	361,794	Apr. 26	2013		39	399
Walker, Thomas, Portland, Oreg. Universal joiner.....	362,338	May 3	370	{ 102 103 }	{ 39 }	546
Walker, William, Scandia, Kans. Cornstalk-cutter.....	359,300	Mar. 15	1255	325	38	1149
Walker, William E., and G. E. Wilbur, Taunton, Mass. Grate for heating-stoves.....	370,362	Sept. 20	1509	404	40	1334
Walker, William H. (See Eastman and Walker.)						
Walker, William H. (See Noel and Parton, assignors.)						
Walker, William H., Milford, Conn. Hame and draft-eye.....	367,479	Aug. 2	167	48	40	484
Walker, William H., and G. Eastman, Rochester, N. Y. Coating photographic paper.....	370,111	Sept. 20	1158	306	40	1266
Walker, William H., and G. Eastman, assignors to Eastman Dry Plate and Film Company, Rochester, N. Y. Coating photographic paper.....	370,110	Sept. 20	1156	306	40	1266
Walker, William L., Kent, Ohio. Cash-carrier.....	369,038	Aug. 30	2448	649	40	952
Walker, William S., and J. L. Miller, Colorado Springs, Colo. Water-proof roof-paint.....	364,065	May 31	2840		39	1040
Walker, William V., assignor of one-half to W. J. H. Parker, Moravia, N. Y. Cultivator.....	357,250	Feb. 8	745	193	38	568
Walker, Zechariah, Trenton, N. J. Adjustable flower-stand.....	375,519	Dec. 27	1912	501	41	1443
Walkinshaw, James A. (See Brooks, Lawson L., assignor.)						
Walkup, Vincent A. (See Mathias and Walkup.)						
Wall, Andrew R., assignor of one-half to E. Wall, Dayton, Ohio. Cider-press.....	375,028	Dec. 20	1255	328	41	1305
Wall, Ashbel T., Providence, R. I. Making part-plated wire.....	374,097	Nov. 29	2721	730	41	1019
Wall, Edward. (See Wall, Andrew J., assignor.)						
Wall, Ellis W., Pishelville, Nebr. Rubber back-pad for harness.....	372,882	Nov. 8	910	{ 245 246 }	{ 41 }	647
Wall, Enos A., Salt Lake City, Utah Ter. Ore-separator.....	368,033	Aug. 9	1011	272	40	652
Wall, Enos A., Salt Lake City, Utah Ter. Crushing-roll.....	372,583	Nov. 1	442	118	41	553
Wall, Henry D. B., Liverpool, county of Lancaster, England. Metal box.....	368,985	Aug. 30	2375	631	40	939
Wall, Joseph, Bootle, county of Lancaster, England. Jury-rudder.....	367,871	Aug. 9	775	209	40	607
Wall, Oscar J., et al. (See Wilson, George W., assignor.)						
Wall, Patrick, Kalamazoo, Mich. Switch.....	355,360	Jan. 4	94	25	38	20
Wall & Pursel. (See Stoddard, Henry M., assignor.)						
Wallace, Arthur H., Houghton, Mich. Shaving apparatus.....	364,691	June 14	675	181	39	1224
Wallace, David A., Batavia, N. Y. Malt-drier.....	360,257	Mar. 29	2783	{ 707 708 }	{ 38 }	1452
Wallace, Ebenezer F., Cochran, and J. Wyman, Jr., Wilkesburg, Pa. Automatic safety-valve.....	375,029	Dec. 20	1255	328	41	1306
Wallace, Edward L. (See Barnard and Wallace.)						
Wallace, Ira F., Altoona, Wis. Exhaust mechanism for locomotives.....	356,562	Jan. 25	1816	475	38	369
Wallace, J. Bennett. (See Clark, Wallace, and Kindlen.)						
Wallace, J. Bennett, assignor to G. M. Clark & Company, Chicago, Ill. Gasoline-stove.....	359,112	Mar. 8	1005	259	38	1096
Wallace, J. Bennett, assignor to G. M. Clark & Company, Chicago, Ill. Generating gaso-line-burner.....	369,826	Sept. 13	706	190	40	1177
Wallace, J. Bennett, assignor to G. M. Clark & Company, Chicago, Ill. Vapor-stove.....	370,431	Sept. 27	1616	431	40	1361
Wallace, John B., Walla Walla, Wash. Ter. Derrick.....	363,101	May 17	1470	389	39	762
Wallace, John J., Mount Zion, Ill. Trace-buckle.....	373,209	Nov. 15	1414	373	41	748
Wallace, John S., Nelsonville, Ohio. Frame for power-drilling machines.....	360,183	Mar. 29	2679	676	38	1432
Wallace, Marshal, Little Rock, Ark. Separator for cotton-seed-oil mills.....	366,540	July 12	1066	290	40	212
Wallace, Morris H., West Dryden, N. Y. Axle-lubricator.....	363,924	May 31	2640	685	39	1000
Wallace, Robert J., Denver, Colo. Apparatus for manuscript-copying.....	359,582	Mar. 15	1696	433	38	1230
Wallace, Samuel, assignor of one-half to H. F. Soule, Washington, D. C. Door-check.....	373,543	Nov. 22	1933	512	41	857
Wallace & Sons. (See Bryant and Richardson, assignors.)						
Wallace & Sons. (See Wallace, William, assignor.)						
Wallace, Thomas, New York, N. Y. Conduit for electrical distribution.....	371,111	Oct. 4	539	137	41	107
Wallace, William. (See Doriot, Victor, assignor.)						
Wallace, William, assignor to Wallace & Sons, Ansonia, Conn. Machine for drawing wire.....	367,733	Aug. 2	579	157	40	560
Wallace, William W., Frankfort, Ind. Clay-crusher.....	369,086	Aug. 30	2523	669	40	967
Wallach, Joseph G., New York, N. Y. Making shirt-bosoms.....	364,066	May 31	2840	737	39	1040
Waller, James B., et al. (See Prosser, Treat T., assignor.)						
Waller, Samuel, Cleveland, Ohio. Mitering-machine.....	360,630	Apr. 5	340	85	39	65
Waller, William E., Rutherford, N. J. Variable ticket.....	371,008	Oct. 4	406	101	41	81
Walling, Stephen P., South Edmeston, N. Y. Grinding-mill.....	372,726	Nov. 8	657	180	41	604

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Wallis, Benjamin. (See Moon, George W., assignor.)						
Wallis, Francis B., Everett, Mass. Electric sole.	360,127	Mar. 29	2596	657	38	1416
Wallis, Harry E., Janesville, Wis., assignor to G. W. Nichols, Chicago, Ill., and Bower City Machine Company, Janesville, Wis. Shifting attachment for vehicle-shafts	372,394	Nov. 1	165	47	41	501
Wallmann, Henning F., Chicago, Ill. Elevator	373,114	Nov. 15	1256	{ 333 334 }	{ 41 }	721
Wallower, Elias Z., <i>et al.</i> (See Sullenberger, Samuel A., assignor.)						
Walls, Dalton, Appleton City, Mo. Combined cultivator, harrow, and seeder	371,807	Oct. 18	1523	393	41	318
Walrath, Jesse, Racine, Wis. Steam-engine	366,440	July 12	925	{ 251 252 }	{ 40 }	184
Walsh, Edward, Jr., St. Louis, Mo. Reducing zinc ore	364,979	June 14	1120	292	39	1304
Walsh, Edward, Jr., St. Louis, Mo. Blast-furnace	366,282	July 12	728	198	40	145
Walsh, Edward, Jr., St. Louis, Mo. Manufacture of rolled sheet-glass	367,565	Aug. 2	303	87, 88	40	509
Walsh, Francis A., Milwaukee, Wis. Sheet-metal vessel	359,826	Mar. 22	2077	525	38	1316
Walsh, Francis A., Milwaukee, Wis. Sheet-metal vessel	366,049	July 5	413	112	40	78
Walsh, George, and J. Boothroyd, Philadelphia, Pa. Take-up mechanism for looms	355,902	Jan. 11	865	{ 226 227 }	{ 38 }	175
Walsh, John E., New York, N. Y. Dredging-machine	357,880	Feb. 15	1658	431	38	748
Walsh, John H., Boston, Mass. Apparatus for carbonizing cement pipes, &c	375,236	Dec. 20	1539	404	41	1362
Walsh, John J. (See Harris, Henry I., assignor.)						
Walsh, Michael H., Troy, N. Y. Window-screen	356,563	Jan. 25	1817	475	38	369
Walsh, Ralph. (See Fennerty, John M., assignor.)						
Walsh, Richard P., assignor of one-fourth to M. D. Degge, St. Louis, Mo. Cable railway	360,742	Apr. 5	490	{ 125 126 }	{ 39 }	91
Walsh, Richard P., assignor of one-fourth to M. D. Degge, St. Louis, Mo. Cable railway	360,743	Apr. 5	492	126	39	92
Walsh, Richard P., assignor of one-fourth to M. D. Degge, St. Louis, Mo. Cable-grip	360,744	Apr. 5	492	{ 126 127 }	{ 39 }	92
Walsh, Robert E., New York, N. Y. Hoisting-sling	355,361	Jan. 4	95	25	38	20
Waltemeyer, Joseph. (See Nolen, Bishop, and Waltemeyer.)						
Walter, Edward, Koytesville, Mo. Pole-yoke	374,220	Dec. 6	70	18	41	1060
Walter, Edward P. and H. C., Bridgeport, Conn. Metal-planing machine	364,980	June 14	1122	{ 292 293 }	{ 39 }	1304
Walter, Hamilton F., York, Pa. Fly-net	368,034	Aug. 9	1012	272	40	652
Walter, Henry C. (See Walter, Edward P. and H. C.)						
Walter, Henry C., Bridgeport, Conn., assignor to J. W. Johnson, Philadelphia, Pa. Bottle-stopper	370,291	Sept. 20	1405	378	40	1314
Walter, Henry E., Clifton, and C. Batchelor, New York, N. Y. Dynamo-electric machine	360,258	Mar. 29	2787	709	38	1453
Walter, Henry E., Clifton, and C. Batchelor, New York, N. Y. Dynamo-electric machine	360,259	Mar. 29	2788	709	38	1453
Walter, Henry E., Clifton, assignor to himself and C. Batchelor, New York, N. Y. Dynamo-electric machinery	373,034	Nov. 8	1139	305	41	688
Walter, Samuel, Dallas City, Ill. Buck-saw	368,632	Aug. 23	1866	498	40	832
Walter, Virgil W. (See Steel, Robert, assignor.)						
Walter, William P., Newton, Kans. Stove-pipe fastener	372,395	Nov. 1	166	47	41	501
Walter, Willie C., Richmond, Va. Crib attachment for beds	370,112	Sept. 20	1161	{ 306 307 }	{ 40 }	1266
Walter, Wright, New York, N. Y. Adjustable stone-saw sash	361,033	Apr. 12	922	234	39	176
Walters, Andrew J., Kirksville, Mo. Check-row attachment for corn-planters	364,981	June 14	1126	294	39	1305
Walters, Andrew J., deceased, Kirksville, Mo.; W. W. Walters, administrator. Check-row attachment for corn-planters	369,757	Sept. 13	603	163	40	1158
Walters, Julius W., New York, N. Y. Pendulum or vibrating-piston engine	367,872	Aug. 9	776	{ 209 210 }	{ 40 }	608
Walters, Julius W., New York, N. Y. Piston-packing	367,873	Aug. 9	779	210	40	608
Walters, Julius W., Port Richmond, N. Y. Tubular expansion-boiler	372,346	Nov. 1	91	27	41	488
Walters, Julius W., Port Richmond, N. Y. Furnace and boiler	372,584	Nov. 1	442	119	41	554
Walters, William J., Prospect, N. Y. Buckle	374,022	Nov. 29	2607	699	41	996
Walters, William W., administrator. (See Walters, Andrew J.)						
Walters, William W., Salem, Mo. Automatic corn-dropping attachment	374,815	Dec. 13	922	241	41	1236
Walthall, Charles J., Petersburg, Va. Bread-raiser	366,050	July 5	414	112	40	78
Walther, Annie, and M. Supple, Fond du Lac, Wis. Garment-fastener	365,452	June 28	1825	475	39	1457
Walther, John, Brooklyn, N. Y. Sheet-delivery for printing-machines	371,721	Oct. 18	1402	362	41	294
Waltman, William M., Bean Blossom, Ind. Mole-trap	374,765	Dec. 13	849	223	41	1222
Walton, Charles, <i>et al.</i> (See Peebles, Edwin C., assignor.)						
Walton, Charles E., Hamilton, Ohio. Gynecological stirrup	358,513	Mar. 1	132	33	38	928
Walton, George L., Bougere, La. Mail-bag fastener	373,321	Nov. 15	1574	417	41	779
Walton, Joseph J. (See Gavit, Clark R., assignor.)						
Walton, Pierson T., Sutton, Nebr. Remedy for hog-cholera	359,652	Mar. 22	1813	.....	38	1268
Walton, Will N., <i>et al.</i> (See McKenzie, Daniel, assignor.)						
Walton, William, Moorestown, N. J. Sash-holder	360,631	Apr. 5	341	85	39	65
Walworth, Caleb C. (See Hall, Osborn B., assignor.)						
Walworth, Caleb C., Boston, Mass. Pipe-cutter	365,887	July 5	181	46	40	36
Walzer, Justin, Chaux de Fonds, Switzerland. Door spring and lock	360,632	Apr. 5	342	85, 86	39	65
Wambold, Jacob W., <i>et al.</i> (See Hayes, Miles T., assignor.)						
Wamsley, William F., Walla Walla, Wash. Ter. Electrical contact device for hose-couplers	364,559	June 7	506	136	39	1183
Wamsley, William F., and T. McIntosh, Walla Walla, Wash. Ter. Electrical contact device for hose-couplers	364,558	June 7	504	{ 135 136 }	{ 39 }	1183
Wandrey, George, and R. J. Schimper, Jersey City, N. J., assignors to A. K. Lissberger, New York, N. Y. Artificial fuel	367,014	July 19	1716	.....	40	341
Wandrey, George, and R. J. Schimper, Jersey City, N. J., assignors to A. K. Lissberger, New York, N. Y. Artificial fuel	367,015	July 19	1716	.....	40	341
Wands, John C., St. Louis, Mo. Railway-car ventilator	370,667	Sept. 27	1973	{ 522 523 }	{ 40 }	1427
Wanner, Martin, Robinson, assignor of one-half to J. A. Hall, Axial, Colo. Car-heater	374,766	Dec. 13	850	223	41	1222
Waplington, William W., West Middlesex, Pa. Gas-furnace	370,578	Sept. 27	1847	490	40	1402
Warburton, Frederick T., Newport News, Va. Bale-tie	370,508	Sept. 27	1736	461	40	1383
Warburton, Frederick T., Newport News, Va. Tying cotton-bales and appliance therefor	372,188	Oct. 25	2106	540	41	434
Ward, Andrew J., Boston, Mass. Apparatus for evaporating and bleaching glue	363,026	May 17	1369	362	39	742
Ward & Co., W. H. (See McHugh, Timothy, assignor.)						
Ward & Co., William H. (See McHugh, Timothy, assignor.)						
Ward, Charles T., <i>et al.</i> (See Clark, John C., assignor.)						
Ward & Curley. (See McHugh, Timothy, assignor.)						
Ward, Edward O. (See Tefft, Harvey P., assignor.)						
Ward, Frederick and S. A., Sheffield, county of York, England. Horseshoe	363,925	May 31	2641	685	39	1000
Ward, Henry H., Batavia, Ill. Steam-generator	359,193	Mar. 8	1105	287	38	1114

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Ward, James F., Providence, R. I. Syringe-reservoir.....	373,322	Nov. 15	1575	417	41	779
Ward, Leander H., Walnut, Ohio. Wheel check-rower and drill combined.....	369,974	Sept. 13	948	250	40	1221
Ward, Samuel R. (See Downing and Ward.)						
Ward, Seth, Princeton, Ind. Rein-guide.....	361,472	Apr. 19	1545	400	39	303
Ward, Sydney A. (See Ward, Frederick and S. A.)						
Ward, William, Bay City, Mich. Saw.....	364,787	June 14	844	221	39	1252
Ward, William, Council Bluffs, Iowa. Drafting-square.....	368,797	Aug. 23	2102	556	40	876
Ward, William E., Port Chester, N. Y. Bolt-heading machine.....	369,375	Sept. 6	94	29	40	1052
Ward, William M., Grand Blanc, Mich. Device for operating carriage-tops.....	372,948	Nov. 8	1002	270	41	664
Ward, William M., Grand Blanc, Mich. Carriage-top.....	372,949	Nov. 8	1004	270 271	41	664
Ward, William S., assignor to H. D. Smith & Co., Plantsville, Conn. Lifting device for drop-hammers.....	357,433	Feb. 8	986	259	38	614
Ward, William W., assignor to himself, J. R. Cook, and C. A. McNeal, Eaton, Ohio. Motor for pumps.....	371,009	Oct. 4	406	101	41	81
Wardall, William T., near Manly Junction, Iowa. Double cutter-bar.....	375,237	Dec. 20	1541	404	41	1362
Warde, George H., Brooklyn, assignor of one-half to A. MacGruthar, New York, N. Y. Switch-board for electric-light systems.....	358,309	Feb. 22	2262	596	38	866
Warden, Henry, Philadelphia, Pa. Feed-water heater.....	358,514	Mar. 1	132	33	38	928
Warden, Henry, Philadelphia, Pa. Sectional boiler.....	364,982	June 14	1127	294	39	1306
Warden, William R., Somerville, assignor of one-half to D. H. Bishop, West Medford, Mass. Sewer and waste pipe trap.....	367,686	Aug. 2	495	136	40	544
Wardman, William, Bristol, Pa. Wool-combing machine.....	355,489	Jan. 4	255	67	38	52
Wardwell, Charles W., Annelly, Kans. Corn-harvesting machine.....	360,069	Mar. 29	2487	632	38	1398
Wardwell, Charles W., assignor of one-half to W. O. Pulley, Freeport, Kans. Weed-cutting attachment for railway-cars.....	369,039	Aug. 30	2449	650	40	953
Wardwell Sewing Machine Company. (See Wardwell, Simon W., Jr., assignor.)						
Wardwell, Simon W., Jr. (See Metcalf, George A., assignor.)						
Wardwell, Simon W., Jr., Woonsocket, R. I., assignor to W. P. Earle, trustee, Brooklyn, N. Y. Feeding mechanism for sewing-machines.....	355,735	Jan. 11	608	159	38	129
Wardwell, Simon W., Jr., Woonsocket, R. I., assignor to W. P. Earle, trustee, Brooklyn, N. Y. Rotary take-up for sewing-machines.....	357,251	Feb. 8	747	193 194	38	568
Wardwell, Simon W., Jr., assignor to Wardwell Sewing Machine Company, Woonsocket, R. I. Manufacture of shoes.....	365,888	July 5	183	47	40	36
Wardwell, Simon W., Jr., Woonsocket, R. I., assignor to Wardwell Sewing Machine Company, New York, N. Y. Thread-controlling device for sewing-machines.....	371,648	Oct. 18	1285	333	41	269
Ware, Elijah, Omaha, Nebr. Injector.....	368,798	Aug. 23	2103	557	40	876
Ware, Francis M., and G. W. Benjamin, North Bend, Ohio. Seal-lock.....	366,903	July 19	1579	422	40	315
Ware, Walter, Chandler, Minn. Wire-tightener.....	373,914	Nov. 29	2457	660	41	967
Warfel, Jacob. (See McKendree, Albert C., assignor.)						
Warfield, Oliver D., Chicopee Falls, Mass. Calipers.....	364,067	May 31	2841	737	39	1040
Waring, Arthur B., Yonkers, N. Y. Hat.....	356,673	Jan. 25	1966	516	38	398
Waring, George E., Jr., Newport, R. I., assignor to Drainage Construction Company, Boston, Mass. Settling-basin or grease-trap.....	357,349	Feb. 8	871	229	38	592
Waring, John B., New York, N. Y. Pulverizing-machine.....	357,434	Feb. 8	987	260	38	614
Waring, John B., New York, N. Y. Feeder for pulverizing-machines.....	357,435	Feb. 8	991	261	38	614
Waring, John T. (See Wilson, John C., assignor.)						
Waring, John T., Yonkers, N. Y. Felting-machine for hat-bodies, &c.....	357,350	Feb. 8	872	230	38	592
Waring, Richard S., Pittsburg, Pa. Joint for lead-covered cables.....	371,808	Oct. 18	1525	393	41	318
Warnecke, Gustav, assignor of one-half to A. Von Neufville, Frankfort-on-the-Main, Germany. Portable cooking apparatus.....	367,170	July 26	1941	523	40	390
Warner, Charles D., Ansonia, Conn. Secondary electric-clock movement.....	363,440	May 24	1930	507	39	860
Warner, Charles E., Melvern, Kans. Traction-wheel.....	363,027	May 17	1371	362	39	742
Warner, Elmer E., Brooklyn, N. Y. Shoe-lace fastener.....	375,402	Dec. 27	1759	461	41	1412
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Multiple-switch-board system of telephone-exchanges.....	356,859	Feb. 1	164	44	38	453
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Commutator for dynamo-electric machines.....	361,973	Apr. 26	2282	593	39	446
Warner, Ezra J., assignor to A. Phelps, Newark, N. J. Machine for making button-eyes.....	365,416	June 28	1767	459 460	39	1446
Warner, Frederick A., Halifax, Nova Scotia, Canada. Extension fire-ladder.....	365,556	June 28	1986	517 518	39	1490
Warner, George A., Des Moines, Iowa. Stop or curb box.....	358,515	Mar. 1	134	34	38	928
Warner, George W., Freeport, Ill. Stove-pipe damper.....	364,322	June 7	156	43	39	1118
Warner, George W., Freeport, Ill. Hinge.....	374,098	Nov. 29	2722	730	41	1019
Warner, Henry H. (See Small and Warner)						
Warner, John. (See Bailey and Warner.)						
Warner, Louis P., assignor of one-half to W. E. Williams, Rochester, N. Y. Machine for making buttons.....	360,367	Mar. 29	2939	747	38	1479
Warner, Luther J., et al. (See Leigh, Lewis E., assignor.)						
Warner, Milan B., Holyoke, Mass. Photographic-plate holder.....	367,480	Aug. 2	169	48	40	484
Warner, Milan P., Holyoke, Mass. Plate-holder for cameras.....	372,778	Nov. 8	744	202	41	618
Warner, Simon P., assignor to J. Lake, Rockford, Ill. Knife for cutting grain-bands.....	365,714	June 28	2219	578 579	39	1531
Warnock, David W., Lexington, Ky. Combination-tool for squaring, leveling, &c.....	359,372	Mar. 15	1357	351	38	1168
Warren, Adda J., New Orleans, La. Foot-scraper.....	362,237	May 3	244	70	39	520
Warren, Benjamin F., Boston, Mass. Grate.....	356,433	Jan. 18	1627	426	38	325
Warren, Benjamin F., assignor to H. W. Tilton, Boston, Mass. Car-coupling.....	363,783	May 24	2435	631	39	957
Warren, Benjamin F., Boston, Mass., assignor to Addax Basting Machine Company, Portland, Me. Presser-foot for sewing-machines.....	369,141	Aug. 30	2587	687	40	981
Warren, Charles, Ipswich, England. Lawn-mower.....	362,339	May 3	374	103	39	547
Warren & Co., S. D. (See Cloudman, Francis A., assignor.)						
Warren, E. Burgess, Philadelphia, Pa. Portable heater.....	375,109	Dec. 20	1375	357	41	1328
Warren, Edmond A., Brooklyn, N. Y. Numbering-machine.....	359,751	Mar. 22	1963	497 498	38	1295
Warren, Edmond A., assignor to himself and T. J. Moore, Brooklyn, N. Y. Fly-hook.....	361,099	Apr. 12	1014	256	39	194
Warren, Edward B., Plankinton, Dak. Ter. Car-brake.....	369,897	Sept. 13	820	218	40	1198
Warren, Edward K., Three Oaks, Mich. Whip.....	356,181	Jan. 18	1270	335	38	258
Warren, Edward K., Three Oaks, Mich. Textile eyelet for corsets, &c.....	371,394	Oct. 11	936	241	41	190
Warren, George H. (See Hawks and Warren.)						
Warren, George H., Shelburne Falls, Mass. Tool-holder.....	373,503	Nov. 22	1863	495	41	844
Warren, Henry C., Boston, Mass. Pillow-sham holder.....	360,633	Apr. 5	343	86	39	66
Warren, Henry H., Côté St. Paul, Montreal, Quebec, Canada. Mechanism for forging hammers.....	359,113	Mar. 8	1005	259	38	1096

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Warren, John B., assignor of one-half to W. L. Hawes, Wakefield, Mass. Sprinkler for horticultural and other purposes.	368,259	Aug. 16	1348	{ 355 356 }	{ 40 }	723
Warren, John K., <i>et al.</i> (See Hartley, Charles J., assignor.)						
Warren, Joseph A. (See Richardson and Warren.)						
Warren, Joseph A. (See Smith, John A., assignor.)						
Warren, Joseph A., Detroit, Mich., assignor of one-half to J. A. Smith, York, Pa. Octave-coupler	372,727	Nov. 8	658	180	41	604
Warren, Leverett D., assignor of one-half to W. D. Manchester, Chicopee, Mass. Spoke-socket	370,432	Sept. 27	1617	431	40	1361
Warren, Marion, assignor to Eureka Spund Apparatus Company, Rochester, N. Y. Safety check-valve	365,656	June 28	2134	558	29	1517
Warren, Oliver B. (See Mitchell and Warren.)						
Warren, Sarah M., assignor to L. Schiele & Company, Brooklyn, N. Y. Corset	366,359	July 12	832	223	40	164
Warren, Seth W., Olean, N. Y. Washing-machine	371,395	Oct. 11	937	241	41	190
Warren Tube Company. (See Allderdice, Winslow, assignor.)						
Warrington, Henry W. (See Perrot and Warrington.)						
Warrior Mower Company. (See Elliott, Mathew G., assignor)						
Warsaw, Edward, Riceville, Iowa. Bob-sled	361,560	Apr. 19	1655	429	39	325
Warth, Albin, Stapleton, N. Y. Cloth-cutting machine	363,705	May 24	2329	604	39	936
Warth, Albin, Stapleton, N. Y. Pump	364,068	May 31	2842	{ 737 738 }	{ 39 }	1041
Warth, Albin, Stapleton, N. Y. Lubricator	372,997	Nov. 8	1076	{ 287 288 }	{ 41 }	677
Warttinger, Gottlob, Berlin, Germany. Portable dumping apparatus	360,260	Mar. 29	2790	{ 709 710 }	{ 38 }	1453
Warttinger, Gottlob, Berlin, Germany. Gate-opening device for dumping-cars	360,261	Mar. 29	2793	{ 710 711 }	{ 38 }	1454
Warttinger, Gottlob, Berlin, Germany. Machine-brake	363,441	May 24	1932	507	39	860
Warwick, G. Fred., Brockport, N. Y. Fire-escape	368,633	Aug. 23	1867	498	40	832
Warwick, George T. (See Warwick, Thomas, assignor.)						
Warwick, George T., Springfield, Mass. Machine for forming hollow metallic wheel-rims	360,936	Apr. 12	774	201	39	150
Warwick, George T., Springfield, Mass. Bicycle	362,407	May 3	464	{ 128 129 }	{ 39 }	565
Warwick, Thomas, Aston, near Birmingham, county of Warwick, England, assignor to G. T. Warwick, Springfield, Mass. Wheel rim and tire	362,472	May 3	566	157	39	583
Washburn, Albert L. (See Smith and Washburn.)						
Washburn, Charles F., and F. H. Daniels, Worcester, Mass. Plant for making wire rods from fluid metal	362,687	May 10	883	{ 240 241 }	{ 39 }	645
Washburn, Charles F., and F. H. Daniels, Worcester, Mass. Apparatus for making wire rods from fluid metal	362,688	May 10	886	241	39	645
Washburn, Francis M., assignor to L. Klein, Lafayette, Ind., and I. Stern, New York, N. Y. Hair-clipper	356,434	Jan. 18	1628	426	38	326
Washburn, Frank S., Chicago, Ill. Weighing-scale	375,520	Dec. 27	1914	502	41	1443
Washburn, Freeman C., Wellsborough, Pa. Capping, decapping, and crimping implement	355,362	Jan. 4	96	26	38	20
Washburn & Moen Manufacturing Company. (See Lenox, Edwin S., assignor.)						
Washburn & Moen Manufacturing Company. (See Lenox and Cook, assignors.)						
Washburn, Nathan, Allston, Mass. Railway-car wheel	356,906	Feb. 1	230	64	38	464
Washburn, Nathan, Allston, Mass. Car-wheel	356,907	Feb. 1	230	64	38	464
Washburn, Samuel N., Union, Oreg. Lasting-machine	361,473	Apr. 19	1545	400	39	303
Washburn, William E., Media, Kans. Washing-machine	358,310	Feb. 22	2264	597	38	866
Washburn, William H. (See Kirchner and Washburn.)						
Washburn, William J. (See Townley and Washburn.)						
Washington Mills Company. (See Sampson and Jealous, assignors.)						
Wass, Holmes N., Vinton, Iowa. Steam-generator	366,283	July 12	730	198	40	145
Wassell, Ann I. (See Wassell, Edwin D., assignor.)						
Wassell, Edwin D., assignor to A. I. Wassell, Pittsburg, Pa. Eliminating carbon from steel	361,795	Apr. 26	2014	-----	39	399
Wassell, Edwin D., assignor to A. I. Wassell, Pittsburg, Pa. Roll for reducing old rails to flat bars	365,453	June 28	1825	475	39	1457
Wasserman, Adolph, Philadelphia, Pa. Gas-burner	355,805	Jan. 11	709	185	38	147
Wasserman, George, Aussersihl-Zurich, Switzerland. Circular loom	359,414	Mar. 15	1428	{ 365 366 }	{ 38 }	1181
Waste, Alphonso D. (See Vivion, John G., assignor.)						
Water Pipe Protection Company. (See Harney, Benjamin M., assignor.)						
Water-Waste Prevention Company. (See Thomson, John, assignor.)						
Waterbury Brass Company. (See Lowell, Walter N., assignor.)						
Waterbury Clock Company. (See Bannatyne, Archibald, assignor.)						
Waterbury Watch Company. (See Hart, George E., assignor.)						
Waterfield, James W., assignor of one-half to N. B. Waterfield, Sharon, Tenn. Singletree	363,442	May 24	1933	507	39	860
Waterfield, Napoleon B. (See Waterfield, James W., assignor.)						
Waterhouse, Addison G., assignor to Waterhouse Electric and Manufacturing Company, Hartford, Conn. Electric-arc lamp	366,613	July 12	1184	317	40	234
Waterhouse, Addison G., assignor to Waterhouse Electric and Manufacturing Company, Hartford, Conn. Electric-arc lamp	366,614	July 12	1185	317	40	234
Waterhouse, Addison G., assignor to Waterhouse Electric and Manufacturing Company, Hartford, Conn. Automatic rheostat and contact-point	375,403	Dec. 27	1761	462	41	1413
Waterhouse, Amelia A., San Francisco, Cal. Reversible broiler or toaster	364,323	June 7	157	44	39	1118
Waterhouse Electric and Manufacturing Company. (See Waterhouse, Addison G., assignor.)						
Waterhouse, Kate V., Detroit, Mich. Glove-protector	356,385	Jan. 18	1558	410	38	313
Waterman, John, and N. A. Gray, Villisca, Iowa. Railway-rail bracket	370,292	Sept. 20	1407	378	40	1314
Waterman, John H., Cheboygan, Mich. Combined hot-air and steam heating apparatus	371,010	Oct. 4	407	102	41	81
Waterman, Lewis E., assignor to Moline Plow Company, Moline, Ill. Grain-drill	365,109	June 21	1320	350	39	1349
Waterous, Charles H., Brantford, Ontario, Canada. Portable engine	358,952	Mar. 8	792	{ 199 200 }	{ 38 }	1055
Waterous, Charles H., Jr., Brantford, Ontario, Canada. Boiler attachment	367,481	Aug. 2	170	49	40	484
Waterous, John, St. Louis, Mo. Rein-guard for vehicles	360,495	Apr. 5	144	35	39	27
Waters, Charles T., Butler, Ga. Combined planter and fertilizer-distributor	366,904	July 19	1580	423	40	315
Waters, George F., Boston, Mass. Wardrobe-hook	359,114	Mar. 8	1008	259	38	1096
Waters, James, Minneapolis, Minn. Steam-generator	362,558	May 10	685	192	39	609
Waters, James, Minneapolis, Minn. Steam-generator	365,889	July 5	184	47	40	36
Waters, John T., Massillon, Ohio. Lubricant-distributor	363,565	May 24	2122	550	39	897
Waters, Nelson H., Ellis, Kans. Bedstead-fastening device	357,252	Feb. 8	749	194	38	569
Waters, Philo B. (See Ford and Waters.)						
Waters, Zera, and J. B. Stoutemyer, Bloomington, Ill. Lamp-stove	358,235	Feb. 22	2161	570	38	846

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Waterstraw, John, Farmington, N. Y. Toy	361,735	Apr. 26	1925	499	39	382
Waterstreet, Stephen A. (See Stearns and Waterstreet.)						
Watkin, Henry S. S., The Wilderness, Cantwell Road, Woolwich, county of Kent, Eng- land. Rotary indicator and dial-scale for aneroid barometers	364,692	June 14	677	181	39	1224
Watkins, Alfred E., South Orange, N. J. Hydraulic mining pump or ram	355,669	Jan. 4	506	134	38	99
Watkins, Edwin D. (See Gillett, Schuyler L., assignor.)						
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Terminal for electric conductors	355,423	Jan. 4	172	45	38	35
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Telephone-receiver	355,424	Jan. 4	173	45	38	35
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Central-office telephone switch-board	355,425	Jan. 4	173	45	38	35
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Telephone-transmitter	355,426	Jan. 4	174	46	38	35
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Automatic telephone-switch	357,051	Feb. 1	435	{ 115 116 }	{ 38 38 }	502
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Telephone-signal	357,052	Feb. 1	437	116	38	503
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Telephone-hook	357,053	Feb. 1	438	116	38	503
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Krotophone-receiver	357,054	Feb. 1	439	117	38	503
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Telephone	369,376	Sept. 6	98	30	40	1052
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Krotophone	369,377	Sept. 6	99	30	40	1052
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Krotophone-receiver	369,378	Sept. 6	100	30	40	1052
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Telephone-transmitter	369,379	Sept. 6	100	30	40	1052
Watkins, Frank C., Philadelphia, Pa., assignor, by mesne assignments, to United States Krotophone Company, New York, N. Y. Telephone system	370,293	Sept. 20	1407	378	40	1315
Watkins, Frank M., assignor of one-half to J. T. Weighell, Cincinnati, Ohio. Starching- machine	372,189	Oct. 25	2107	540	41	435
Watkins, Frank W., assignor to C. Taber & Co., New Bedford, Mass. Fastening for pic- ture-frame backs	374,645	Dec. 13	685	180	41	1189
Watkins, George, <i>et al.</i> (See La Roy, Lester H., assignor.)						
Watkins, Harry, assignor of one-half to D. H. Gowing, Syracuse, N. Y. Manure-spreader	362,048	Apr. 26	2384	622	39	465
Watkins, Harry, Syracuse, N. Y., assignor, by mesne assignments, to A. L. Johnson, trus- tee. Manure-spreader	374,134	Nov. 29	2769	{ 744 745 }	{ 41 41 }	1027
Watkins, Henry W., Worcester, Mass. Instrument for forming tooth-crowns	374,382	Dec. 6	301	79	41	1103
Watkins, Hiram, Pueblo, Colo. Windmill	370,294	Sept. 20	1408	{ 378 379 }	{ 40 40 }	1315
Watkins, William, Waterloo, Iowa. Thill-coupling	358,708	Mar. 1	428	104	38	984
Watkins, William, assignor to C. T. Williams, Chicago, Ill. Combined bath and wash tub	360,634	Apr. 5	345	86	39	66
Watkinson, George, assignor to L. Candee & Co., New Haven, Conn. India-rubber boat	358,236	Feb. 22	2162	571	38	846
Watkinson, George, assignor to L. Candee & Co., New Haven, Conn. Making rubber boots or shoes	360,635	Apr. 5	346	87	39	66
Watmough, John G. (See Rau, Eugene, assignor.)						
Watrous, Edwin H., Pawlet, Vt. Metal-cutting shears	370,295	Sept. 20	1409	379	40	1315
Watson, Benjamin, Wilmington, Del. Hoisting-machine	356,807	Feb. 1	90	25	38	440
Watson, Benjamin F., Bridgeport, Ill. Stock-chute for farm-wagons	365,657	June 28	2138	558	39	1517
Watson, Charles H., Malden, Mass. Spool	366,800	July 19	1444	386	40	289
Watson, Charles H., assignor of one-half to J. L. McCague, Omaha, Nebr. Foot-guard for railway-crossings and similar places	371,011	Oct. 4	409	102	41	82
Watson, David E., Ballinger, Tex. Bath-tub	362,340	May 3	375	103	39	547
Watson, Elias G., assignor of one-third to H. W. Mason, New Bedford, Mass. Hose-coup- ling	366,541	July 12	1067	290	40	212
Watson, Elias G., assignor of one-third to H. W. Mason, New Bedford, Mass. Hook	366,542	July 12	1068	290	40	212
Watson, Francis M., assignor of one-third to F. H. Smith, Columbia, Tenn. Axle-skein	369,142	Aug. 30	2588	688	40	981
Watson, George. (See Trigwell, James R., assignor.)						
Watson, George F. (See Mason, James H., assignor.)						
Watson, George H., St. Louis, Mo. Feed-water heating and purifying attachment for boilers	364,453	June 7	352	96, 97	39	1155
Watson, George H., St. Louis, Mo. Feed-water heater, purifier, and circulator	364,454	June 7	354	97, 98	39	1156
Watson, Harry F., Erie, Pa. Fireproofing compound	361,196	Apr. 12	1169	.....	39	222
Watson, Harry F., Erie, Pa. Covering for steam-pipes	363,028	May 17	1372	363	39	743
Watson, James, London, England. Baling-press	367,482	Aug. 2	171	49	40	484
Watson, James, London, England. Baling-press	367,483	Aug. 2	178	50	40	485
Watson, James H., <i>et al.</i> (See Yaryan, Harvey B., assignor.)						
Watson, James O., and C. A. Sipe, Fairmount, W. Va. Wedge for mining coal	356,564	Jan. 25	1818	475	38	369
Watson, James R., Buena Vista, Colo. Pasting-machine	359,301	Mar. 15	1256	326	38	1149
Watson, Jeremiah M., Sharon, Mass. Machine for and method of forming counter-stiffen- ers for boots or shoes	364,788	June 14	845	{ 221 222 }	{ 39 39 }	1252
Watson, Jeremiah M., Sharon, Mass. Method of and apparatus for compressing shank- stiffeners	367,484	Aug. 2	182	51	40	486
Watson, Jeremiah M., Sharon, Mass. Shank-stiffener for boots or shoes	372,728	Nov. 8	659	181	41	604
Watson, John. (See Carpenter and Watson.)						
Watson, John E., assignor to International Electrical Company, Louisville, Ky. Operat- ing with electrical conductors	371,531	Oct. 11	1119	292	41	228
Watson, John E., assignor to International Electric Company, Louisville, Ky. Auto- graphic telegraphy	372,245	Oct. 25	2187	{ 561 562 }	{ 41 41 }	451
Watson, John H., assignor of one-half to J. B. Taylor, Toronto, Ontario, Canada. Earth- closet	357,253	Feb. 8	750	194	38	569
Watson, Joseph H., Savannah, Ga. Sad-iron heater	364,069	May 31	2844	738	39	1041
Watson, Josiah P., Leesburg, Tex. Motor	360,184	Mar. 29	2680	677	38	1432
Watson, Lewis F., <i>et al.</i> (See Burnley, William, assignor.)						
Watson, Lewis F., <i>et al.</i> (See Hitchcock, Charles A., assignor.)						
Watson, Lewis F., <i>et al.</i> (See Hitchcock and Burnley, assignors.)						
Watson, Lewis H., Chicago, Ill. Press for dampening shirts	373,868	Nov. 29	2391	643	41	954
Watson, Martin V. B., Altamont, Kans. Washing-machine	365,210	June 21	1456	384	39	1376
Watson, Peter H. (See Sutton and Watson.)						
Watson, Peter H., deceased, New York, N. Y.; R. R. Watson, executrix. Machine for measuring textile fabrics, &c.	359,583	Mar. 15	1698	{ 433 434 435 }	{ 38 38 }	1230

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Watson, Peter H., deceased, New York, N. Y.; R. R. Watson, executrix. Machine for plicating and packaging fabrics	359,584	Mar. 15	1708	{ 435 436 437 418 }	{ 38 39 }	1232 787
Watson, Richard, assignor of one-half to J. Grant, Detroit, Mich. Velocipede	363,189	May 17	1595	418	39	787
Watson, Robert. (See Ripson, John D., assignor.)						
Watson, Robert E., <i>et al.</i> (See Dwelle, Charles W., assignor.)						
Watson, Robert S., Bay City, Mich. Grate for boiler-furnaces	358,004	Feb. 15	1830	482	38	780
Watson, Roselle R., executrix. (See Sutton and Watson.)						
Watson, Roselle R., executrix. (See Watson, Peter H.)						
Watson, Samuel. (See Langstaff and Watson.)						
Watson, Seth F. (See Vogel and Watson.)						
Watson, William L. (See Allan, William R., assignor.)						
Watt, I. Bond, <i>et al.</i> (See Roop, Frank, assignor.)						
Watt, Joseph E., Lawrence, Mass. Pressure-regulator	361,796	Apr. 26	2015	524	39	399
Wattie, William, assignor to Knowles Loom Works, Worcester, Mass. Connecting-rod	367,566	Aug. 2	305	88	40	509
Wattie, William, assignor to Knowles Loom Works, Worcester, Mass. Shuttle for narrow-ware looms	370,910	Oct. 4	256	64	41	51
Wattles, Joseph W., Canton, Mass. Support for spinning-spindles	365,417	June 28	1770	460	39	1447
Wattles, Joseph W., Canton, Mass. Bearing for spinning-spindles	372,729	Nov. 8	660	181	41	604
Watts, Elias, Key Port, N. J. Asparagus-buncher	374,383	Dec. 6	302	80	41	1104
Watts, Isaac, <i>et al.</i> (See Leslie, J. William, assignor.)						
Watts, John W., Counterthorpe, England. Circular-knitting machine	366,747	July 19	1375	{ 368 369 }	{ 40 }	277
Watts, Robert J., and S. Cooper, Shelbyville, Ind. Wire-fence machine	361,561	Apr. 19	1656	429	39	325
Watts, Samuel C., New York, N. Y. Safeguard for watches	355,576	Jan. 4	366	98	38	73
Watts, William W., Littleton House, Athlone, county of Roscommon, Ireland. Device for holding boots or shoes	374,023	Nov. 29	2608	700	41	997
Watson, Thomas, <i>et al.</i> (See McGill, Edward K., assignor.)						
Waugaman, Boaz E., North Clarendon, Pa. Rod-coupling for oil-wells	360,745	Apr. 5	495	127	39	93
Waugh, Daniel S., Denver, Colo. Hoisting-machine	359,910	Mar. 22	2216	{ 557 558 }	{ 38 }	1340
Waughtal, George I., Mason City, Iowa. Harrow	357,254	Feb. 8	751	195	38	569
Way, George A., Middletown, Mich. Combined wood and coal stove grate	355,849	Jan. 11	776	204	38	158
Way, George W. (See Thomas, Way, and Stickney.)						
Wayland, Eli, <i>et al.</i> (See Woodhurst, Hazzard, assignor.)						
Wayland, Ellis, Gest, Ky. Churn	360,636	Apr. 5	347	87	39	66
Wayland, James, assignor of one-half to T. H. Brown, Newark, N. J. Shutter-worker	365,357	June 21	1676	437	39	1417
Wayland, James, assignor to himself and M. M. Scott, Newark, N. J. Machine for grain-ing leather	372,585	Nov. 1	444	119	41	554
Wayne, H. Albert, Fort Plain, N. Y. Railway time-signal	355,850	Jan. 11	777	{ 204 205 }	{ 38 }	158
Weakley, John C., Slate, Kans. Coverer for seeding-machines	372,190	Oct. 25	2108	541	41	435
Weakley, Joseph L. (See Cagle, Canova T., assignor.)						
Weart, Spencer. (See Whitney, Daniel D., assignor.)						
Weatherhead, Frank W., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	358,237	Feb. 22	2163	571	38	847
Weatherley, Frederic S., Quebec, Quebec, Canada. Convertible stand	366,051	July 5	415	113	40	78
Weaver, Ephraim E., <i>et al.</i> (See O'Brien, David, assignor.)						
Weaver, Frank S., Moundsville, W. Va. Fly-net for horses	364,455	June 7	356	98	39	1156
Weaver, George W., Ilion, N. Y. Clamp or press	361,339	Apr. 19	1363	350	39	269
Weaver, Henry K., Silver Spring, Pa. Cigar-mold press	370,579	Sept. 27	1849	491	40	1403
Weaver, Henry M., Mansfield, Ohio. Grain feeder and packer	363,867	May 31	2556	664	39	986
Weaver, Henry M., Mansfield, Ohio. Cash and package carrier	367,874	Aug. 9	780	{ 210 211 }	{ 40 }	608
Weaver, Henry M., Mansfield, Ohio. Cash and package carrier	369,218	Aug. 30	2683	713	40	1000
Weaver, Henry M., Mansfield, Ohio. Grate	371,112	Oct. 4	540	138	41	107
Weaver, Stanton, Washington, D. C. Switch and circuit for telegraphs	361,797	Apr. 26	2016	525	39	399
Weaver, Theophilus. (See Dodge and Weaver.)						
Weaver, Theophilus, <i>et al.</i> (See Sullenberger, Samuel A., assignor.)						
Weaver, Theophilus, Harrisburg, Pa. Return-envelope sticker	365,890	July 5	186	47	40	37
Weaver, William, Greenwich, assignor of one-half to A. G. Story, Little Falls, N. Y. Loom for weaving terry fabrics	355,736	Jan. 11	610	159	38	129
Webb, A. Stewart, New York, N. Y. Desk	371,012	Oct. 4	410	{ 102 103 }	{ 41 }	82
Webb, Browne W. (See Jensen, Webb, and Jensen.)						
Webb, Charles B., Hopkinsville, Ky. Trace-carrier	368,742	Aug. 23	2030	538	40	863
Webb, George B., Kinston, N. C. Means for operating churns	371,113	Oct. 4	542	138	41	107
Webb, John G., Lone Cedar, W. Va. Seed-planter	358,311	Feb. 22	2263	597	38	866
Webb, John T., Alton, Ill. Weed-turner	366,543	July 12	1069	290	40	212
Webb, Joseph, Beaver, assignor to Phoenix Glass Company, Pittsburg, Pa. Fancy glass-ware	363,190	May 17	1595	419	39	787
Webb, Robert M., San Francisco, Cal. Timber-roll	364,693	June 14	678	181	39	1224
Webb, Samuel J., Minden, assignor of one-half to R. N. McKellar, Shreveport, La. Car-seat	365,418	June 28	1772	460	39	1447
Webb, Samuel J., Minden, assignor of one-half to R. N. McKellar, Shreveport, La. Baling-press	370,509	Sept. 27	1737	461	40	1383
Webb, William W., Lowndes County, Ga. Plow	356,808	Feb. 1	91	25	38	440
Webber, Allen W. (See Bigelow, Don J., assignor.)						
Webber, Charles E. (See Richard, Charles D., assignor.)						
Webber, Charles E. (See Sellon and Mordey, assignors.)						
Webber, Stebbins S., La Porte, Ind. Grate for stoves	368,986	Aug. 30	2376	632	40	939
Weber, Adolph, assignor of one-half to T. S. Christie, Detroit, Mich. Steam-radiator	367,078	July 26	1815	489	40	367
Weber, August, New York, N. Y. Dental engine	356,809	Feb. 1	93	26	38	440
Weber, August, New York, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental engine	374,221	Dec. 6	71	19	41	1061
Weber, Bruno H., Freiberg, Saxony, Germany. Billiard-cue	370,911	Oct. 4	257	64	41	51
Weber, Charles F., East Saginaw, Mich. Truck	372,646	Nov. 1	535	146	41	573
Weber, Charles S., Cleveland, Ohio. Stringing pianos	361,384	Apr. 19	1430	370	39	282
Weber, Fred. A., New York, assignor to L. B. Carhart, Peekskill, N. Y. Crystal pendant for show-stands, &c.	361,245	Apr. 12	1238	315	39	235
Weber, Julius, Reading, Pa. Device for cutting box-board caps	367,875	Aug. 9	784	211	40	609
Weber, Nicholas. (See Jesson, Pierre A., assignor.)						
Weber, Nicholas. (See Thull and Weber.)						
Weber, Peter, Brooklyn, assignor to Sohmer & Co., New York, N. Y. Pianissimo-pedal for pianos	357,436	Feb. 8	993	261	38	615

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Weber, Theodor R. A., assignor to himself, C. and A. H. Tiers, New York, and J. H. Pen-dleton, Brooklyn, N. Y. Railway-signal apparatus	360,496	Apr. 5	144	36	39	27
Weber, Theodore A., assignor, by mesne assignments, to B. S. Bennett, New York, N. Y. Weighing-scale	361,246	Apr. 12	1238	316	39	235
Weber, Valentin, and J. R. Harrison, Princeville, Ill. Automatic grain-weighing machine. 359,525	359,525	Mar. 15	1601	410	38	1213
Weber, Valentine, and J. R. Harrison, Princeville, Ill. Automatic grain-weighing machine. 369,486	369,486	Sept. 6	234	66	40	1078
Weber, William, Evansville, Ind. Roller-knife	359,480	Mar. 15	1525	390	38	1200
Webster, Andrew G. (See Worcester, Henry, assignor.)						
Webster & Comstock Manufacturing Company. (See Chivill, John, assignor.)						
Webster, Edward E., Minneapolis, Minn. Paper-file	373,504	Nov. 22	1865	496	41	845
Webster, George K., North Attleborough, Mass. Button	356,386	Jan. 18	1559	410	38	313
Webster, George K., North Attleborough, Mass. Cuff-holder	366,986	July 19	1685	453	40	335
Webster, James T. (See Patterson and Webster.)						
Webster, Jerome J., Newport, Vt., assignor to Boston Cash Indicator and Recorder Com-pany, Bangor, Me. Cash indicator and register	370,363	Sept. 20	1510	405	40	1335
Webster, John, Brooklyn, N. Y. Steam-generator	368,361	Aug. 16	1480	394	40	750
Webster, John F., assignor to Champion Bar and Knife Company, Springfield, Ohio. Riv-eting-machine	357,294	Feb. 8	803	209	38	579
Webster, Joseph R., Worthville, Ky. Baling-press	358,902	Mar. 8	730	180	38	1043
Webster, William, Jonesville, S. C. Tire appliance for anvils	373,869	Nov. 29	2392	643	41	954
Webster, William S., Newark, N. J. Harness-pad	374,024	Nov. 29	2609	700	41	997
Week, August, Solingen, Prussia, Germany, assignor to G. W. Korn, New York, N. Y. Knife	358,312	Feb. 22	2266	598	38	867
Weddington, William H., assignor to himself and W. Bayly, Durango, Colo. Sash-fast-ener	369,670	Sept. 6	498	137	40	1130
Weddle, Henry, Sherman, Tex. Baling-press	374,857	Dec. 13	977	255	41	1246
Wedlake, James, assignor to A. Harris, Son & Company, (limited,) Brantford, Ontario, Can-ada. Harvester	368,260	Aug. 16	1349	356	40	723
Weed, Alfred, Tarrytown, N. Y. File-cutting machine	363,492	May 24	2015	{ 525 526 }	{ 39 39 }	{ 878 878 }
Weed, Arthur J., New York, N. Y. T-square holder	375,030	Dec. 20	1257	328	41	1306
Weed, George O. (See Lee, Charles O., assignor.)						
Weeden, Henry C., Boston, Mass. Trap	360,128	Mar. 29	2596	657	38	1416
Weeden, Henry C., Boston, Mass. Water-closet basin	362,800	May 10	1047	285	39	675
Weeks, Asa, Minneapolis, Minn. Ventilating-heater	370,580	Sept. 27	1850	491	40	1403
Weeks, Frank A., Brooklyn, N. Y. Paper-clip	356,810	Feb. 1	95	26	38	441
Weeks, Horace, Boston, Mass. Making nails	358,709	Mar. 1	429	104	38	984
Weeks, Horace, and H. D. Stone, Boston, Mass.; said Stone assignor to said Weeks. Nail-making and driving machine	358,710	Mar. 1	430	{ 104 105 106 }	{ 38 38 38 }	{ 984 984 984 }
Weeks, James L., <i>et al.</i> (See Kane, Charles, assignor.)						
Weeks, John. (See Traver and Weeks.)						
Wegman, Andrew J. (See Gleason and Clague, assignors.)						
Wehner, Christian, assignor of one-half to J. Spiess, Sr., Buffalo, N. Y. Clutch	360,262	Mar. 29	2794	711	38	1454
Weiland, William, New Bremen, Ohio. Screw-clamp pin for watch-regulators	362,559	May 10	688	192	39	610
Weidemann, Theodor R., Chicago, Ill. Traveling-bag	363,029	May 17	1373	363	39	743
Weidenboerner, George. (See Neelands, William T., assignor.)						
Weidmann, Robert, Greenville, N. J. Finger-ring	368,743	Aug. 23	2031	538	40	864
Weierman, Charles S. (See Beimling, Henry F., assignor.)						
Weigert, George H. (See Seliger, Martin, assignor.)						
Weighell, John T. (See Watkins, Frank M., assignor.)						
Weihenmayer, Sigmund H. (See Bellis, David C., assignor.)						
Weik, John, Philadelphia, Pa. Air-heating furnace	357,513	Feb. 8	1101	290	38	636
Weil, Ferdinand, New York, N. Y., assignor to himself and J. Bernheim, Menominee, Mich. Carburetor	359,585	Mar. 15	1715	437	38	1233
Weil, Lazarus. (See Valfer and Weil.)						
Weil, Leopold, New York, N. Y. Automatic electric cut-off for water-pipes	357,055	Feb. 1	440	117	38	503
Weil, Leopold, New York, N. Y. Electrical method of detecting water-overflows	357,056	Feb. 1	440	{ 117 118 119 }	{ 38 38 38 }	{ 503 503 503 }
Weimer, Asa A., Lebanon, Pa. Metal-grinding machine	372,833	Nov. 8	837	223	41	634
Weinberg, Arthur, and H. Siebert, Mainkur, near Frankfort-on-the-Main, assignors to L. Cassella & Co., Frankfort-on-the-Main, Prussia, Germany. Production of a new naph-thylamine-mono-sulphonic acid	362,560	May 10	689	.....	39	610
Weinberg, Charles, New York, N. Y. Fringe	362,689	May 10	889	242	39	646
Weindel, John A., St. Louis, Mo. Apparatus for gluing kegs and barrels	360,746	Apr. 5	496	128	39	93
Weinhaus, Theodor H., St. Cloud, Minn. Mechanical telephone	355,363	Jan. 4	96	26	38	20
Weinig, Paul, Hanau, Prussia, Germany. Malt-germinating apparatus	370,296	Sept. 20	1410	{ 379 380 }	{ 40 40 }	{ 1316 1316 }
Weinley, George, Rutland, Vt. Door-check	360,937	Apr. 12	776	201	39	150
Weinstock, Harris, <i>et al.</i> (See Lubin, David, assignor.)						
Weir, Frederic C., Cincinnati, Ohio. Machine for pulling coke from ovens	362,130	May 3	106	33	39	494
Weir, Fredric C., Cincinnati, Ohio. Railway-switch	374,099	Nov. 29	2723	{ 730 731 }	{ 41 41 }	{ 1019 1019 }
Weir, Fredric C., Cincinnati, Ohio. Switch-bar attachment	374,100	Nov. 29	2724	731	41	1020
Weir, Fredric C., Cincinnati, Ohio. Switch-stand	374,437	Dec. 6	377	99	41	1118
Weir, John, Dayton, Ohio. Measuring-jacket	358,903	Mar. 8	731	181	38	1043
Weir Plow Company. (See Weir, William S., assignor.)						
Weir, William S. (See Moore, Josiah H., assignor.)						
Weir, William S., assignor to Weir Plow Company, Monmouth, Ill. Cultivator	362,049	Apr. 26	2387	623	39	465
Weirbach, Henry T., assignor of one-half to J. M. Stevens, Allentown, Pa. Machine for turning spirals	358,176	Feb. 22	2087	550	38	832
Weis, Eduard, Wiesenthal, Bohemia, Austria-Hungary. Cutting very thin parts upon glass articles	364,324	June 7	157	.....	39	1118
Weis, Francis W., Louisa, Ky. Clothes-rack attachment	372,883	Nov. 8	911	246	41	647
Weise, Frederick A. (See Samps and Weise.)						
Weisell, David D., Fort Wayne, Ind. Artificial tooth	364,070	May 31	2845	738	39	1041
Weisell, William W. (See Fitch, Weisell, and Kapp.)						
Weisell, William W., Bluffton, Ind. Washing-machine	362,561	May 10	689	193	39	610
Weiss, Charles W., Brooklyn, N. Y. Pocket cigar-lighter	356,513	Jan. 25	1743	454	38	355
Weiss, Emil, assignor of one-half to L. Fraenkel, Berlin, Germany. Grinding-mill	374,101	Nov. 29	2725	731	41	1020
Weiss, Franz J., Basle, Switzerland, assignor of one-half to Sangerhäusern Actien-Maschin-enfabrik and Eisengiesserei, vorm. Hornung & Rabe, Sangerhäusern, Germany. Multiple-effect apparatus	371,809	Oct. 18	1526	394	41	318
Weiss, George W., Brooklyn, N. Y. Combined blackboard and desk	356,908	Feb. 1	231	64	38	464

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Weiss, Noah. (See Diehl and Weiss.)						
Weisse, Carl F. H., Ottensen, Prussia, assignor to J. H. Ehlers, Bahrenfeld, Germany. Car-coupling	369,269	Aug. 30	2750	733	40	1013
Weitz, Jacob, and H. Klassert, Buffalo, N. Y. Refrigerator	362,690	May 10	889	242	39	646
Weitzel, Henry, Minneapolis, Minn. Steam-boiler	373,954	Nov. 29	2512	676	41	977
Welch, Charles G., et al. (See Arp, Peter A., assignor.)						
Welch, D. C., et al. (See Ames, Charles H., assignor.)						
Welch, D. H. (See Hill, George W., assignor.)						
Welch, E. B. (See Littlejohn, Charles F., assignor.)						
Welch, Henry F. (See Haselton, Daniel B., assignor.)						
Welch, John M., Annapolis, Ind. Mole-trap	371,649	Oct. 18	1287	333	41	269
Welch, Lyman W., Montpelier, Vt. Wardrobe-bedstead	364,875	June 14	971	255	39	1277
Welch, Marshall M., Atlanta, Ga. Electrical circuit-closer	375,238	Dec. 20	1542	404	41	1363
Welch, Sinkin B. (See Stoner and Welch.)						
Welch, Thomas, Paw Paw, Mich. Car-coupling	373,210	Nov. 15	1415	373	41	749
Welch, William M. (See Dudley, Charles C., assignor.)						
Welch, William S., Westfield, N. J. Scaffolding	374,510	Dec. 6	484	126	41	1139
Weld, Frank A. (See Hazeltine, Benzino, and Weld.)						
Weld, George A., Winchester, Mass. Elevator	355,427	Jan. 4	175	46	38	35
Weld, Samuel P. (See Partridge, Andrew, assignor.)						
Weldon, Amos P., Edgerton, Kans. Hog or hay rack	368,362	Aug. 16	1483	{ 394 395 }	{ 40 40 }	750
Welds, Benjamin A., Jackson, Mich. Fence-machine	368,261	Aug. 16	1350	356	40	723
Welker, Lorenzo S., and H. Kiffe, Beaver Creek, Minn. Flaxseed-separator	359,044	Mar. 8	915	233	38	1078
Weller, Chester A., and C. H. Acly, Croton Landing, N. Y. Railway chair or coupler	365,658	June 28	2139	558	39	1518
Weller, Daniel H., Boyertown, Pa. Combined bench and ironing-table	356,909	Feb. 1	233	64	38	464
Weller, Eugene D., Philadelphia, Pa. Running-gear for vehicles	373,505	Nov. 22	1867	{ 496 497 }	{ 41 41 }	845
Weller, Eugene D., Philadelphia, Pa. Vehicle	373,704	Nov. 22	2157	577	41	902
Weller, George P., Louisville, Ky. Stencil-plate	360,637	Apr. 5	348	87	39	66
Weller, William H. (See Stephens, Joseph J., assignor.)						
Welling, John E., assignor of one-half to D. R. Saunders, Georgetown, Ky. Oven for oil or vapor stoves	358,762	Mar. 1	499	122	38	996
Wellington, Arthur M., New York, N. Y. Appliance for handling rapid-transit passenger traffic	371,866	Oct. 18	1615	417	41	336
Wellington, Charles A., Lexington, Mass. Open-grate stove	367,876	Aug. 9	785	212	40	609
Wellington, Darius, Boston, Mass. Service-box for water-closets	370,433	Sept. 27	1618	432	40	1362
Welliver, Harry M. (See Steuart and Welliver.)						
Welliver, Harry M., Lock Haven, Pa. Pocket-clasp	357,351	Feb. 8	875	230	38	593
Wellman, Harlan P., Catlettsburg, Ky. Centering device	372,730	Nov. 8	661	181	41	605
Wellman, Henry F., Englewood, assignor to Schniedewend & Lee Co., Chicago, Ill. Mold for casting printers' leads	358,585	Mar. 1	257	60	38	951
Wellman, Samuel T., Cleveland, Ohio. Method of and die for forming the centers and end collars of car-axles	369,487	Sept. 6	236	67	40	1078
Wellman, Samuel T., Cleveland, Ohio. Making car-axles	369,488	Sept. 6	237	67	40	1079
Wellman, Samuel T., and G. W. Goetz, Cleveland, Ohio. Revolving puddling-furnace	358,763	Mar. 1	500	123	38	996
Wellman, Samuel T., and G. W. Goetz, Cleveland, Ohio. assignors to Fuel Gas and Electric Engineering Company, (limited,) Pittsburg, Pa. Gas-plant	371,810	Oct. 18	1529	{ 394 395 }	{ 41 41 }	319
Wells, Benager E., Byron, Nebr. Railway-gate	369,624	Sept. 6	435	121	40	1118
Wells, Clarence L., assignor of one-half to R. E. Letton, Quincy, Ill. Thermostat for incubators	363,307	May 17	1744	456	39	816
Wells, Edward D., Westminster, Md. Electric railway-signal	357,881	Feb. 15	1660	{ 431 432 }	{ 38 38 }	748
Wells, Elisha, assignor of one-half to R. G. Green, West Plains, Mo. Wagon-body	374,222	Dec. 6	73	19	41	1061
Wells, Elisha, assignor of one-half to R. G. Green, West Plains, Mo. Wagon-body iron	374,223	Dec. 6	74	19	41	1061
Wells, Frank A., Allegheny, Pa. Bath-tub or sink	372,347	Nov. 1	93	27	41	489
Wells, Frank E. (See Wells, Willet C. and F. E.)						
Wells, George W., Southbridge, Mass. Cushion-securing device for spectacle-bridges	361,385	Apr. 19	1431	370	39	282
Wells, James, Paris, assignor of one-half to D. S. Price, North Middletown, Ky. Earth-auger	362,562	May 10	691	193	39	610
Wells, Jesse O., Des Moines, Iowa. Horse-grooming device	372,731	Nov. 8	662	{ 181 182 }	{ 41 41 }	605
Wells, John A., Delaware, Ohio. Ditching-machine	359,911	Mar. 22	2219	558	38	1341
Wells, John P. B., Thomaston, Conn. Micrometer-gage	373,705	Nov. 22	2160	578	41	903
Wells, Joseph L., Philadelphia, Pa., assignor to Weston & Wells Manufacturing Company, Camden, N. J. Breast-form	358,711	Mar. 1	435	106	38	985
Wells, Joseph L., Philadelphia, Pa., assignor to Weston & Wells Manufacturing Company, Camden, N. J. Bustle	358,712	Mar. 1	436	106	38	985
Wells, Lionel B., Northwich, county of Chester, England. Apparatus for taking the end-thrust of shafts	366,748	July 19	1379	369	40	278
Wells, Sallie A., Annapolis, Md. Thimble	362,593	May 10	743	205	39	618
Wells, Sherman, Manawa, Wis. Car-coupling	359,481	Mar. 15	1526	390	38	1200
Wells, Willet C., Tiffin, Ohio. Apparatus for raising water	372,097	Oct. 25	1970	{ 506 507 }	{ 41 41 }	409
Wells, Willet C. and F. E., Tiffin, Ohio. Machine for threading, cutting, and reaming	355,737	Jan. 11	612	160	38	130
Wells, William H., Springfield, Ill. Stem winding and setting watch	356,021	Jan. 11	1033	272	33	209
Wellsted, William H., Brampton, Mich. Car-coupling	363,868	May 31	2558	664	39	986
Welsh, Artemus. (See Welsh, Elmer and A.)						
Welsh, Artemus, Scottdale, Pa. Railway-spike	364,071	May 31	2847	739	39	1041
Welsh, Artemus and E., Scottdale, Pa. Oliver	357,255	Feb. 8	752	195	38	569
Welsh, Blanton C. (See Runyon, Milo B., assignor.)						
Welsh, Elmer. (See Welsh, Artemus and E.)						
Welsh, Elmer and A., Scottdale, Pa. Post or pile driver	363,706	May 24	2331	605	39	937
Welsh, James, New York, N. Y. Lubricator for drilling-machines	365,419	June 28	1773	{ 460 461 }	{ 39 39 }	1447
Welsh, Joseph C., et al. (See McRae, Charles J., assignor.)						
Weltner, Sarah H., Wellsville, Mo. Curtain-fixture	369,380	Sept. 6	101	31	40	1052
Wendell, Isaac P., assignor to T. P. Matthews, Philadelphia, Pa. Composition of matter for journal-bearings	368,634	Aug. 23	1868	.....	40	833
Wendell, Isaac P., assignor to T. P. Matthews, Philadelphia, Pa. Anti-friction composition	368,635	Aug. 23	1869	.....	40	833
Wendell, Isaac P., assignor to T. P. Matthews, Philadelphia, Pa. Anti-friction composition	368,636	Aug. 23	1870	.....	40	833
Wendté, William C. (See Clark and Wendté.)						
Wenger, Clayton S., West Earl, Pa. Nut-lock	365,285	June 21	1573	409	39	1396

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Wenham, Francis H., The Beacon, Goldsworth, Woking, county of Surrey, England. Gas-lamp	355,629	Jan. 4	436	120	38	86
Wenner, Oscar J., Allentown, Pa. Butter-worker	363,869	May 31	2559	664	39	986
Wennersten, John P., assignor of two-thirds to A. Johnson and J. A. Johanson, Chicago, Ill. Horseshoe-nail-finishing machine	358,904	Mar. 8	732	181	38	1043
Wenström, Jonas, Orebro, Sweden. Magnetic separator	373,211	Nov. 15	1415	{ 373 374 }	{ 41 }	749
Wentworth, Edwin P. (See Wilkinson, Edward, assignor.)						
Wentworth, John D., Lynn, Mass. Making button-holes	368,035	Aug. 9	1013	272	40	652
Werkheiser, Monroe, Phillipsburg, N. J., assignor of one-half to J. Dunnell, Scranton, Pa. Roller-terret	369,999	Sept. 13	984	259	40	1228
Werkman, Reinder E. (See Lamoreux, Isaac H., assignor.)						
Werkzeug und Maschinenfabrik Oerlikon. (See Brown, Charles E. L., assignor.)						
Werkzeug und Maschinenfabrik Oerlikon. (See Schweizer, Jacob, assignor.)						
Werner, August, Leadville, Colo. Tobacco-pipe	373,258	Nov. 15	1478	391	41	761
Werner, Edgar S., New York, and J. P. S. Gifford, Chatham, N. Y. Inhaler	369,849	Sept. 13	743	198	40	1184
Werner, Leopold, Newark, N. J. Belt-fastener	372,732	Nov. 8	664	182	41	605
Wernert, Ignatz. (See Newville, Miles H., assignor.)						
Wernicke, Carl, Königshütte, Prussia, Germany. Making muffles or retorts	367,079	July 26	1817	{ 489 490 }	{ 40 }	368
Werts, William, Camden, N. J. Cover-fastening for fruit-jars	356,565	Jan. 25	1819	476	38	369
Werts, William, Camden, N. J. Bottle-stopper	365,286	June 21	1574	409	39	1397
Wertz, Daniel, assignor to S. R. Payne, Fayette, Mo. Bustle	359,302	Mar. 15	1258	326	38	1150
Wertz, Daniel, assignor to S. R. Payne, Fayette, Mo. Bustle	372,098	Oct. 25	1973	507	41	410
Wertz, John S., Burlington, Iowa. Adjustable support for wire mattresses	375,432	Dec. 27	1801	471	41	1421
Werum, Phillip, Toledo, Ohio. Mail-bag clamp	358,905	Mar. 8	734	182	38	1044
Werum, Phillip, Toledo, Ohio. Combined rope-clamp and tag-holder	373,506	Nov. 22	1872	497	41	846
Wery, George E., Paris, France. Smoke-consuming furnace	373,625	Nov. 22	2048	545	41	879
Wescott, Earl A., assignor of one-half to M. Blanchard, Minneapolis, Minn. Safety-guard for railway-cars	357,800	Feb. 15	1551	404	38	728
Weske, Adolph. (See Wiese, Gustav A., assignor.)						
Wesler, Henry H., Newark, N. J. Combined sash and shutter fastener	364,456	June 7	357	98	39	1156
Wessel, Ferdinand A., Brooklyn, N. Y. System of electrical distribution	370,434	Sept. 27	1620	432	40	1362
Wessel, Frederick, New Britain, Conn. Ear-stud	363,030	May 17	1374	363	39	743
Wessell, Otto, A. Nickel, and R. Gross, New York, N. Y. Piano-action	366,360	July 12	832	223	40	164
Wesson, Daniel B., Springfield, Mass. Revolver	356,387	Jan. 18	1559	410	38	313
Wesson, Daniel B., Springfield, Mass. Barrel-catch device for revolvers	360,263	Mar. 29	2795	711	38	1454
Wesson, Daniel B., Springfield, Mass. Lock device for fire-arms	361,100	Apr. 12	1015	256	39	194
Wesson, Daniel B., Springfield, Mass. Barrel-catch and cylinder-retaining device for revolvers	361,101	Apr. 12	1017	257	39	194
Wesson, Daniel B., Springfield, Mass. Revolving fire-arm	371,532	Oct. 11	1122	292	41	228
West, Clark S., Boston, Mass. Lamp-stove	367,256	July 26	2074	{ 560 561 }	{ 40 }	416
West, David B., assignor of one-half to C. H. Bausb, Holyoke, Mass. Friction-clutch	363,493	May 24	2017	526	39	878
West, Ella E. and J. S., New York, N. Y. Skirt-supporter	368,637	Aug. 23	1870	499	40	833
West, Ella E. and J. S., assignors of one-third to B. F. Yates, New York, N. Y. Clasp	357,747	Feb. 15	1479	388	38	714
West, Frank P., Glendive, Mont. Ter. Spike-puller	359,194	Mar. 8	1106	288	38	1114
West, Gelon W. (See Porter, Abraham A., assignor.)						
West, George M., Red Oak, Iowa. Railway construction-car or track-layer	364,325	June 7	158	44	39	1118
West, Harrison F., Grafton, N. Y. Spring-board wagon	360,938	Apr. 12	777	202	39	150
West Haven Buckle Company. (See Hyde, James C., assignor.)						
West, Henry F., Gloucester City, N. J. Machine for doubling and twisting yarns	371,235	Oct. 11	710	182	41	148
West, Jacob S. (See West, Ella E. and J. S.)						
West, James J. (See Wilkins, Morris D., assignor.)						
West, John W., Braintree, Mass. Tension device for spools	358,313	Feb. 22	2267	598	38	867
West, John W., Braintree, Mass. Thread-delivering attachment for sewing-machines	371,998	Oct. 25	1809	468	41	382
West, Marshall O., et al. (See Stevens, John C., assignor.)						
West, Stillman A., St. Louis, Mo. Staying button-holes	373,507	Nov. 22	1874	497	41	846
West, William B., New Hartford, Mo. Wire-stretcher	364,152	May 31	2967	771	39	1063
West, William F., assignor, by mesne assignments, to himself and J. W. Brown, West Warren, Mass. Lease-forming device for warping-machines	370,435	Sept. 27	1621	432	40	1362
Westbrook, Abraham D., Trenton, N. J. Belting	356,022	Jan. 11	1034	272	38	209
Westbrook, Charles S., Spragueville, N. Y. Device for paying rebates on railways	363,031	May 17	1375	{ 363 364 }	{ 39 }	743
Westbrook, Frank A., Port Jervis, N. Y. Fire-escape	375,031	Dec. 20	1258	328	41	1306
Westbrook, Frank A., and W. S. Cook, Port Jervis, N. Y. Car-coupling	362,408	May 3	467	129	39	566
Westbrook, Frank A., Port Jervis, and W. S. Cook, Middletown, N. Y. Car-coupling	369,975	Sept. 13	949	251	40	1221
Westbrook, Frank A., Port Jervis, and W. S. Cook, Middletown, N. Y. Car-coupling	371,289	Oct. 11	786	201	41	162
Westcott, Charles H., Seneca Falls, N. Y. Ruler	370,668	Sept. 27	1974	523	40	1427
Westcott, Fred, Buffalo, N. Y. Lightning-rod	362,801	May 10	1048	285	39	675
Westcott, John H., Oneida, N. Y. Lathe-chuck	357,437	Feb. 8	994	261	38	615
Westcott, John M. (See Klinger, Albert, assignor.)						
Wester, John J. (See Bailey and Wester.)						
Westerbeck, Frederick, St. Louis, Mo. Can-soldering machine	358,516	Mar. 1	136	34, 35	38	929
Westerlund, Aaron F., Stockholm, Sweden, assignor, by mesne assignments, to Lamson Store Service Company, New York, N. Y. Track for use in transport work	358,517	Mar. 1	138	35	38	929
Western Electric Company. (See Barrett, John A., assignor.)						
Western Electric Company. (See Copeland, Herschel P., assignor.)						
Western Electric Company. (See Goodridge, William M., assignor.)						
Western Electric Company. (See Mehren, Jacob F., assignor.)						
Western Electric Company. (See Patterson, William R., assignor.)						
Western Electric Company. (See Scribner, Charles E., assignor.)						
Western Electric Company. (See Seely, John A., assignor.)						
Western Electric Company. (See Warner, Ernest P., assignor.)						
Western Electric Company. (See Widdicombe, Robert H., assignor.)						
Western Electric Manufacturing Company. (See Wiley, George L., assignor.)						
Western Union Telegraph Company. (See Scott, George B., assignor.)						
Western Union Telegraph Company. (See Smith, Gerritt, assignor.)						
Western Wheel Scraper Company. (See Snoddy, James T., assignor.)						
Westervelt, Benjamin J., assignor to Buda Foundry and Manufacturing Company, Buda, Ill. Car-wheel	368,262	Aug. 16	1351	356	40	723
Westervelt, Benjamin J., assignor to Buda Foundry and Manufacturing Company, Buda, Ill. Car-wheel	375,466	Dec. 27	1848	483	41	1430
Westfall, Daniel C., Glencoe, Nebr. Clothes-drier	368,036	Aug. 9	1014	273	40	652
Westfall, John, Lawrence, Kans. Stock-car	364,876	June 14	973	255	39	1277

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Westhoff, Emil, Cuero, Tex. Combined cultivator and corn-planter	368,799	Aug. 23	2104	{ 557 558 }	40	877
Westinghouse Electric Company. (See Fisher, John J., assignor.)						
Westinghouse Electric Company. (See Lange, Philip, assignor.)						
Westinghouse Electric Company. (See Lange and Shallenberger, assignors.)						
Westinghouse Electric Company. (See Reinmann, Charles F., assignor.)						
Westinghouse Electric Company. (See Schmid, Albert, assignor.)						
Westinghouse, George, Jr. (See Byllesby, Henry M., assignor.)						
Westinghouse, George, Jr. (See Byllesby and Lange, assignors.)						
Westinghouse, George, Jr. (See Byllesby and Shallenberger, assignors.)						
Westinghouse, George, Jr. (See Lange, Philip, assignor.)						
Westinghouse, George, Jr. (See Lange and Shallenberger, assignors.)						
Westinghouse, George, Jr. (See Pope, Byllesby, and Lange, assignors.)						
Westinghouse, George, Jr. (See Schmid, Albert, assignor.)						
Westinghouse, George, Jr. (See Shallenberger, Oliver B., assignor.)						
Westinghouse, George, Jr. (See Stanley, William, Jr., assignor.)						
Westinghouse, George, Jr. (See Wales, Arthur, assignor.)						
Westinghouse, George, Jr., Pittsburg, Pa. Electrical interlocking mechanism for switches and signals	357,109	Feb. 1	516	{ 136 137 138 139 140 }	38	517
Westinghouse, George, Jr., Pittsburg, Pa. Electric railway-signaling	357,296	Feb. 8	807	210	38	580
Westinghouse, George, Jr., Pittsburg, Pa. Binding-post	358,518	Mar. 1	140	36	38	930
Westinghouse, George, Jr., Pittsburg, Pa. Electro-pneumatic interlocking apparatus	358,519	Mar. 1	141	{ 36 37 38 }	38	930
Westinghouse, George, Jr., Pittsburg, Pa. Electric fluid-pressure engine	358,520	Mar. 1	156	38	38	932
Westinghouse, George, Jr., Pittsburg, Pa. Electrically-actuated fluid-pressure motor	358,521	Mar. 1	160	38	38	932
Westinghouse, George, Jr., Pittsburg, Pa. Electrically-actuated fluid-pressure motor and circuits therefor	358,713	Mar. 1	437	107	38	985
Westinghouse, George, Jr., Pittsburg, Pa. Fluid-pressure motor	359,303	Mar. 15	1259	{ 326 327 328 }	38	1150
Westinghouse, George, Jr., Pittsburg, Pa. Fluid-pressure automatic brake mechanism	360,070	Mar. 29	2490	633	38	1398
Westinghouse, George, Jr., Pittsburg, Pa. Railway electric signaling apparatus	360,638	Apr. 5	349	87, 88	39	67
Westinghouse, George, Jr., Pittsburg, Pa. Long-distance gas-distribution	365,454	June 28	1827	475	39	1457
Westinghouse, George, Jr., Pittsburg, Pa. Electric conductor	366,361	July 12	834	{ 223 224 }	40	165
Westinghouse, George, Jr., Pittsburg, Pa. Electrical converter	366,362	July 12	835	224	40	165
Westinghouse, George, Jr., Pittsburg, Pa. Electrical converter	366,544	July 12	1070	291	40	212
Westinghouse, George, Jr., Pittsburg, Pa. Gas-supply system	370,510	Sept. 27	1738	462	40	1383
Westinghouse, George, Jr., Pittsburg, Pa. System of electrical distribution	373,035	Nov. 8	1141	305	41	688
Westinghouse, George, Jr., Pittsburg, Pa. Automatic circuit-controlling apparatus for systems of electrical distribution	373,036	Nov. 8	1142	305	41	689
Westinghouse, George, Jr., Pittsburg, Pa. System of electrical distribution	373,037	Nov. 8	1144	306	41	689
Westinghouse, George, Jr., Pittsburg, Pa. Locomotive-driver brake	373,706	Nov. 22	2162	{ 578 579 }	41	903
Westinghouse, George, Jr., and A. Schmid, Pittsburg, Pa. Commutator for dynamo-electric machines	357,295	Feb. 8	805	209	38	579
Westinghouse, George, Jr., H. M. Byllesby, Pittsburg, O. B. Shallenberger, Rochester, and A. Schmid, Allegheny, Pa. Converter-box	373,038	Nov. 8	1145	306	41	690
Westinghouse, George, Jr., and H. M. Byllesby, Pittsburg, O. B. Shallenberger, Rochester, A. Schmid, Allegheny, and B. Hartley, Pittsburg, Pa.; said Byllesby, Shallenberger, Schmid, and Hartley assignors to said Westinghouse. Dynamo-electric machine	374,858	Dec. 13	979	{ 255 256 257 }	41	1246
Westinghouse, H. Herman, New York, N. Y., assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine	373,323	Nov. 15	1576	417	41	779
Westinghouse Machine Company. (See Westinghouse, H. Herman, assignor.)						
Westlake, Allen T., Springfield, Ill. Dial-figuring machine	366,987	July 19	1686	{ 453 454 }	40	335
Weston, Charles. (See Duffee and Weston.)						
Weston, Charles H., Medford, assignor of one-half to J. C. Nute, East Boston, Mass. Lock for lathe head-stocks	375,032	Dec. 20	1259	329	41	1306
Weston, Edward C., Philadelphia, Pa. Trousers-stretcher	355,577	Jan. 4	367	99	38	74
Weston, Edward D., Jackson, Mich. Flue-scraper	361,736	Apr. 26	1926	500	39	383
Weston Engine Company. (See Armstrong, Edwin J., assignor.)						
Weston, Irving A., and W. A. Smith, Syracuse, N. Y. Velocipede	357,110	Feb. 1	542	{ 140 141 }	38	521
Weston, Lon, Brockton, Mass. Lawn-shears	361,911	Apr. 26	2186	{ 566 567 }	39	430
Weston, Weldon F. (See Elkins, Charles M., assignor.)						
Weston & Wells Manufacturing Company. (See Wells, Joseph L., assignor.)						
Westphal, Henry, Chicago, Ill. Umbrella-stand	370,113	Sept. 20	1162	{ 307 308 }	40	1267
Wetherill, Cotesworth P., Woodville, Miss. Stuffing-box	358,714	Mar. 1	441	107	38	986
Wetmore, Jean A., Brooklyn, N. Y. Automatic feed for printing-presses	359,752	Mar. 22	1964	498	38	1295
Wetmore, Jerome W., Erie, Pa. Stairway-truck	368,263	Aug. 16	1353	357	40	724
Wettennark, A., et al. (See Haltom, Samuel, assignor.)						
Wetter, Joseph. (See Reinhart, James H., assignor.)						
Wetter, William J. (See Sauer, John G., assignor.)						
Wettstein, Herman, Harvard, Ill. Scoop or spoon measure	356,514	Jan. 25	1744	454	38	355
Wettstein, Herman, Harvard, Ill. Creamer or milk-pitcher	359,304	Mar. 15	1263	327	38	1150
Wettstein, Herman, Harvard, Ill. Scoop-ladle	359,653	Mar. 22	1813	461	38	1268
Wetzel, Charles, Newport, Ohio. Folding bed	364,560	June 7	507	136	39	1183
Wetzel, Charles M. (See Young and Wetzel.)						
Wetzel, George H., Lancaster, Ohio. Stopper-fastener	363,870	May 31	2560	664	39	986
Wetzell, Louis F., Atlanta, Ga. Automatic advertising device	355,578	Jan. 4	368	99	38	74
Wetzell, Louis F., Atlanta, Ga. Advertising show-stand	356,235	Jan. 18	1346	355	38	272
Wetzell, Louis F., Atlanta, Ga. Advertising show-stand	366,441	July 12	927	{ 252 253 }	40	184
Wetzig, Charles, Jr. (See Stambaugh, Charles W., assignor.)						
Weydell, Frank O., Chicago, Ill. Sash-fastener	369,418	Sept. 6	148	43	40	1060
Weygant, Charles H., Newburg, N. Y. Vehicle for delivering coal-oil, &c	361,474	Apr. 19	1547	{ 400 401 }	39	304
Whalen, William A., assignor of one-half to J. G. Klein, Baltimore, Md. Gas-stove	375,686	Dec. 27	2165	563	41	1488

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Whaley, Charles F., and J. M. Forest, St. Paul, Minn. Self-fastening seal.....	367,877	Aug. 9	787	212	40	609
Whaley, William M. (See Phillips and Whaley.)						
Wharton, Charles H. M., Manchester, county of Lancaster, England. Lacing-cord fastener	365,659	June 28	2140	559	39	1518
Wharton & Company, William, Jr. (See Angerer, Victor, assignor.)						
Wharton & Company, William, Jr. (See Samuel, Edward, assignor.)						
Wharton & Company, William, Jr. (See Samuel and Angerer, assignors.)						
Wharton & Company, William, Jr. (See Wharton, William, Jr., assignor.)						
Wharton & Company, William, Jr. (See Wharton and Samuel, assignors.)						
Wharton Railroad Switch Company. (See Wharton, William, Jr., assignor.)						
Wharton Railroad Switch Company. (See Wootten and Bell, assignors.)						
Wharton, William, Jr., assignor to Wharton Railroad Switch Company, Philadelphia, Pa. Railway-switch.....	357,438	Feb. 8	995	262	38	615
Wharton, William, Jr., assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Railway-switch or other casting.....	356,609	Jan. 25	1875	493	38	381
Wharton, William, Jr., assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Cross-tie.....	359,115	Mar. 8	1008	260	38	1096
Wharton, William, Jr., assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Railway-crossing.....	359,116	Mar. 8	1009	260	38	1096
Wharton, William, Jr., assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Railway.....	359,117	Mar. 8	1010	260	38	1097
Wharton, William, Jr., and E. Samuel, assignors to W. Wharton, Jr., and Company Incorporated, Philadelphia, Pa. Railway-rail.....	366,545	July 12	1071	291	40	213
Wharton, William H., assignor of one-half to L. E. Ladd, Philadelphia, Pa. Retainer for umbrella or parasol runners.....	366,801	July 19	1445	386	40	289
Wheat, George W., Ogdensburg, N. Y. Draft attachment for furnaces.....	365,557	June 28	1989	519	39	1491
Wheeden, James C., Baltimore, Md. Sail for vessels.....	361,102	Apr. 12	1018	257	39	195
Wheeden, James C., Baltimore, Md. Sail for vessels.....	371,396	Oct. 11	938	241	41	190
Wheeler, Fairfax A., and A. Schurch, assignors of one-fourth to L. Christin, San Francisco, Cal. Chromatic-printing apparatus.....	360,185	Mar. 29	2681	677	38	1433
Wheeler, Alden D., Hyde Park, Mass., assignor to American Automatic Fire Alarm Association, Portland, Me. Apparatus for testing electric circuits.....	359,338	Mar. 15	1307	339	38	1159
Wheeler, Andrew L., Rockford, Ill. Steam-boiler.....	359,699	Mar. 22	1881	478	38	1281
Wheeler, Benjamin P. (See Shaver, George F., assignor.)						
Wheeler, Elbridge, Boston, Mass. Furnace-mold.....	361,198	Apr. 12	1171	296	39	222
Wheeler, Elbridge, assignor to himself, W. B. Gay, and G. W. Gogin, trustees, Boston, Mass. Compound ingot.....	359,337	Mar. 15	1305	339	38	1159
Wheeler, Elbridge, assignor to himself, W. B. Gay, and G. W. Gogin, trustees, Boston, Mass. Box-pile.....	361,197	Apr. 12	1170	295	39	222
Wheeler, Elbridge, assignor to himself, W. B. Gay, and G. W. Gogin, trustees, Boston, Mass. Mold.....	361,798	Apr. 26	2019	525	39	399
Wheeler, Elbridge, assignor to himself, W. B. Gay, and G. W. Gogin, trustees, Boston, Mass. Constructing compound metallic bodies.....	361,799	Apr. 26	2020	525	39	399
Wheeler, Elbridge, assignor to himself, W. B. Gay, and G. W. Gogin, trustees, Boston, Mass. Mold or apparatus for casting compound ingots.....	363,032	May 17	1377	364	39	744
Wheeler, Elbridge, assignor to himself, W. B. Gay, and G. W. Gogin, trustees, Boston, Mass. Compound ingot-mold.....	363,926	May 31	2642	685	39	1000
Wheeler, Elbridge, assignor to W. B. Gay, G. W. Gogin, and himself, trustees, Boston, Mass. Composite ingot for producing seamless tubes.....	368,175	Aug. 9	1205	322	40	688
Wheeler, Elbridge, assignor to W. B. Gay, G. W. Gogin, and himself, trustees, Boston, Mass. Forming metal ingots.....	368,176	Aug. 9	1206	322	40	688
Wheeler, Elbridge, assignor to himself, W. B. Gay, and G. W. Gogin, trustees, Boston, Mass. Manufacture of structural ingots.....	370,436	Sept. 27	1622	432	40	1362
Wheeler, Frank L., assignor of one-half to E. M. Lewis, Southington, Conn. Oscillating engine.....	372,348	Nov. 1	95	27, 28	41	489
Wheeler, Frank P. (See Cady, Frank P., assignor.)						
Wheeler, Fred F., Ochevedan, Iowa. Neck-yoke.....	370,581	Sept. 27	1852	491	40	1403
Wheeler, Frederick M., Montclair, N. J., assignor to G. F. Blake Manufacturing Company, Boston, Mass. Pump-regulating device.....	360,071	Mar. 29	2494	633	38	1399
Wheeler, James M., Fish's Eddy, N. Y. Air-ship.....	361,475	Apr. 19	1548	401	39	304
Wheeler, John, East St. Louis, Ill. Automatic valve-controller.....	373,324	Nov. 15	1579	418	41	780
Wheeler, John C., Flushing, and M. Cokeley, Schenectady, assignors of one-half to H. M. Livor, Brooklyn, N. Y. Pulley-pattern-molding press. (Reissue).....	10,854	Aug. 2	639	171	40	572
Wheeler, John E. (See Dame, John M., assignor.)						
Wheeler, Madden & Clemson Manufacturing Company. (See Clemson and Millsbaugh, assignors.)						
Wheeler, Marshal, Boston, Mass. Reloading and resizing tool.....	358,238	Feb. 22	2165	571	38	847
Wheeler, Marshal, Boston, Mass. Incandescent electric lamp.....	374,224	Dec. 6	75	20	41	1062
Wheeler, Mary E., New York, N. Y., assignor to R. M. and T. S. Bassett, Birmingham, Conn. Dress-shield.....	375,239	Dec. 20	1543	405	41	1363
Wheeler, Maurice, Chicago, Ill. Gate for swing-bridges.....	370,669	Sept. 27	1975	523	40	1427
Wheeler, Meritt T., Troy, N. Y. Game apparatus.....	370,224	Sept. 20	1316	350	40	1297
Wheeler, Nels H., and N. M. Newhouse, Corvallis, Oreg. Device for swaging insertible saw-teeth.....	364,877	June 14	973	255	39	1277
Wheeler, Philip H., and H. Barbier, assignors to Columbus Watch Company, Columbus, Ohio. Stem winding and setting watch.....	361,658	Apr. 19	1814	470	39	355
Wheeler, Schuyler S. (See Curtis, Wheeler, and Crocker.)						
Wheeler, Schuyler S., assignor to C. & C. Electric Motor Company, New York, N. Y. Conductor-tip.....	368,987	Aug. 30	2377	632	40	939
Wheeler, Schuyler S., assignor to C. and C. Electric Motor Company, New York, N. Y. Regulation of electric motors.....	370,000	Sept. 13	985	260	40	1228
Wheeler, Schuyler S., and C. G. Curtis, New York, N. Y., assignors to C. & C. Electric Motor Company. Electric battery.....	358,314	Feb. 22	2267	598	38	867
Wheeler, Seth, Albany, N. Y. Wrapping or toilet paper roll.....	361,603	Apr. 19	1728	446	39	338
Wheeler, Seth, Albany, N. Y. Holder for rolls of toilet or wrapping paper.....	371,290	Oct. 11	788	202	41	162
Wheeler, Thomas J. (See Mosher, Silas H., assignor.)						
Wheeler, William H., Mohawk Village, Ohio. Halter.....	363,033	May 17	1379	364	39	744
Wheeler, William H., Erie, Pa. Globe relief-valve.....	372,503	Nov. 1	320	87	41	531
Wheeler, William H., Grand Valley, Pa. Connecting-rod for oil-pumps.....	375,465	Dec. 27	1847	483	41	1430
Wheeler & Wilson Manufacturing Company. (See Holden, Isaac, assignor.)						
Wheeler & Wilson Manufacturing Company. (See Morrison, Edgar K., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Neely, William A., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Ostrom, Freeland W., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Steward, Aurelius, assignor.)						
Wheelock, Arnold A., Washington, D. C. Hitching-post.....	366,052	July 5	417	113	40	79

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Wheelock, Charles B., Boston, Mass. Nursing-bottle.....	357,439	Feb. 8	996	262	38	615
Wheelock, Elisha R. (See Chase, Thomas B., assignor.)						
Whelan, David, assignor, by mesne assignments, to W. B. Plunkett, Adams, Mass. Stop mechanism for looms.....	368,177	Aug. 9	1207	323	40	688
Whelan, Frank. (See Vogel and Whelan.)						
Wheless, Wesley N., Augusta, Ga. Printing and stamping press.....	357,801	Feb. 15	1553	404	38	728
Wheless, Wesley N., Augusta, Ga. Pencil-sharpener.....	369,270	Aug. 30	2751	734	40	1013
Wherry, John R., assignor to Wherry Manufacturing Company, Little Rock, Ark. Detachable receptacle for fare-boxes.....	368,502	Aug. 16	1693	{ 450 451 }	{ 40 40 }	790
Wherry, John R., Little Rock, and W. B. Turman, Waldron, assignors to D. E. Jones, Little Rock, Ark. Fare-box for street-cars.....	359,482	Mar. 15	1528	391	38	1200
Wherry Manufacturing Company. (See Wherry, John R., assignor.)						
Whiley, Henry, Manchester, county of Lancaster, England. Street-sweeper.....	357,440	Feb. 8	997	263	38	615
Whinery, Samuel, Somerset, Ky. Guard for water-pitchers or other vessels.....	369,381	Sept. 6	102	31	40	1052
Whipple, Albert M., Swampscott, Mass. Sewing-machine.....	370,114	Sept. 20	1164	308	40	1267
Whipple, Charles S., Boston, Mass. Sash-fastener.....	362,131	May 3	108	33	39	494
Whipple, Effinger E., Eaton Rapids, Mich. Harrow.....	360,939	Apr. 12	778	202	39	150
Whipple, Henry D., assignor of two-thirds to L. A. Jeffreys and F. D. Clarke, Rochester, N. Y. Device for operating street-railway switches.....	362,802	May 10	1049	285	39	675
Whipple, Henry J. P., Middletown, Conn. Knob attachment.....	355,957	Jan. 11	954	249	38	193
Whipple, Orin P., Abilene, Kans. Lamp-stool.....	360,497	Apr. 5	147	36	39	28
Whisler, Charles F., Rochester, Pa. Nut-lock.....	373,544	Nov. 22	1933	512	41	857
Whiston, Charles S., Pittsburg, Pa. Rein-holder.....	357,946	Feb. 15	1744	455	38	764
Whitaker, Herschel, <i>et al.</i> (See Hutchinson, Edwin B., assignor.)						
Whitaker, John A. (See Case and Whitaker.)						
Whitaker, Joshua R. (See Gorrell, Charles L., assignor.)						
Whitaker, Welcome, Goshen, Ind. Road-cart.....	359,912	Mar. 22	2220	558	38	1341
Whitall, Tatum & Co. (See Tatum, Charles A., assignor.)						
Whitbeck, George V. H., Phelps, N. Y. Wheelbarrow grass-seed sower.....	373,162	Nov. 15	1334	355	41	734
Whitcher, Frank W., <i>et al.</i> (See Stetson, Charles T., assignor.)						
Whitcher, Frank W., Boston, Mass. Lasting-pinchers.....	372,246	Oct. 25	2189	562	41	451
Whitcher, Oscar W., <i>et al.</i> (See Stetson, Charles T., assignor.)						
Whitcomb, Fernando C., Worcester, Mass. Die-milling machine.....	361,851	Apr. 26	2102	545	39	414
Whitcomb, Jason N., Brockton, Mass. Leather-skiving machine.....	363,265	May 17	1686	442	39	805
Whitcomb, Josiah T., <i>et al.</i> (See Gavitt, George F., assignor.)						
Whitcomb, Olney M. (See Beckwith, Ira W., assignor.)						
Whitcomb, Wilson W., Batavia, N. Y. Railway-car heater.....	373,626	Nov. 22	2051	546	41	879
White, Addison H. (See Connett and White.)						
White, Albert B. (See Herron and White.)						
White, Alexander, Kerbyville, Oreg. Mower attachment.....	365,558	June 28	1990	519	39	1491
White, Andrew A., and C. R. King, Lampasas, Tex. Folding and self-supporting ironing-table.....	368,264	Aug. 16	1354	357	40	724
White, Asa W., Boston, Mass. Violin-bow.....	358,315	Feb. 22	2270	599	38	862
White, Benjamin P., East Lynne, Mo. Pitman.....	367,942	Aug. 9	885	240	40	628
White, Charles B., Boston, Mass. Lamp or gas heating attachment.....	359,415	Mar. 15	1433	366	38	1178
White, Corbin & Company. (See Richards, Francis H., assignor.)						
White, Daniel G. (See Blakesley and White.)						
White, David S., Huntley, Ill. Bell-cord coupling.....	363,266	May 17	1688	442	39	805
White, David S., Minneapolis, Minn. Hoisting-machine.....	367,567	Aug. 2	306	88, 89	40	510
White Dental Manufacturing Company, S. S. (See Abbott, Frank, assignor.)						
White Dental Manufacturing Company, S. S. (See Bonwill, William G. A., assignor.)						
White Dental Manufacturing Company, S. S. (See Browne, Arthur W., assignor.)						
White Dental Manufacturing Company, S. S. (See Harrington, Walter W., assignor.)						
White Dental Manufacturing Company, S. S. (See Knapp, James R., assignor.)						
White Dental Manufacturing Company, S. S. (See Long, Thomas A., assignor.)						
White Dental Manufacturing Company, S. S. (See Register, Henry C., assignor.)						
White Dental Manufacturing Company, S. S. (See Stuck, Levi, assignor.)						
White Dental Manufacturing Company, S. S. (See Weber, August, assignor.)						
White Dental Manufacturing Company, S. S. (See White, James W., assignor.)						
White Dental Manufacturing Company, S. S. (See Wood, John B., assignor.)						
White, Edward. (See Burt, Marcena, assignor.)						
White, Frank, Troy, N. Y. Pocket pencil-holder.....	369,898	Sept. 13	824	218	40	1200
White, Frank G., assignor of two-thirds to M. McInerney, South Chicago, Ill. Swinging-bridge fender.....	366,053	July 5	418	113	40	79
White, George, St. Louis, Mo. Overalls, &c.....	360,979	Apr. 12	839	215	39	161
White, George, assignor of one-half to E. H. Bucknam, San Francisco, Cal. Fog-horn.....	357,802	Feb. 15	1554	405	38	728
White, George L., Caton, N. Y. Windmill.....	367,687	Aug. 2	496	{ 136 137 }	{ 40 40 }	544
White, George S., Danbury, Conn. Door-check.....	363,927	May 31	2644	686	39	1000
White, George S., Danbury, Conn. Scarf or necktie holder.....	366,284	July 12	731	199	40	146
White, Henry A. (See Von Stein and White.)						
White, Henry T., Eddyville, Iowa. Truck for capstans.....	358,906	Mar. 8	735	182	38	1044
White, Hiram W., Yankton, Dak. Ter. Key for stringed instruments.....	358,764	Mar. 1	501	123	38	997
White, Hiram W., Yankton, Dak. Ter. Key for stringed instruments.....	360,186	Mar. 29	2683	678	38	1433
White, J. Atwood, and J. W. Moore, Philadelphia, Pa. Clutch.....	363,707	May 24	2332	605	39	937
White, James. (See Durkin, Michael T., assignor.)						
White, James, assignor to National Safe and Lock Company, Cleveland, Ohio. Finishing and ornamenting safes.....	374,567	Dec. 6	577	.....	41	1158
White, James A. and J. O., Winston, N. C. Road-cart.....	355,490	Jan. 4	256	68	38	52
White, James W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial-tooth holder.....	362,803	May 10	1050	286	39	676
White, John, and G. Thomas, Fulton, Tenn. Sash-fastener.....	356,182	Jan. 18	1270	335	38	258
White, John A. (See Cushman, Abe L., assignor.)						
White, John B., Buffalo, N. Y. Horseshoe.....	369,827	Sept. 13	707	190	40	1177
White, John F., Gallatin, assignor to C. W. Taylor, Chattanooga, Tenn. Bow-spring for eyeglasses.....	365,496	June 28	1885	491	39	1469
White, John H. (See May, Charles W., assignor.)						
White, John H., Washington, D. C., assignor to National Typographic Company. Machine for making stereotype-matrices.....	374,438	Dec. 6	378	{ 99 100 }	{ 41 41 }	1118
White, Joseph A. (See Taylor and White.)						
White, Joseph F., Brattleborough, Vt. Lamp-burner support.....	364,789	June 14	847	222	40	1253
White, Joseph O. (See White, James A. and J. O.)						
White, Joseph W. (See Diller and White.)						
White, Le Roy S., Waterbury, Conn. Garment-supporter.....	364,387	June 7	245	69	39	1135

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White, Lewis B., New York, N. Y., assignor to L. Abbett, Jersey City, N. J. Device for generating hydrocarbon vapor and burning or storing it.	371,114	Oct. 4	543	138	41	108
White, Lewis B., New York, N. Y., assignor to L. Abbett, Jersey City, N. J. Hydrocarbon-furnace.	373,955	Nov. 29	2513	676	41	977
White, Louis H., St. Augustine, Fla. Stock-car	356,910	Feb. 1	234	65	38	464
White, Maurice W., assignor of one-half to G. W. Ross, Somerville, Mass. Bridge for stringed instruments	361,659	Apr. 19	1815	470	39	355
White, Norman S., Karns City, Pa. Combined railway-tie and rail-fastening	366,546	July 12	1072	291	40	213
White, Otis C., Worcester, Mass. Compound swiveling and clamping joint mechanism	369,143	Aug. 30	2588	688	40	981
White, Peter, St. Louis, Mo. Water-closet	357,803	Feb. 15	1555	405	38	729
White, Peter, St. Louis, Mo. Trap for basins and sinks	357,804	Feb. 15	1556	405	38	729
White, Peter, St. Louis, Mo. Water-closet	359,913	Mar. 22	2221	{ 558 559 }	{ 38 38 }	1341
White, Peter, St. Louis, Mo. Water-closet or analogous structure	363,566	May 24	2124	550	39	898
White, Peter, and A. Jacobs, St. Louis, Mo. Combined spittoon and water-closet	363,494	May 24	2019	526	39	878
White, Phil., Rome, N. Y. Shifting-rail for vehicles	362,132	May 3	109	34	39	494
White, Reynolds T., Boston, Mass. Elevated railway	359,753	Mar. 22	1966	{ 498 499 }	{ 38 38 }	1295
White, Reynolds T., Boston, Mass. Truck and running-gear of railway-cars	362,563	May 10	692	193	39	610
White, Reynolds T., assignor to J. L. Randall, Boston, Mass. Divided axle for railway-cars	359,827	Mar. 22	2078	526	38	1316
White, Samuel K., assignor, by mesne assignments, to Lampert & Co., Chicago, Ill. Planing-machine	370,912	Oct. 4	258	65	41	51
White, Samuel K., and S. T. Lockwood, Chicago, Ill.; said Lockwood assignor to said White. Cloth-folding machine	370,835	Oct. 4	113	31	41	24
White Sewing Machine Company. (See Porter, D'Arcy, assignor.)						
White, Sidney B. (See Vesey, Theodore C., assignor.)						
White, Sidney B. (See Vesey and White, assignors.)						
White, Thomas, Peekskill, N. Y. Horse-detacher	362,341	May 3	376	104	39	547
White, Thomas, assignor to Canfield Rubber Company, New York, N. Y. Dress-shield	371,236	Oct. 11	712	183	41	149
White, Thomas F., assignor of one-half to E. J. Barber, Salem, Kans. Washing-machine	360,498	Apr. 5	148	37	39	28
White, Thomas H. (See Holden, Brooke, and White.) (Reissue.)						
White, Thomas J. (See Hawkins, Albert B., assignor.)						
White, Thomas R., Boston, Mass. Apparatus for heating cars	375,521	Dec. 27	1916	502	41	1443
White, Truman C., Fresno, Cal. Packing-plate for raisins	371,013	Oct. 4	411	103	41	82
White, William, Mount Vernon, N. Y. Centrifugal amalgamator	368,363	Aug. 16	1484	395	40	750
White, William, Mount Vernon, assignor to R. Kelley and J. B. Brewster, New York, N. Y. Centrifugal amalgamator	355,958	Jan. 11	955	250	38	193
White, William A., Staatsburg, N. Y. Furnace for hot-houses	358,635	Mar. 1	320	77	38	963
White, William A., Staatsburg, N. Y. Hot-water-pipe arrangement for heating purposes	358,636	Mar. 1	321	77	38	963
White, William A., Staatsburg, N. Y. Water-heater for cars	362,342	May 3	377	104	39	547
White, William A., Staatsburg, N. Y. Furnace for hot-houses, &c	371,397	Oct. 11	939	242	41	190
White, William B., Quincy, Mass. Manufacture of cases for eyeglasses	363,267	May 17	1689	442	39	806
White, William C. (See Vesey and White.)						
White, William E., and E. H. Taylor, Lynn, Mass.; said Taylor assignor to said White. Knife-blade holder	371,014	Oct. 4	412	103	41	82
White, William G., London, England. Polychromatic-printing block	375,433	Dec. 27	1802	.....	41	1421
White, William H., Boston, Mass., and J. W. Chamberlain, assignors to J. W. Chamberlain & Co., Bangor, Me. Steam-generator	375,033	Dec. 20	1260	329	41	1306
White, William L. (See Basinger, James M., assignor.)						
White, William M., et al. (See Crook, Charles, assignor.)						
White, William P., Louisville, Ky. Animal-trap	359,237	Mar. 8	1167	{ 303 304 }	{ 38 38 }	1125
White, William P., Louisville, Ky. Animal-trap	362,343	May 3	378	{ 104 105 }	{ 39 39 }	548
White, William P., Louisville, Ky. Animal-trap	366,802	July 19	1446	387	40	289
White, William R., Neoga, Ill. Sliding gate	371,237	Oct. 11	712	183	41	149
White, William R., Neoga, Ill. Sliding gate	371,238	Oct. 11	713	183	41	149
White, William W. (See Delory, Michael, assignor.)						
White, Zachary T., Hartsville, Tenn. Corn-planter	371,867	Oct. 18	1618	417	41	337
Whitefield, George W., Evanston, Ill. Electrical dental engine	374,225	Dec. 6	76	20	41	1062
Whitehead, George E., assignor to Rhode Island Tool Company, Providence, R. I. Turn-buckle blank	375,687	Dec. 27	2165	563	41	1488
Whitehead, George E., assignor to Rhode Island Tool Company, Providence, R. I. Micrometer-gage	375,688	Dec. 27	2166	563	41	1488
Whitehead, William C. (See Latshaw, John and J. H., assignors.)						
Whitehead, William C., and A. L. Teetor; said Teetor assignor to J. H. Latshaw, Indianapolis, Ind. Sand-molding machine	364,388	June 7	246	69	39	1135
Whitehill, Robert, Milwaukee, Wis. Dust-collector	360,129	Mar. 29	2597	658	38	1417
Whitehill, Robert, Milwaukee, Wis. Dust-collector	360,130	Mar. 29	2599	{ 658 659 }	{ 38 38 }	1417
Whitehouse, Cornelius, Bridgtown, Cannock, England. Auger-bit	364,153	May 31	2968	771	39	1064
Whitehurst, Robert W., assignor of one-half to M. L. Wrenn, Norfolk, Va. Dry-goods displayer	358,418	Feb. 22	2408	640	38	894
Whitehurst, Robert W., assignor of one-half to M. L. Wrenn, Norfolk, Va. Plow	362,912	May 10	1200	321	39	704
Whitehurst, Robert W., assignor of one-half to M. L. Wrenn, Norfolk, Va. Plow	365,358	June 21	1677	438	39	1418
Whiteland, Charles H. (See Whiteland, William, assignor.)						
Whiteland, William, assignor of one-half to C. H. Whiteland, Boston, Mass. Mold	360,639	Apr. 5	352	88	39	67
Whiteley, Fassler & Kelly. (See Whiteley, Bayley, and Dyer, assignors.) (Reissue.)						
Whiteley, William N. (See Howell, Benjamin, assignor.)						
Whiteley, William N., Springfield, Ohio. Harvester	358,239	Feb. 22	2167	571	38	847
Whiteley, William N., Springfield, Ohio. Deck-cleaner for grain-binders	358,586	Mar. 1	260	60	38	951
Whiteley, William N., Springfield, Ohio. Butt-detainer for grain-binders	359,118	Mar. 8	1011	261	38	1097
Whiteley, William N., Springfield, Ohio. Harvesting-machine	365,324	June 21	1628	{ 424 425 }	{ 39 39 }	1407
Whiteley, William N., Springfield, Ohio. Head and butt board for grain-binders	367,688	Aug. 2	497	137	40	545
Whiteley, William N., Springfield, Ohio. Grain-binder	368,436	Aug. 16	1590	{ 424 425 }	{ 40 40 }	771
Whiteley, William N., Springfield, Ohio. Harvester-truck	368,437	Aug. 16	1593	425	40	771
Whiteley, William N., Springfield, Ohio. Grain-adjusting device for harvesters	372,505	Nov. 1	322	88	41	531
Whiteley, William N., Springfield, Ohio. Knotting device for grain-binders	372,506	Nov. 1	324	89	41	532
Whiteley, William N., and W. Bayley, Springfield, Ohio; said Bailey assignor to said Whiteley. Harvester	355,959	Jan. 11	956	250	38	193
Whiteley, William N., and W. Bayley, Springfield, Ohio; said Bayley assignor to said Whiteley. Clearer for grain-binders	370,297	Sept. 20	1412	380	40	1316

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Whiteley, William N., and W. Bayley, Springfield, Ohio, assignors to said Whiteley. Grain-harvester	370,298	Sept. 20	1413	380	40	1316
Whiteley, William N., W. Bayley, and S. Dyer, assignors to Whiteley, Fassler & Kelly, Springfield, Ohio. Knotting device for grain-binders. (Reissue)	10,797	Jan. 11	1137	301	38	228
Whiteley, William N., W. Bayley, and S. Dyer, Springfield, Ohio; said Bayley and Dyer assignors to said Whiteley. Knotter for grain-binders	363,268	May 17	1690	443	39	806
Whiteside, George R., Buck Horn, Ill. Washing-machine	358,093	Feb. 22	1958	517	38	809
Whitfield, James L., Dorchester, Ill. Straw-stacker	368,037	Aug. 9	1015	{ 273 } 274	{ 40 }	653
Whiting, Almon P., Paterson, N. J. Automatic signal-bell	373,115	Nov. 15	1259	334	41	722
Whiting, James H., Flint, Mich. Wagon running-gear	357,882	Feb. 15	1661	432	38	748
Whiting, Lewis D. (See Beecher and Whiting.)						
Whiting, Stiles H., assignor of one-half to L. K. Slayton, Bridgeport, Conn. Hose-supporter	364,740	June 14	748	198	39	1237
Whitley, Andrew L. (See Chapman and Whitley.)						
Whitley, Joseph, Leeds, county of York, England. Mold for the production of metallic castings	359,483	Mar. 15	1530	391	38	1200
Whitley, Joseph, Leeds, county of York, England. Mold for casting rivets	359,484	Mar. 15	1531	{ 391 } 392	{ 38 }	1200
Whitley, Nathan, F. W. Thomson, and H. Hoyle, Halifax, county of York, England. Appliance for securing card-clothing to flats of carding-engines	371,398	Oct. 11	940	242	41	191
Whitlock, Sturges, Birmingham, Conn. Reversing mechanism	362,344	May 3	379	105	39	548
Whitman Agricultural Company. (See Butterfield, Ephraim, assignor.)						
Whitman, Charles E., St. Louis, Mo. Baling-press	363,269	May 17	1691	443	39	806
Whitman, Charles E., St. Louis, Mo. Baling-press	363,928	May 31	2644	686	39	1001
Whitman, Charles E., St. Louis, Mo. Baling-press	369,306	Aug. 30	2507	{ 748 } 749	{ 40 }	1024
Whitman, Charles E., St. Louis, Mo. Baling-press	369,573	Sept. 6	358	{ 99 } 100	{ 40 }	1102
Whitman, Emma J., Oakland, Cal. Sash-fastener	372,349	Nov. 1	97	28	41	489
Whitman, Gilbert P. (See Willey, Eben C., assignor.)						
Whitman, Gustavus F. (See Whitman, Henry L. and G. F.)						
Whitman, Gustavus F., St. Louis, Mo. Dumping-car	368,038	Aug. 9	1017	{ 274 } 275	{ 40 }	653
Whitman, Henry L., St. Louis, Mo. Baling-press	363,708	May 24	2333	605	39	937
Whitman, Henry L. and G. F., St. Louis, Mo. Broadcast seed-sower	373,870	Nov. 29	2393	643	41	954
Whitman, Orrin M., Boston, Mass. Door-securer	371,650	Oct. 18	1288	334	41	269
Whitmore, Andrew E., Springfield, Mass. Micrometer-gage	363,709	May 24	2334	605	39	937
Whitmore, Emma, assignor to A. Jones' Sons, Philadelphia, Pa. Constructing rosettes	363,929	May 31	2646	686	39	1001
Whitmore, George E., New Haven, Conn. Tricycle	356,388	Jan. 18	1560	410	38	313
Whitmore, Oscar, Oakland, Cal. Device for cutting vehicle-axles	368,178	Aug. 9	1209	323	40	689
Whitner Automatic Safety Brake Company. (See Whitner, Hiram K., assignor.)						
Whitner, Hiram K., New York, N. Y., assignor to Whitner Automatic Safety Brake Company, New Haven, Conn. Mechanical movement	363,103	May 17	1472	390	39	762
Whitney, Alexander E. J., Leadville, Colo. Feed-water heater	358,177	Feb. 22	2089	550	38	832
Whitney, Arthur E., Winchester, Mass. Hide-working machine	367,257	July 26	2076	561	40	416
Whitney, Aubrey M., Providence, R. I. Rotary tobacco-cutter	362,345	May 3	381	105	39	548
Whitney, Baxter D., Winchendon, Mass. Planing-machine	371,399	Oct. 11	941	242	41	191
Whitney, Benjamin F. (See Williams and Whitney.)						
Whitney, Daniel D., Providence, R. I., assignor to W. E. Sparrow, Mattapoisette, Mass. Toy	362,238	May 3	245	70	39	521
Whitney, Daniel D., assignor of one-half to S. Weart, Jersey City, N. J. Fifth-wheel	370,718	Sept. 27	2056	545	40	1442
Whitney, Edwin H., assignor to American Ship Windlass Company, Providence, R. I. Reversing-gear for engines	366,905	July 19	1581	423	40	315
Whitney, Edwin R., Manchester, N. H., assignor to H. and W. P. Fairbanks, St. Johnsbury, Vt. Electro-therapeutic strength-testing machine	362,133	May 3	110	34	39	495
Whitney, Edwin R., Manchester, N. H., assignor to Standard Electric Company of Vermont, St. Johnsbury, Vt. Coin-bucket	371,868	Oct. 18	1619	418	41	337
Whitney, Edwin R., Manchester, N. H., assignor to Standard Electric Company of Vermont, St. Johnsbury, Vt. Coin-operated electrical weighing-scale	371,869	Oct. 18	1620	418	41	337
Whitney Elastic Motion Sewing Machine Company of New York. (See Whitney, James H., assignor.)						
Whitney, Galen B. (See Whitney, Marcus L. and G. B.)						
Whitney, James A., Brooklyn, N. Y. Making curved pipe	365,110	June 21	1322	{ 350 } 351	{ 39 }	1350
Whitney, James A., Brooklyn, N. Y. Apparatus for making curved metal pipe	368,314	Aug. 16	1419	375	40	737
Whitney, James H., assignor, by mesne assignments, to D. C. Folk, Brooklyn, N. Y. Elastic treadle for sewing-machines	372,281	Oct. 25	2239	{ 574 } 575	{ 41 }	460
Whitney, James H., Brooklyn, N. Y., assignor, by mesne assignments, to Whitney Elastic Motion Sewing Machine Company of New York. Automatic tension for sewing-machines	373,163	Nov. 15	1336	355	41	735
Whitney, James H., Brooklyn, N. Y., assignor, by mesne assignments, to Whitney Elastic Motion Sewing Machine Company of New York. Feed-adjusting device for sewing-machines	373,164	Nov. 15	1337	355	41	735
Whitney, James M., Deadwood, Dak. Ter. Rotary steam-engine	357,648	Feb. 15	1324	{ 348 } 349	{ 38 }	686
Whitney, John R., Radnor, Pa. Chill for casting car-wheels. (Reissue)	10,804	Feb. 1	631	163	38	538
Whitney, John R., Radnor, Pa. Chill	358,094	Feb. 22	1959	518	38	809
Whitney, Jonah D., Syracuse, N. Y. Buckboard	360,940	Apr. 12	780	203	39	151
Whitney, Marcus L., Minneapolis, Minn., and G. B. Whitney, Port Jervis, N. Y. Combined envelope and tag	366,054	July 5	419	114	40	79
Whitney, Ruel W., and F. Pultz, Cleveland, Ohio. Transmitter	374,439	Dec. 6	383	100	41	1119
Whiton, Lucius E., assignor to D. E. Whiton Machine Company, New London, Conn. Lathe-chuck	366,749	July 19	1380	369	40	278
Whiton, Lucius E., assignor to D. E. Whiton Machine Company, West Stafford, Conn. Lathe-chuck	369,758	Sept. 13	604	164	40	1158
Whiton Machine Company, D. E. (See Whiton, Lucius E., assignor.)						
Whittell, Alexander P., San Francisco, Cal. Photographic apparatus	360,499	Apr. 5	149	37	39	29
Whittemore, David. (See Lingley, John W., assignor.)						
Whittemore, Edwin S. (See McMahan and Whittemore.)						
Whittemore, Frank L., Eden Mills, Vt. Mop-head	365,287	June 21	1577	410	39	1397
Whittemore, Robert D., Chippewa Falls, Wis. Halter	367,943	Aug. 9	886	241	40	628
Whitten, James O. (See Serson, James, assignor.)						
Whittier, Charles R., Yonkers, N. Y. Hydraulic engine	373,259	Nov. 15	1479	391	41	761
Whittier, Thomas P., East Saginaw, Mich. Hydrometer-alarm	360,980	Apr. 12	840	215	39	161
Whittingham, Ernest, Detroit, Mich. Combined door knob and lock	365,891	July 5	187	48	40	37

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Whittington, William C. (See Stovall and Whittington.)						
Whittlesey, Samuel F., New Haven, Conn. Inner sole for boots or shoes.....	355,428	Jan. 4	176	47	38	36
Whitton, Andrew D., Philadelphia, Pa. Cable-gripping mechanism.....	374,767	Dec. 13	851	224	41	1222
Whitworth, John S., Berkley, Va. Car-brake lever.....	358,907	Mar. 8	736	182	38	1044
Whomes, Henry R., Winona, Minn. Cylinder-cock.....	362,804	May 10	1051	286	39	766
Wiard, Harry, and W. R. Bullock, Syracuse, N. Y. Side-hill sulky-plow.....	372,884	Nov. 8	911	246	41	647
Wiard, Harry, J. L. Judd, and W. R. Bullock, assignors to Syracuse Chilled Plow Company, Syracuse, N. Y. Road-scraper.....	372,885	Nov. 8	913	247	41	647
Wichmann, Heinrich F. A., Hamburg, Germany. Accordion.....	368,696	Aug. 23	1966	521	40	851
Wicker, Albert G., Cincinnati, Ohio. Rocking furniture.....	365,288	June 21	1578	410	39	1397
Wickers, Barney C. (See Wickers, Lewis F. and B. C.)						
Wickers, Lewis F. and B. C., Lebanon, Ind. Fence-post.....	360,187	Mar. 29	2684	678	38	1433
Wickersham, Townsend, New Garden, Pa. Apparatus for sprinkling vines and plants.....	364,790	June 14	848	222	39	1253
Wickersham, William, Worcester, Mass. Nail-cutting machine.....	358,522	Mar. 1	162	39	38	933
Wickert, Edward, Hortonville, Wis. Ax.....	375,588	Dec. 27	2019	525	41	1462
Wickert, May. (See Decker, Alonzo, assignor.)						
Wickey, Andrew, Quincy, Ill. Baling-press.....	365,211	June 21	1457	384	39	1377
Wickey, Andrew, Quincy, Ill. Baling-press.....	366,547	July 12	1075	292	40	214
Wickey, Andrew, Quincy, Ill. Baling-press.....	370,170	Sept. 20	1247	332	40	1284
Wickey, Andrew, Quincy, Ill. Bale-weighing attachment for baling-presses.....	370,171	Sept. 20	1248	332	40	1285
Wickham, Almeron W., and J. M. Roach, Burnside, Conn. Leveling-instrument.....	373,627	Nov. 22	2052	546	41	879
Wickham, Horace J., assignor to Plimpton Manufacturing Company, Hartford, Conn., and Morgan Envelope Company, Springfield, Mass. Envelope-cutting mechanism.....	371,400	Oct. 11	942	243	41	191
Wicklin, Elijah S., Dubuque, Iowa. Warming and ventilating houses.....	369,828	Sept. 13	707	{ 190 191 }	{ 40 }	1177
Wicks, George W., Brooklyn, N. Y., assignor to A. E. McKechnie, Lynn, Mass. Apparatus for casting plumbers' traps.....	359,754	Mar. 22	1968	499	38	1296
Wicks, George W., Brooklyn, N. Y., assignor to A. E. McKechnie, Lynn, Mass. Machine for forming plumbers' traps.....	359,755	Mar. 22	1972	500	38	1296
Wicks, George W., Brooklyn, N. Y., assignor to A. E. McKechnie, Lynn, Mass. Manufacturing plumbers' traps.....	359,756	Mar. 22	1975	500	38	1297
Wicks, George W., Brooklyn, N. Y., assignor to A. E. McKechnie, Lynn, Mass. Making plumbers' traps.....	359,757	Mar. 22	1976	{ 500 501 }	{ 38 }	1297
Wicks, George W., Brooklyn, N. Y., assignor to A. E. McKechnie, Lynn, Mass. Apparatus for forming plumbers' traps.....	359,758	Mar. 22	1979	501	38	1297
Wicks, George W., Brooklyn, N. Y., assignor to A. E. McKechnie, Lynn, Mass. Fountain-trap.....	359,759	Mar. 22	1981	501	38	1297
Wicks, Pierson J., Green Point, N. Y. Railway-signal.....	362,409	May 3	469	{ 129 130 }	{ 39 }	566
Wickser, John G. (See Becker, Henry, assignor.)						
Wickwire, Chester F., Cortland, N. Y. Machine for winding bobbins.....	364,694	June 14	679	181	39	1224
Widdicombe, Robert H., assignor to Western Electric Company, Chicago, Ill. Terminal for electric cables.....	367,734	Aug. 2	581	157	40	560
Widmer, Charles, New York, N. Y. Take-up mechanism for looms.....	355,670	Jan. 4	508	135	38	100
Widmer, Charles, assignor to Loom Manufacturing Company, New York, N. Y. Positive shuttle-motion for looms.....	364,741	June 14	749	199	39	1237
Widmer, Charles, assignor to Loom Manufacturing Company, New York, N. Y. Loom-shuttle.....	365,111	June 21	1324	351	39	1350
Widmer, Jacob, New Hartford, Conn. Loom.....	365,420	June 28	1775	461	39	1447
Wiederer, Peter. (See Hufeland, Phillip, assignor.)						
Wiederer, Peter, New York, N. Y. Mirror.....	356,515	Jan. 25	1745	455	38	356
Wiederer, Peter, New York, N. Y. Hand-mirror.....	357,352	Feb. 8	876	230	38	593
Wiederer, Peter, Stapleton, N. Y. Mirror.....	361,386	Apr. 19	1433	370	39	282
Wiederer, Peter, Stapleton, N. Y. Folding mirror.....	363,102	May 17	1471	389	39	762
Wiedringhaus, Alexander, <i>et al.</i> (See Hirschling, Henry, assignor.)						
Wiegand, Andrew J., Washington, D. C. Adjustable hanger for frames.....	373,707	Nov. 22	2164	579	41	903
Wiegmann, Charles. (See Stecher, Max, assignor.)						
Wieland, G. Charles. (See Kramer, George, assignor.)						
Wieman, Ernest. (See Burckhardt and Wieman.)						
Wier, James M. (See Patrick, Marcus C., assignor.)						
Wier, Stephen M., New Haven, Conn. Vehicle-spring attachment.....	364,457	June 7	359	99	39	1156
Wiese, Gustav A., San Francisco, Cal. Electric-arc lamp.....	361,663	Apr. 19	1821	472	39	356
Wiese, Gustav A., assignor to A. Weske, San Francisco, Cal. Electric-arc lamp.....	373,761	Nov. 22	2232	{ 597 598 }	{ 41 }	916
Wiese, Hugo E. M. (See Schaefer, Philip L. J., assignor.)						
Wiesebrock, Frederick W., assignor of two-thirds to J. B. and I. L. Smith, New York, N. Y. Process of and apparatus for cooling and drying malt, grain, and other substances.....	374,102	Nov. 29	2726	732	41	1020
Wiesner, Julius, assignor to himself and Z. Stoeppler, Manchester, N. H. Pocket-knife.....	357,353	Feb. 8	878	231	38	593
Wiester, William H., San Francisco, Cal. Lid for oil, gas, or vapor stoves.....	366,988	July 19	1688	454	40	335
Wiestling, George B., Mont Alto, Pa. Furnace for refining iron.....	359,700	Mar. 22	1882	478	38	1281
Wigand, Ferdinand, Brooklyn, N. Y. Pedal-zither.....	370,582	Sept. 27	1853	{ 491 492 }	{ 40 }	1404
Wigg, George L., M. Steele, and W. J. Wigg, Runcorn, county of Chester, England. Obtaining ferric oxide from the waste liquors of copper-works.....	370,511	Sept. 27	1740	.....	40	1383
Wigg, Walter J. (See Wigg, Steele, and Wigg.)						
Wiggins, David, assignor to W. Lee, London, England. Velocipede.....	358,178	Feb. 22	2090	{ 551 552 }	{ 38 }	832
Wigginton, Valentine E., Washington Court-House, Ohio. Kitchen-cabinet.....	365,289	June 21	1579	410	39	1397
Wight, George R., <i>et al.</i> (See Campbell, William, assignor.)						
Wight, Peter B. (See Francy, John, assignor.)						
Wight, Peter B., Hyde Park, Ill., assignor of one-half to J. Francy, Toronto, Ohio. Wall-coping.....	370,437	Sept. 27	1624	433	40	1363
Wightman, Andrew, Peekskill, N. Y. Metallic roofing.....	364,072	May 31	2849	739	39	1041
Wightman, Andrew, Peekskill, N. Y. Sheet-metal roof.....	365,290	June 21	1580	411	39	1398
Wightman, Ira C. (See Carter and Wightman.)						
Wightman, Merle J. (See Lemp and Wightman.)						
Wightman, Merle J., and H. Lemp, Hartford, Conn. Lightning-arrester.....	363,567	May 24	2125	551	39	898
Wightman, Merle J., and H. Lemp, Hartford, Conn. Incandescent-lamp fixture.....	363,568	May 24	2126	551	39	898
Wightman, Merle J., and H. Lemp, Hartford, Conn. Incandescent-lamp socket and cut-out.....	365,159	June 21	1393	367	39	1363
Wightman, Merle J., and H. Lemp, Hartford, Conn., assignors to Schuyler Electric Manufacturing Company, of Connecticut. Dash-pot for arc lamps.....	367,081	July 26	1819	490	40	368
Wightman, Merle J., and H. Lemp, Hartford, Conn., assignors to Schuyler Electric Manufacturing Company, of Connecticut. Switch and automatic cut-out.....	367,082	July 26	1820	490	40	369

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Wightman, Merle J., and H. Lemp, Hartford, Conn., assignors to Schuyler Electric Manufacturing Company, of Connecticut. Electric-arc lamp	367,568	Aug. 2	307	89, 90	40	510
Wightman, Merle J., and O. Urban, Hartford, Conn. Armature for dynamo-electric machines	367,080	July 26	1818	490	40	368
Wike, John, Providence, R. I. Screw-tap	371,015	Oct. 4	413	103	41	82
Wikidal, La Fayette, Salem, Oreg. Egg-beater	367,569	Aug. 2	312	90	40	511
Wikman, Johan O., Eureka, assignor of one-half to C. F. Rodin, San Francisco, Cal. Stay-sail hank	374,330	Dec. 6	228	61	41	1089
Wilber, Elijah S., Chicago, Ill. Heater	360,500	Apr. 5	150	37	39	29
Wilber, James L., Farmington, Mich. Washing-machine	369,759	Sept. 13	608	164	40	1158
Wilbur, Alfred, Allegheny City, Pa. Pipe-coupling	369,574	Sept. 6	359	100	40	1103
Wilbur, Alfred, Allegheny City, Pa. Pipe-coupling. (Reissue)	10,877	Oct. 25	2243	575	41	462
Wilbur, Alfred, Allegheny, Pa. Pipe-laying apparatus	375,404	Dec. 27	1762	462	41	1413
Wilbur, George E. (See Walker and Wilbur.)						
Wilbur, Hiatt, Almont, Mich. Two-wheeled vehicle	358,908	Mar. 8	736	183	38	1044
Wilbur, Krum & Wilbur. (See Bristol, David N., assignor.)						
Wilbur, Miles, Palmyra, Wis. Churn	366,055	July 5	419	114	40	79
Wilbur, William I., Toledo, Ohio. Chair	367,485	Aug. 2	184	51	40	486
Willeke, Julius C., Aurora, Ill. Feed-roller expansion-gear for wood-planing machines	373,956	Nov. 29	2515	{ 676 677 }	{ 41 41 }	977
Wilcock, John, assignor of one-half to S. H. Gidley, Philadelphia, Pa. Top drawing-roller for spinning-machines, &c	363,035	May 17	1381	365	39	744
Wilcox, Alonzo I. (See Franklin, Benjamin, assignor.)						
Wilcox, Alva W., Newark, Ohio, and M. A. Merrill, Henderson, N. Y. Fire-escape	359,526	Mar. 15	1603	{ 410 411 }	{ 38 38 }	1214
Wilcox, Bige. (See Wilcox, Monroe and B.)						
Wilcox, Charles D., Indianapolis, Ind. Boiler-cleaner	363,443	May 24	1934	508	39	860
Wilcox, Dana E. (See Tiede and Wilcox, assignors.)						
Wilcox, Darius, Ansonia, assignor to Wilcox & Howe, Birmingham, Conn. Fifth-wheel	358,316	Feb. 22	2271	599	38	868
Wilcox, Frank, Reese, Mich. Harrow and cultivator tooth fastening	368,039	Aug. 9	1018	275	40	653
Wilcox, Henry, Montague, Mich. Fire-kindler	363,871	May 31	2561	665	39	986
Wilcox, Henry K. W., assignor to M. J. Faucher, Brooklyn, N. Y. Green-corn knife	359,950	Mar. 22	2278	572	38	1352
Wild, Hermann, Brooklyn, N. Y. Baker's oven	366,363	July 12	836	{ 224 225 }	{ 40 40 }	165
Wilcox & Howe. (See Wilcox, Darius, assignor.)						
Wilcox, Jairus. (See Tiede and Wilcox.)						
Wilcox, Monroe and B., Cassadaga, N. Y. Wash-bench	363,104	May 17	1476	390	39	762
Wilcox, Perry E. (See Becker, Alphonzo, assignor.)						
Wilcox, Ransford, and S. L. Phillips, Milwaukee, Wis. Machine for reducing wheat and analogous grain	359,586	Mar. 15	1717	437	38	1233
Wilcox, Ransford, and S. L. Phillips, Milwaukee, Wis. Machine for reducing wheat and analogous grain	359,587	Mar. 15	1719	437	38	1233
Wilcox, Samuel W., Mendon, Mass. Tuning-peg for violins	360,981	Apr. 12	841	215	39	161
Wilcox Silver Plate Company. (See Budde, Robert H., assignor.)						
Wilcox, William M. (See Cosby, James M., assignor.)						
Wilcoxson, Emmet, White Church, Kans. Double-acting pump	358,909	Mar. 8	737	183	38	1044
Wild, Charles. (See Wild, William H., assignor.)						
Wild, Thomas, Leeds, county of York, England. Machinery for depositing and distributing pulverized metal, &c., on paper	371,651	Oct. 18	1289	334	41	270
Wild, William H., Valatie, N. Y. Wheel-rake	363,034	May 17	1380	{ 364 365 }	{ 39 39 }	744
Wild, William H., Valatie, N. Y. Wheel-rake	367,486	Aug. 2	185	51, 52	40	486
Wild, William H., assignor of one-half to C. Wild, Valatie, N. Y. Wheel-rake	355,364	Jan. 4	97	26, 27	38	21
Wilde, Daniel, Washington, Iowa. Steam ditching and tile-laying machine	359,701	Mar. 22	1885	{ 478 479 }	{ 38 38 }	1282
Wilde, Daniel, Washington, Iowa. Frictional gearing	369,760	Sept. 13	609	164	40	1158
Wilde, John T., Newark, N. J. Shutter-worker	358,998	Mar. 8	859	218	38	1067
Wilder, Charles H., Natick, Mass. Composition for lining vessels	372,733	Nov. 8	665	-----	41	605
Wilder, Charles H., Natick, assignor to L. A. Wilder, trustee, Boston, Mass. Carbon battery	372,734	Nov. 8	665	{ 182 183 }	{ 41 41 }	605
Wilder, Charles H., Natick, Mass., assignor to Hub Carbon Company, Kennebunk, Me. Carbon electrode for galvanic batteries	375,034	Dec. 20	1262	-----	41	1307
Wilder, Charles O., Indianapolis, Ind. Apparatus for bending and trimming spring-boxes	361,340	Apr. 19	1366	351	39	270
Wilder, Charles O., Indianapolis, Ind. Machine for upsetting collars on rods	365,212	June 21	1459	384	39	1377
Wilder, Charles O., Indianapolis, Ind. Indicator attachment for chucks	369,489	Sept. 6	238	67	40	1079
Wilder, Chauncey G., et al. (See Pollard, Isaac G., assignor.)						
Wilder, Francis M., Binghamton, N. Y. Apparatus for heating cars	365,715	June 28	2220	{ 578 579 }	{ 39 39 }	1531
Wilder, Francis M., Binghamton, N. Y., assignor, by mesne assignments, to Safety Car Heating and Lighting Company, of New Jersey. Method of and apparatus for heating railway-cars	373,039	Nov. 8	1147	{ 306 307 }	{ 41 41 }	690
Wilder, Luke A., trustee. (See Wilder, Charles H., assignor.)						
Wilder, Ned R. (See Bolton, Henry F., assignor.)						
Wilde, Edward A., Long Island City, N. Y. Electric bell	358,910	Mar. 8	739	183	38	1045
Wileman, Arthur F., Ealing, county of Middlesex, England. Sewing-machine	370,225	Sept. 20	1317	351	40	1297
Wiles, Frederick J., Grassy Point, N. Y. Axle-box	367,171	July 26	1941	524	40	390
Wiley, Addison, Newark, N. J. Thermotic regulator for incubators	375,035	Dec. 20	1263	330	41	1307
Wiley, Charles J., Brooklyn, N. Y. Printing-telegraph	373,508	Nov. 22	1875	{ 498 499 }	{ 41 41 }	847
Wiley, George L., Brooklyn, N. Y., assignor to Standard Underground Cable Company, Pittsburg, Pa. Cable-hanger	355,491	Jan. 4	257	68	38	52
Wiley, George L., Brooklyn, N. Y., assignor to Standard Underground Cable Company, Pittsburg, Pa. Cable-hanger	355,492	Jan. 4	258	68	38	52
Wiley, George L., Brooklyn, N. Y., assignor to Standard Underground Cable Company, Pittsburg, Pa. Cable-hanger	355,493	Jan. 4	259	68	38	52
Wiley, George L., Elizabeth, N. J., assignor to Western Electric Manufacturing Company, Chicago, Ill. Telephone-exchange system	358,317	Feb. 22	2272	599	38	868
Wiley, Johnston C., assignor of one-half to G. C. Hutchison, Sidney, Ohio. Gate	367,258	July 26	2077	561	40	417
Wiley, Jonas T., Liscomb, Iowa. End-gate for wagons	360,072	Mar. 29	2495	634	38	1399
Wilgus, Daniel C., Los Angeles, Cal. Combined oil-can, wrench, and tool for bicycles	356,566	Jan. 25	1820	476	38	370
Wilhelm, Jacob, assignor of two-thirds to A. H. Grove, New Freedom, and J. M. Habliston, Jr., Shrewsbury, Pa. Car-coupling	368,865	Aug. 23	2196	584	40	896
Wilhelm, Rudolph, New York, N. Y. Photograph-case	372,052	Oct. 25	1899	490	41	397
Wilhite, Eugene M. (See Manning, James A., assignor.)						
Wilhöft, Franz, New York, N. Y. Manufacturing non-blooming vulcanized soft rubber	375,405	Dec. 27	1764	-----	41	1413

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Wilken, George, New York, N. Y. Toy pistol.....	375,589	Dec. 27	2020	525	41	1462
Wilkes, Moses, Trenton, N. J. Automatic slide-valve cut-off mechanism.....	358,318	Feb. 22	2274	600	38	868
Wilkes, Washington, Sylacauga, Ala. Wheel-harrow.....	359,339	Mar. 15	1309	340	38	1159
Wilkin, William M., Erie, Pa. Reciprocating-saw mill. (Reissue).....	10,882	Nov. 15	1738	{ 458 459 }	{ 41 }	809
Wilkins, Alexander G., assignor of one-half to A. L. Dunbar, Meadville, Pa. Button-setting instrument.....	367,016	July 19	1717	462	40	341
Wilkins Company, S. B. (See Harbaugh, Howard E., assignor.)						
Wilkins, George A., Philadelphia, Pa. Magneto-electric telephone-call.....	361,737	Apr. 26	1927	500	39	383
Wilkins, Herve D., Rochester, N. Y. Swell for pipe-organs.....	361,562	Apr. 19	1657	429	39	326
Wilkins, John W. (See Hawkins and Wilkins.)						
Wilkins Locomotive Car Coupler Company. (See Mitchell, Albert E., assignor.)						
Wilkins, Morris D., assignor to himself and J. J. West, Chicago, Ill. Printing.....	369,575	Sept. 6	360	100	40	1103
Wilkins, Sylvester B., Rockford, Ill. Mechanical movement.....	362,564	May 10	694	194	39	611
Wilkins, Turney M., <i>et al.</i> (See Spalding, Orlando D., assignor.)						
Wilkins, William, Bridgeport, Conn. Hose-nozzle.....	370,836	Oct. 4	118	31	41	25
Wilkinson, Benjamin F., <i>et al.</i> (See Swan, Charles R., assignor.)						
Wilkinson, Charles A., East Somerville, Mass., assignor to Windsor Locks Wax Paper Company, Windsor Locks, Conn. Waxing paper.....	365,213	June 21	1460	385	39	1377
Wilkinson, Charles A., East Somerville, and W. S. McDonald, Boston, Mass., assignors to Windsor Locks Wax Paper Company, Windsor Locks, Conn. Waxing paper.....	374,025	Nov. 29	2610	700	41	997
Wilkinson, Charles E., Matteawan, N. Y. Unwinding attachment for spools.....	371,291	Oct. 11	789	202	41	163
Wilkinson, Edward, Paterson, N. J., assignor of one-half to E. P. Wentworth, Cape Elizabeth, Me. Adjustable picture-frame hanger.....	360,982	Apr. 12	842	216	39	161
Wilkinson, George, Wellsborough, Pa. Truss.....	365,660	June 28	2141	559	39	1518
Wilkinson, Job D., Battle Creek, Mich. Dividers or calipers.....	364,561	June 7	508	137	39	1184
Wilkinson, John R. (See Wood, Albert A., assignor.)						
Wilkinson, John R., Atlanta, Ga. Weighing-scale.....	360,073	Mar. 29	2497	634	38	1399
Wilkinson, Joseph H., Boston, Mass. Oiling apparatus for vertical engines.....	360,747	Apr. 5	497	128	39	93
Wilkinson, Joseph H., Boston, Mass. Heat-diffuser for stoves or ranges.....	367,878	Aug. 9	788	213	40	609
Wilkinson, Thomas B., and J. L. Cutler, Arcadia, Kans. Oiler.....	360,748	Apr. 5	499	128	39	94
Wilkinson, Walter S., <i>et al.</i> (See Swan, Charles R., assignor.)						
Wilkinson, William N., Longsight, Manchester, county of Lancaster, assignor of one-half to J. Stott, London, England. Belt-pulley.....	364,878	June 14	974	256	39	1277
Will, Albert, <i>et al.</i> (See Root, Miles C., assignor.)						
Willard, Daniel, Turtle Lake, Wis. Automatic track-gage.....	365,113	June 21	1327	352	39	1351
Willard, Rodney S., St. Albans, Vt. Garment-supporter.....	356,860	Feb. 1	165	44	38	453
Willard, Rodney S., St. Albans, Vt. Garment-supporter.....	356,861	Feb. 1	166	45	38	453
Willard, Rodney S., St. Albans, Vt. Garment-supporter.....	357,137	Feb. 1	585	150	38	529
Willard, William T., Hampshire, Ill. Throttle-valve.....	363,872	May 31	2562	665	39	987
Willcox, Charles H., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine needle.....	357,805	Feb. 15	1557	405	38	729
Willcox, Charles H., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Hook-needle for sewing-machines.....	357,806	Feb. 15	1558	406	38	729
Willcox, Charles H., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Trimming device for sewing-machines.....	365,716	June 28	2221	579	39	1532
Willcox, Charles H., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Trimming attachment for sewing-machines.....	374,440	Dec. 6	384	101	41	1119
Willcox, Charles H., New York, N. Y., and S. Borton, Philadelphia, Pa., assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Pulley.....	373,790	Nov. 22	2275	610	41	923
Willcox, Charles H., New York, N. Y., and J. Range, Nottingham, England, assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Machine for clipping lace, &c.....	361,563	Apr. 19	1659	{ 429 430 431 }	{ 39 }	326
Willcox, Fenn, Newark, N. J. Sash-fastening device.....	359,119	Mar. 8	1012	261	38	1097
Willcox & Gibbs Sewing Machine Company. (See Willcox, Charles H., assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox and Borton, assignors.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox and Range, assignors.)						
Wille, Frederick, Clermont, Iowa. Wagon-bolster stake.....	363,710	May 24	2336	606	39	938
Willer, Henry E., Milwaukee, Wis. Receptacle for sliding window-blinds.....	374,384	Dec. 6	303	80	41	1104
Willer, Henry E., Milwaukee, Wis. Lift for sliding blinds.....	374,385	Dec. 6	304	80	41	1104
Willet, Warren B., Plymouth, N. C. Set-works for saw-mills.....	374,511	Dec. 6	486	126	41	1139
Willet, Ora S., assignor of one-half to J. Cunningham, Belleville, Kans. Windmill.....	360,188	Mar. 29	2685	678	38	1433
Willet, S. J., <i>et al.</i> (See Newman, Nelson, assignor.)						
Willet, Samuel J., <i>et al.</i> (See Newman, Nelson, assignor.)						
Willey, Eben C., assignor of one-half to G. P. Whitman, Manchester, N. H. Gage for measuring diameters of cylinders.....	355,365	Jan. 4	99	27	38	21
Willey, Eben C., assignor of one-half to G. P. Whitman, Manchester, N. H. Saddle for the top rolls of spinning-machines, &c.....	356,183	Jan. 18	1272	336	38	258
Willey, Eben C., assignor of one-half to G. P. Whitman, Manchester, N. H. Saddle for drawing-rolls of spinning-machines, &c.....	359,654	Mar. 22	1815	461	38	1269
Willford, Joseph L., Minneapolis, Minn. Lubricator.....	360,749	Apr. 5	500	129	39	94
Willford, Joseph L., Minneapolis, Minn. Roller-mill.....	367,570	Aug. 2	313	90, 91	40	511
Willhite, Jerry. (See Doyle, James W., assignor.)						
Williams, Alfred, Philadelphia, Pa. Tool for filling teeth.....	368,988	Aug. 30	2378	632	40	939
Williams, Alfred, assignor to J. C. Harrington, Providence, R. I. Bracelet.....	363,309	May 17	1746	457	39	816
Williams, Anthony T., Trenton, N. J. Ice-creeper.....	375,110	Dec. 20	1376	358	41	1328
Williams, Benozette, Chicago, Ill. Making and cooling joints for electrical conduits.....	358,095	Feb. 22	1961	518	38	809
Williams, Charles, Blenheim, Marlborough, New Zealand. Shoe-sole plate.....	374,512	Dec. 6	487	126	41	1140
Williams, Charles A., assignor to J. K. Teetzel, Pittsburg, Pa. Door-check.....	371,999	Oct. 25	1810	468	41	382
Williams, Charles E. (See Moore, George T., assignor.)						
Williams, Charles E., Westfield, Mass. Whip-button.....	361,034	Apr. 12	923	234	39	176
Williams, Charles E., Westfield, Mass. Disk whip-head.....	361,035	Apr. 12	925	234	39	176
Williams, Charles E., Westfield, Mass. Whip-cap.....	373,165	Nov. 15	1339	355	41	735
Williams, Charles E., Westfield, Mass. Whip-button.....	373,166	Nov. 15	1340	356	41	735
Williams, Charles E., Westfield, Mass. Whip-button.....	373,167	Nov. 15	1341	356	41	735
Williams, Charles E., Fall River, Mass., and J. F. Carr, Tiverton, R. I. Incubator.....	364,073	May 31	2849	739	39	1042
Williams, Charles H., Cleveland, Ohio. Turn-buckle and blank.....	373,871	Nov. 29	2395	644	41	955
Williams, Charles I. (See Williams, Irvin A. and C. I.)						
Williams, Charles T. (See Watkins, William, assignor.)						
Williams, Chester, Boston, Mass. Slide-loop for suspenders.....	375,240	Dec. 20	1544	405	41	1363
Williams, Daniel J., Hampton, Ark. Harrow and cultivator.....	358,096	Feb. 22	1961	518	38	809
Williams, Daniel J., Hampton, Ark. Cultivator.....	373,708	Nov. 22	2166	579	41	904
Williams, Dell D., Muskegon, and J. D. Wilson, Montague, Mich. Band-saw mill.....	362,410	May 3	471	{ 130 131 }	{ 39 }	567
Williams, Edward, Jr., and D. E. Keller, Centralia, Pa. Miner's outfit.....	366,907	July 19	1583	423	40	316

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Williams, Edward A., Brooklyn, N. Y. Artificial ear-drum	360,074	Mar. 29	2498	634	38	1399
Williams, Edward A., Brooklyn, N. Y. Syringe	374,026	Nov. 29	2611	700	41	997
Williams, Edward H., <i>et al.</i> (See Vauclain, Samuel M., assignor.)						
Williams, Edward W., San Francisco, Cal. Grate	370,512	Sept. 27	1741	462	40	1384
Williams, Ernest D., Boston, Mass. Corkscrew	373,872	Nov. 29	2398	644	41	955
Williams, Eugene J., Springfield, Ohio. Vapor-stove	372,586	Nov. 1	446	120	41	554
Williams, Frank H. (See Grimes and Williams.)						
Williams, Frank R., Rochester, N. Y. Fruit-paring machine	370,914	Oct. 4	266	65, 66	41	52
Williams, Frederic S., De Roche, Ark. Implement for buckling bale-ties	363,569	May 24	2128	551	39	899
Williams, Frederick and T. H., St. Louis, Mo. Abdominal truss	368,040	Aug. 9	1019	275	40	654
Williams, George F., New Philadelphia, Ohio. Making butter	358,097	Feb. 22	1962		38	809
Williams, George M., assignor to W. L. Nassau Manufacturing Company, Newark, Del. } Lawn-mower	359,550	Mar. 15	1640	{ 419 420 }	{ 38	1220
Williams, George R., Ridgewood, N. Y. Compound for artificial stone	362,594	May 10	743		39	618
Williams, George W., Economy, Ind. Fence-machine	360,189	Mar. 29	2686	679	38	1434
Williams, George W., Maspeth, N. Y. Machine for printing oil-cloth and other fabrics	367,351	July 26	2216	595	40	442
Williams, Harry M., assignor of one-half to D. M. Sill, Bloomington, Ill. Car-axle box	371,156	Oct. 4	601	154	41	119
Williams, Henry, Doylestown, Ohio. Draft-equalizer	355,494	Jan. 4	260	69	38	53
Williams, Henry A., Taunton, Mass. Rolls for rolling rods, &c.	367,879	Aug. 9	790	213	40	610
Williams, Henry B., assignor of two-thirds to L. A. Jeffreys, Rochester, N. Y. Propelling apparatus for vessels	367,125	July 26	1883	510	40	379
Williams, Henry G. (See Imlay and Williams.)						
Williams, Henry J., assignor to Harris Button Hole Attachment Company, New York, } N. Y. Button-hole attachment for sewing-machines	374,918	Dec. 13	1081	{ 282 283 }	{ 41	1266
Williams, Henry S., Boston, Mass. Fire-grate	361,036	Apr. 12	926	{ 234 235 }	{ 39	176
Williams, Hopkin, <i>et al.</i> (See Price, John M., assignor.)						
Williams, Irvin A. and C. I., Utica, N. Y. Locomotive head-light	365,112	June 21	1325	{ 351 352 }	{ 39	1350
Williams, Isaac C., Auburn, W. Va. Cupboard-catch	362,805	May 10	1052	286	39	676
Williams, James, and A. Judson, Newark, N. J., assignors to A. E. and A. J. Ridley, New York, N. Y. Safety pocket attachment	362,913	May 10	1201	321	39	704
Williams, James A., Boston, Mass. Brush	360,190	Mar. 29	2687	679	38	1434
Williams, James B., Glastonbury, Conn. Seeding-machine	375,036	Dec. 20	1264	330	41	1307
Williams, James B., Glastonbury, and A. C. Tanner, Hartford, Conn. Bridle-bit	369,490	Sept. 6	239	68	40	1079
Williams, James B., San Francisco, assignor to J. L. De Fremery, Oakland, Cal. Compo- sition of matter for insulating material. (Reissue)	10,846	June 21	1680		39	1418
Williams, James C., assignor to Jarecki Manufacturing Company, (limited,) Erie, Pa. } Screw-cutting tool	372,504	Nov. 1	321	88	41	531
Williams, James H., Utica, N. Y. Making heddle-wires	366,056	July 5	421	114	40	80
Williams, James H., assignor of one-half to R. A. Jones, Campbellsville, Ky. Lap ring or link	361,103	Apr. 12	1019	257	39	195
Williams, James N., Mobile, Ala. Post-marker and stamp-canceller	367,487	Aug. 2	187	52, 53	40	487
Williams, James W. (See Baird, William C., assignor.)						
Williams, Jerome S., and B. F. Whitney, assignors to said B. F. Whitney, E. H. and W. Davis, Garnett, Kans. Double lister corn-drill and planter	363,711	May 24	2337	606	39	938
Williams, John, Quebec, Quebec, Canada. Ventilator	364,074	May 31	2850	739	39	1042
Williams, John, assignor to Diamond Electric Belt Company, Hartford, Conn. Electric belt	372,647	Nov. 1	537	147	41	573
Williams, John A., Orange, and E. H. Thomas, Hornby, N. Y. Fence	366,057	July 5	422	114	40	80
Williams, John B., Reading, Pa. Railway-tie	370,837	Oct. 4	119	32	41	25
Williams, John H. (See Morse, Frederick H., assignor.)						
Williams, John H., Council Grove, Kans. Hay-press	361,912	Apr. 26	2188	567	39	431
Williams, John L., Shenandoah, Pa. Coal or rock drill	357,748	Feb. 15	1481	388	38	714
Williams, John M., Hazleton, Pa. Combined tablet, paper-weight, and blotter	360,750	Apr. 5	502	129	39	94
Williams, John R., Newark, N. J. Cigar-bunching machine	369,419	Sept. 6	149	43, 44	40	1060
Williams, Lewis R., Long Branch, N. J. Ladder	358,523	Mar. 1	164	39	38	933
Williams, M. A. (See Fleak, Robert F., assignor.)						
Williams, Ogden A., North Lansing, Mich. Farm-gate	373,116	Nov. 15	1260	334	41	722
Williams, Orlando E. (See Brewster and Williams.)						
Williams, Percy G., and A. W. Roovers, Brooklyn, N. Y. Coin-operated induction-coil...	372,441	Nov. 1	232	65	41	514
Williams, R., Jr., <i>et al.</i> (See Cocker, Peter, assignor.)						
Williams, Richard C. (See Clarke and Williams.)						
Williams, Richard S., New York, N. Y. Dental foil	375,241	Dec. 20	1545	405	41	1363
Williams, Robert. (See Bowker and Williams.)						
Williams, Robert E., Dallas, Tex., assignor of one-half to T. G. Hammer, New Orleans, La. } Reflector for lamps	365,215	June 21	1462	385	39	1377
Williams, Robert E., Dallas, Tex., and T. G. Hammer, New Orleans, La. Electric belt....	366,058	July 5	422	115	40	80
Williams, Robert S., <i>et al.</i> (See Kehr, Cyrus, assignor.)						
Williams, Roswell H. (See Carson, Williams, and Turner.)						
Williams, Thomas, Jr., 45 Myddelton Square, county of Middlesex, England. Mincing and } filling machine	366,706	July 19	1318	{ 353 354 }	{ 40	267
Williams, Thomas H. (See Williams, Frederick and T. H.)						
Williams, White & Co. (See Ainsworth, Henry A., assignor.)						
Williams, White & Co. (See Grimes and Williams, assignors.)						
Williams, White & Co. (See Kirby, James J., assignor.)						
Williams, William, Brooklyn, N. Y. Automatic alarm for drip-pans	370,838	Oct. 4	121	32	41	25
Williams, William, assignor of one-half to J. C. Mendenhall, Indianapolis, Ind. Sweat- pad fastener	372,587	Nov. 1	447	120	41	555
Williams, William E. (See Warner, Louis P., assignor.)						
Williams, William H., West Concord, N. H. Attachment for ox-yokes	366,906	July 19	1582	423	40	316
Williams, William J. (See Safely and Williams.)						
Williams, William J., Camden, N. J., assignor to Keystone Chemical Company, Philadel- phia, Pa. Anti-incrustation compound	370,583	Sept. 27	1855		40	1404
Williams, William S., East Hartford, assignor of one-half to H. S. Lord, Hartford, Conn. } Machine for grinding mowing-machine knives	371,870	Oct. 18	1622	{ 418 419 }	{ 41	337
Williams & Wright. (See Wright, Walter B., assignor.)						
Williamson, Annie M., St. Louis, Mo. Corset	371,401	Oct. 11	944	243	41	191
Williamson, Catherine A., St. Louis, Mo. Seat for bicycles	364,075	May 31	2852	740	39	1042
Williamson, Catherine A., St. Louis, Mo. Seat	371,402	Oct. 11	945	{ 243 244 }	{ 41	191
Williamson, Cornelius T., Newark, N. J. Wire hook	372,099	Oct. 25	1974	507	41	410
Williamson, David, New York, N. Y. Current-collecting device for dynamo-electric ma- chines	355,738	Jan. 11	615	{ 160 161 }	{ 38	130

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Williamson, David C., Bay City, Mich. Adjustable holder for cuffs.....	362,134	May 3	111	34	39	495
Williamson, Elwood M., Lodge, Ill. Automatic grain-scales.....	367,880	Aug. 9	791	{ 213 214 }	{ 40 }	610
Williamson, George W., <i>et al.</i> (See Williamson, William C., assignor.)						
Williamson, Harry D., <i>et al.</i> (See Ketchum, William G., assignor.)						
Williamson, John A., Jr., assignor of one-half to L. B. Chapman, Rupee, Tex. Car-coupling.....	360,546	Apr. 5	225	56, 57	39	44
Williamson, John D., <i>et al.</i> (See Williamson, William C., assignor.)						
Williamson, John J., Boston, Mass. Manufacture of electrical conductors.....	369,144	Aug. 30	2590	688	40	981
Williamson, Pitt E., Washington, Ga. Cotton gin, scale, and press.....	359,914	Mar. 22	2223	559	38	1342
Williamson, Samuel S. (See Hubbard and Williamson.)						
Williamson, Seth M., Jr., assignor of one-half to C. E. Searcy, McMinnville, Tenn. Automatic gate.....	374,226	Dec. 6	77	20	41	1062
Williamson, William C., Philadelphia, Pa. Machinery for steering ships.....	358,419	Feb. 22	2409	{ 640 641 }	{ 38 }	894
Williamson, William C., assignor to G. W., J. D., and W. C. Williamson, Philadelphia, Pa. Steam steering-engine.....	371,016	Oct. 4	414	104	41	83
Willimantic Linen Company. (See Palmer, Maro V., assignor.)						
Willing, John W., Nanticoke, Md. Boat-detaching mechanism.....	373,325	Nov. 15	1580	418	41	780
Willingham Lumber Company. (See Moore, William A., assignor.)						
Willis, Carver N., Grantville, N. C. Blacking-box.....	374,282	Dec. 6	148	39	41	1076
Willis, Edward C., assignor to B. Gregory and A. J. O'Brien, Denver, Colo. Clothes-washer.....	357,441	Feb. 8	998	264	38	616
Willis, Edward C., assignor to Gregory & O'Brien, Denver, Colo. Bottle.....	358,319	Feb. 22	2276	601	38	868
Willis, Henry C., <i>et al.</i> (See Goddard, William L., assignor.)						
Willis, Henry M. (See Simonson, John H., assignor.)						
Willis, J. C., <i>et al.</i> (See Leslie, J. William, assignor.)						
Willis, James, Rosendale, Bournemouth, county of Hants, England. Umbrella-frame.....	356,516	Jan. 25	1746	455	38	356
Willis, James B. (See Harkins and Willis.)						
Willis, John M., New York, N. Y. Documental file.....	369,899	Sept. 13	825	219	40	1200
Willis, Joshua C., <i>et al.</i> (See Leslie, J. William, assignor.)						
Willis, William H., and J. H. Cowen, New Bedford, Mass. Harness-buckle.....	363,036	May 17	1383	365	39	745
Willison, Ralph A., Hartwell, Ohio. Attachment for cooking-vessels.....	357,111	Feb. 1	544	141	38	522
Willits, Ward W., and A. M. Duburn, assignors to Adams & Westlake Manufacturing Company of Michigan, Chicago, Ill. Canopy for railway-car lamps.....	364,154	May 31	2970	772	39	1064
Willits, Warren J., assignor to Sheffield Velocipede Car Company, Three Rivers, Mich. Tire for car-wheels.....	356,811	Feb. 1	95	26	38	441
Willmarth, John T., Pawtucket, R. I. Thread-severing stop for spooling-machines.....	375,467	Dec. 27	1849	{ 483 484 }	{ 41 }	1430
Willms, Charles, Baltimore, Md. Tool-handle.....	370,913	Oct. 4	264	65	41	52
Willms, William W., Palmyra, Va. Husk-cutting attachment for corn-shellers.....	363,712	May 24	2339	607	39	938
Willsea, Theodore, Rochester, N. Y. Ditching-machine.....	358,179	Feb. 22	2094	553	38	833
Willson, James, Tomah, Wis. Reversible sulky-plow.....	358,180	Feb. 22	2095	553	38	833
Willy, John, Chicago, Ill. Newspaper-holder.....	366,803	July 19	1446	387	40	290
Wilmarth & Co., W. H. (See Grover, Stillman R., assignor.)						
Wilmarth & Co., W. H. (See Schilling, Augustin, assignor.)						
Wilmarth, Fred. H., assignor of one-half to F. A. Miller, Peoria, Ill. Electro-magnetic cut-out.....	355,739	Jan. 11	617	162	38	131
Wilmington, William, Toledo, Ohio. Casting car-wheels.....	358,765	Mar. 1	502	123	38	997
Wilmington, William, Toledo, Ohio. Casting car-wheels.....	363,444	May 24	1935	508	39	861
Wilmington, William, Toledo, Ohio. Casting car-wheels. (Reissue).....	10,850	July 12	1229	327	40	242
Willmoth, Corydon H., Terre Haute, Ind. Ratchet-drill stock.....	365,214	June 21	1461	385	39	1377
Wilms, Peter H., Holland, Mich. Harrow-tooth holder.....	370,915	Oct. 4	269	66	41	53
Wilson, Alexander, Sheffield, county of York, England. Manufacture of compound armor-plates.....	362,806	May 10	1053	-----	39	676
Wilson, Benjamin F., Pittsburg, Pa. Hoisting-bucket.....	363,105	May 17	1477	391	39	763
Wilson, Benjamin J., Atlanta, Ga. Brick-machine.....	359,655	Mar. 22	1816	{ 461 462 }	{ 38 }	1269
Wilson Car Warming and Ventilating Company. (See Wilson, Hiram G., assignor.)						
Wilson, Charles, Rockport, Me. Nautical parallel-ruler.....	375,590	Dec. 27	2021	525	41	1462
Wilson, Charles H., assignor of one-half to J. Owen, Paducah, Ky. Locomotive.....	359,947	Mar. 22	2275	571	38	1351
Wilson, Charles J. (See Knudsen, Cornelius, assignor.)						
Wilson, Charles T. (See Stulz and Wilson.)						
Wilson, David, <i>et al.</i> (See Mahaffey, James B., assignor.)						
Wilson, David, county of Essex, England. Manufacture of telegraph and other poles or posts.....	374,103	Nov. 29	2729	{ 732 733 }	{ 41 }	1021
Wilson, David Y., Gum Tree, assignor of one-fourth to R. L. McClellan, Cochranville, Pa. Car-coupling.....	363,784	May 24	2436	631	39	957
Wilson, David Y., Gum Tree, assignor of one-fourth to R. L. McClellan, Cochranville, Pa. Car-coupling.....	369,576	Sept. 6	361	{ 100 101 }	{ 40 }	1103
Wilson, David Y., Gum Tree, assignor of one-fourth to R. L. McClellan and S. P. Rutherford, Cochranville, Pa. Car-coupling.....	372,350	Nov. 1	97	28, 29	41	490
Wilson, Edgar S. (See Hunt and Wilson.)						
Wilson, Elizabeth, Kokomo, Ind. Dust-deflector.....	358,098	Feb. 22	1963	518	38	809
Wilson, Floyd B., <i>et al.</i> (See Mills, George W., assignor.)						
Wilson, Francis T., assignor of three-fourths to F. B., E. B., and E. Gilbert, Gilbert Station, Iowa. Self-feeding hay-press.....	358,637	Mar. 1	322	77	38	963
Wilson, George, Minneapolis, Minn., assignor to C. Spur, Houghton, Dak. Ter. Plow.....	360,075	Mar. 29	2499	635	38	1400
Wilson, George F., Lawrence, Mass. Feeding device for sewing-machines.....	365,956	July 5	287	76	40	55
Wilson, George T., Boston, assignor of one-half to J. D'Esté, Salem, Mass. Valve.....	359,948	Mar. 22	2276	572	38	1352
Wilson, George T., Boston, assignor of one-half to J. D'Esté, Salem, Mass. Valve.....	359,949	Mar. 22	2277	572	38	1352
Wilson, George T., Boston, assignor of one-half to J. D'Esté, Salem, Mass. Valve.....	364,562	June 7	509	137	39	1184
Wilson, George T., Boston, assignor of one-half to J. D'Esté, Salem, Mass. Valve-operating mechanism.....	364,695	June 14	680	182	39	1225
Wilson, George W., assignor to himself and B. A. Man, Lanesborough, Minn. Washing-machine.....	364,879	June 14	975	256	39	1277
Wilson, George W., assignor to himself, H. C. Schelberg, and O. J. Wall, Lanesborough, Minn. Car-coupling.....	367,944	Aug. 9	887	241	40	628
Wilson, Harry L., Erie, Pa. Manufacture of hangers for steam-boilers.....	362,473	May 3	567	{ 157 158 }	{ 39 }	583
Wilson, Harry T., Hendersonville, Tenn. Railway-rail.....	368,638	Aug. 23	1871	499	40	833
Wilson, Henry H., Huntington, Ind. Table-leaf support.....	360,788	Apr. 5	551	143	39	104
Wilson, Hiram G., St. Louis Mo., assignor to Wilson Car Warming and Ventilating Company, East St. Louis, Ill. Car-heater.....	372,779	Nov. 8	745	202	41	619

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Wilson, Homer T., Lexington, Ky. Washing-machine	370,584	Sept. 27	1856	493	40	1404
Wilson, Horace G., Cincinnati, Ohio. Cheese-cutting device	367,689	Aug. 2	498	{ 137 138 }	{ 40 40 }	545
Wilson, Houghton W., Kingston, Ontario, Canada. Fence-post	356,517	Jan. 25	1747	455	38	356
Wilson, Houghton W., Kingston, Ontario, Canada. Gate	365,892	July 5	188	48	40	37
Wilson, J. Fred, Worcester, Mass. Spring-gun	374,104	Nov. 29	2731	733	41	1021
Wilson, James, Moundsville, W. Va. Lifting-jack	361,564	Apr. 19	1666	431	39	327
Wilson, James D. (See Williams and Wilson.)						
Wilson, James N. W., assignor of one-half to F. S. Hill, Upper Marlborough, Md. Bayonet attachment	358,911	Mar. 8	741	183	38	1045
Wilson, John A., Jr., Cincinnati, Ohio. Machine for making and attaching buckle-rolls	356,055	Jan. 11	1082	284	38	218
Wilson, John B., Marquette, Mich. Car-coupling	361,104	Apr. 12	1020	257	39	195
Wilson, John C., Boston, Mass. Polarized electro-magnet	362,135	May 3	113	34	39	495
Wilson, John C., assignor to J. T. Waring, Yonkers, N. Y. Pouncing felted articles	363,930	May 31	2646	687	39	1001
Wilson, John C., assignor to J. T. Waring, Yonkers, N. Y. Method of and apparatus for pouncing hats	366,804	July 19	1447	387	40	290
Wilson, John H. (See Jarboe, Walter S., assignor.)						
Wilson, John P., Poughkeepsie, N. Y. Dose-indicator and tumbler-cover	375,468	Dec. 27	1851	484	41	1431
Wilson, John R., Farmersville, Ohio. Corn-harvester	359,828	Mar. 22	2079	526	38	1316
Wilson, John S., Chicago, Ill. Screw-conveyer	372,950	Nov. 8	1005	271	41	664
Wilson, John T., assignor of one-half to Pittsburgh Forge and Iron Company, Pittsburg, Pa. Manufacture of draw-bars	356,812	Feb. 1	96	27	38	441
Wilson, John T., assignor of one-half to Pittsburgh Forge and Iron Company, Pittsburg, Pa. Manufacture of draw-bars	356,813	Feb. 1	97	27	38	441
Wilson, John T., assignor of one-half to Pittsburgh Forge and Iron Company, Pittsburg, Pa. Manufacture of draw-bars	356,814	Feb. 1	98	27	38	441
Wilson, John T., assignor of two-thirds to J. Hill and Pittsburgh Forge and Iron Company, Pittsburg, Pa. Die for the manufacture of draw-bars	367,690	Aug. 2	500	138	40	545
Wilson, John T., assignor of two-thirds to J. Hill and Pittsburgh Forge and Iron Company, Pittsburg, Pa. Blank for draw-bar heads	367,735	Aug. 2	582	158	40	560
Wilson, Levi H., St. Louis, Mo. Car-starter	358,999	Mar. 8	860	218	38	1067
Wilson, Martin M., Honey Grove, Tex. Spark-arrester for smoke-stacks	365,114	June 21	1328	352	39	1351
Wilson, Merrick F., Chicago, assignor of one-half to C. R. Steele and V. C. Price, Waukegan, Ill. Paper-box machine	369,900	Sept. 13	826	219	40	1200
Wilson & McCallay. (See Drayer, Adam U., assignor.)						
Wilson, N. B. (See Fennell, William T., assignor.)						
Wilson, Nathaniel, et al. (See Brawn, Rufus E., assignor.)						
Wilson, Norval E. and W. G., Hartford, Conn. Pedal attachment for pianos	366,285	July 12	732	199	40	146
Wilson, Robert, Bishop-Auckland, county of Durham, England. Manufacture of rock-boring rods	360,941	Apr. 12	781	203	39	151
Wilson, Robert J., Pittsburg, Pa. Automatic car-brake	363,310	May 17	1747	{ 457 458 }	{ 39 39 }	816
Wilson, Robert M., Danville, Pa. Sliding window-blind	374,105	Nov. 29	2732	733	41	1021
Wilson, Robert M., Danville, Pa. Sliding-door hanger	374,859	Dec. 13	982	257	41	1247
Wilson, Ruth E., Brooklyn, N. Y. Illuminated floral piece	362,691	May 10	890	242	39	646
Wilson, S. Otho, Raleigh, N. C. Tobacco-stick	355,579	Jan. 4	369	99	38	74
Wilson, Samuel J., Minneapolis, Minn., assignor to S. L. Kimball, Wellsborough, Pa. Hame-fastener	371,906	Oct. 18	1678	433	41	347
Wilson, Samuel R., Broken Hill, assignor to R. B. Pell and J. MacCabe, Silvertown, New South Wales. Ingot-mold	371,907	Oct. 18	1679	433	41	347
Wilson, Stephen, Jr., Philadelphia, Pa. Rope-hook	363,495	May 24	2020	527	39	879
Wilson, Theodore M., Canton, Ill. Device for packing cigars	361,604	Apr. 19	1729	446	39	338
Wilson, Thomas, Cleveland, Ohio. Convertible anchor and freight-hoisting apparatus for vessels	356,738	Jan. 25	2054	539	38	414
Wilson, Thomas D., Holly Grove, Ark. Combined fence and water-gate	363,350	May 17	1804	473	39	828
Wilson, Thomas D., Holly Grove, Ark. Fence	370,299	Sept. 20	1414	381	40	1316
Wilson, Thomas L., Port Hope, Ontario, Canada. Railway-car	371,403	Oct. 11	946	245	41	192
Wilson, William, Bloomington, Ill. Valve-gear	357,256	Feb. 8	753	{ 195 196 }	{ 38 38 }	569
Wilson, William, Bloomington, Ill. Spark-arrester	361,738	Apr. 26	1929	500	39	333
Wilson, William C. (See Sherman and Moore, assignors.)						
Wilson, William C., assignor of one-eighth to F. Raymond, Brooklyn, N. Y. Suspenders	358,912	Mar. 8	742	184	38	1045
Wilson, William G. (See Wilson, Norval E. and W. G.)						
Wilson, William H., Groesbeck, Tex. Harrow	373,709	Nov. 22	2166	579	41	904
Wilson, William J., Auburn, N. Y. Wheel for wheelbarrows	359,045	Mar. 8	918	233	38	1078
Wilson, William R., Waterville, Kans. Listing-cultivator	360,334	Mar. 29	2887	735	38	1472
Wilson, William W., New York, N. Y. Ribbon-holding attachment for type-writing machines	370,751	Sept. 27	2103	557	40	1451
Wilson, William W., and J. L. Newton, San Antonio, Tex. Barrel-truck	375,406	Dec. 27	1765	463	41	1413
Wilson's Sons & Company, P. (See Schoonmaker, Daniel, assignor.)						
Wilt, Orphila H. (See Lang, Samuel G., assignor.)						
Winans, Edwin, New York, N. Y. Power-transmitting machinery	374,027	Nov. 29	2611	701	41	997
Winans, John F. (See Hoover and Winans.)						
Winchell, James. (See Tracy and Winchell.)						
Winchell, James F., Springfield, Ohio. Crushing and grinding mill	365,717	June 28	2224	579	39	1532
Winchell, James F., Springfield, Ohio. Crushing and grinding machine	365,718	June 28	2227	580	39	1533
Winchell, James F., assignor to Foos Manufacturing Company, Springfield, Ohio. Hopper for grinding-mills	355,740	Jan. 11	619	162	38	131
Winchell, James F., assignor to Foos Manufacturing Company, Springfield, Ohio. Crushing and grinding mill	359,588	Mar. 15	1722	438	38	1234
Winchell, James F., Springfield, assignor to Lodge, Davis & Co., Cincinnati, Ohio. Drill-press	361,105	Apr. 12	1021	258	39	195
Winchester, Edward S., Dorchester, Mass. Latch	361,247	Apr. 12	1241	316	39	236
Winchester, Edward S., Boston, Mass. Door-latch	364,563	June 7	510	137	39	1184
Winchester Repeating Arms Company. (See Browning, John M. and M. S., assignors.)						
Winchester Repeating Arms Company. (See Carr, Howard, assignor.)						
Winchester Repeating Arms Company. (See Mason, William, assignor.)						
Winckler, Edouard, and J. J. Heilmann, Mulhouse, Germany. Shuttle-operating mechanism for circular looms	365,216	June 21	1462	{ 385 386 }	{ 39 39 }	1378
Windisch, John H., Oak Harbor, Ohio. Bolt-cutter	365,455	June 28	1828	476	39	1457
Windle, John, Barrow-in-Furness, county of Lancaster, England. Machine for making boiler-sections	358,524	Mar. 1	166	40	38	933
Windsor, Elijah, Oil City, Ontario, Canada. Hoop-planer knife	355,580	Jan. 4	370	99	38	74

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Windsor Locks Wax Paper Company. (See Wilkinson, Charles A., assignor.)						
Windsor Locks Wax Paper Company. (See Wilkinson and McDonald, assignors.)						
Wines, Edward, <i>et al.</i> (See Yarrington, Charles H., assignor.)						
Wines, Edward, New Haven, Conn., assignor of one-half to F. Beecher. Head-rest.....	365,719	June 28	2228	580	39	1533
Wines, Robert, assignor to J. S. Sullivan Saddle Tree Company, Jefferson City, Mo. Saddle-tree fork.....	357,297	Feb. 8	809	210	38	580
Winfield, William C., assignor of two-thirds to R. A. Cobb and O. R. Grimesey, Warren, Ohio. Lamp-filling can.....	362,474	May 3	568	158	39	584
Wing, Chauncey, Greenfield, Mass. Type-writing machine.....	363,570	May 21	2130	552	39	899
Wing, Daniel S., Syracuse, assignor of one-eighth to W. A. Cameron, New York, N. Y. Hand-truck.....	361,913	Apr. 26	2190	567	39	431
Wing, Daniel S., Syracuse, assignor of one-eighth to W. A. Cameron, New York, N. Y. Vehicle-wheel.....	361,914	Apr. 26	2191	568	39	431
Wing, Daniel S., Syracuse, assignor of one-eighth to W. A. Cameron, New York, N. Y. Bag-holder.....	362,807	May 10	1054	286	39	676
Wing, Levi J., New York, and T. A. Richards, Brooklyn, N. Y. Oscillating engine.....	363,496	May 24	2021	527	39	879
Wing, Simon, Boston, Mass. Photographic camera.....	361,387	Apr. 19	1434	{ 370 371 }	{ 39 39 }	{ 282 283 }
Wing, Simon, Boston, Mass. Plate-holder for photographic cameras.....	361,388	Apr. 19	1436	371	39	283
Wing, William S., <i>et al.</i> (See Cook, Willard L., assignor.)						
Winget, Marion A., Columbus, Ohio. Cigar-bunching machine.....	369,145	Aug. 30	2592	688	40	982
Winings, Albert S., Lake City, Ill. Corn-planter.....	373,212	Nov. 15	1417	374	41	749
Winkler, Alois, Vienna, Austria-Hungary. Embossed sign-plate.....	364,389	June 7	248	70	39	1136
Winkler, Alois, Oneonta, N. Y. Seat.....	370,029	Sept. 13	1032	272	40	1236
Winkler, Alois, Oneonta, assignor of one-half to W. H. Bennett, Rochester, N. Y. School-seat.....	369,829	Sept. 13	709	191	40	1177
Winkley, Albert A., Faribault, Minn. Artificial limb.....	371,239	Oct. 11	714	184	41	149
Winn, John B., Watertown, Dak. Ter. Lifting-jack.....	367,881	Aug. 9	793	214	40	611
Winne, William I., Albany, N. Y. Page-fastener for books.....	374,386	Dec. 6	305	81	41	1104
Winnek, Frederick G., assignor of one-half to J. H. Hunter, Leavenworth, Kans. Furniture wall-protector.....	355,960	Jan. 11	957	250	38	194
Winniatt, Harry. (See Jones and Winniatt.)						
Winslow Coupling Company. (See Winslow, Eugene M., assignor.)						
Winslow, Edward N., Lawrence, Mass. Trousers-stretcher.....	373,545	Nov. 22	1934	512	41	857
Winslow, Eugene M., Moriah, assignor to Winslow Coupling Company, New York, N. Y. Shifting bar for sleighs.....	366,548	July 12	1076	292	40	214
Winslow, Joseph H., Cambridge City, Ind. Band-cutter and feeder.....	374,513	Dec. 6	488	127	41	1140
Winslow, William H., Chicago, Ill. Shelving.....	360,547	Apr. 5	226	57	39	44
Winsor, Joseph S., Jr., Worcester, Mass. Holder for reaming-tools.....	366,908	July 19	1583	424	40	316
Winsteadley, John, G. L. Smith, and T. L. Melven, Louisville, Ky. Foot and bottom for vessels.....	355,495	Jan. 4	261	69	38	53
Winston, Alexander, assignor of one-half to D. M. Ferguson, Fayette, Iowa. Corn-planter.....	364,155	May 31	2971	772	39	1064
Winter, Caroline H., assignor of one-half to S. C. Johnson, Philadelphia, Pa. Instep-pad for shoes.....	374,106	Nov. 29	2733	733	41	1021
Winter, David T., Peabody, Mass. Egg-beater.....	372,282	Oct. 25	2242	575	41	461
Winterhoff, Louisa, Hammersmith, London, county of Middlesex, England. Decorating glass.....	357,354	Feb. 8	878	.....	38	593
Winters, Charles. (See Mortenson, Hans, assignor.)						
Winton, Henry D. (See Hersey and Winton.)						
Winton, Henry D., Wellesley Hills, Mass. Holder for metal articles.....	361,248	Apr. 12	1242	{ 316 317 }	{ 39 39 }	{ 236 236 }
Wintrode, Charles E., Huntington, Ind. Adjustable wire-twisting wrench.....	368,438	Aug. 16	1594	425	40	772
Wintrode, Charles E., Huntington, Ind. Tension device for making picket fences.....	370,585	Sept. 27	1857	493	40	1404
Wintrode, Charles E., and E. L. Griffith, Huntington, Ind. Folding feed-box for wagons.....	366,549	July 12	1078	292	40	214
Wintrode, Jacob, <i>et al.</i> (See Cochran, William A., assignor.)						
Wintrode, Jacob, Huntington, Ind. Tension device for use in constructing wire-and-picket fences.....	368,561	Aug. 16	1773	471	40	806
Wintrode, Jacob, Huntington, Ind. Picket fence.....	369,671	Sept. 6	499	137	40	1130
Wintz, James P., assignor of one-third to J. O. Flynn, Charleston, W. Va. Pistol or mace holder.....	372,000	Oct. 25	1810	469	41	382
Wire Fabric Rubber Company. (See Meacom, George, assignor.)						
Wire Fence Improvement Company. (See Duncan, Sylvester F., assignor.)						
Wire Grip Fastening Company. (See Seymour, Oliver E., assignor.)						
Wirgman, Grafton B., Philadelphia, Pa. Portable folding canopy.....	363,713	May 24	2341	607	39	939
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen.....	358,525	Mar. 1	168	40	38	934
Wirt, Paul E., Bloomsburg, Pa. Lead-pencil.....	370,438	Sept. 27	1625	433	40	1363
Wirt, Paul E., and J. K. Bittenbender, Bloomsburg, Pa. Clamp or press.....	371,292	Oct. 11	790	202	41	163
Wirt, Reuben D., Independence, Mo. Hose-reel.....	358,953	Mar. 8	794	200	38	1056
Wirt, Reuben D., Independence, Mo. Hose-reel.....	366,909	July 19	1584	424	40	316
Wirz, Henry M., Wallingford, Pa. Screw-cap for collapsible tubes.....	359,305	Mar. 15	1264	327	38	1150
Wirz, Henry M., Philadelphia, Pa. Device for applying blacking on ladies' shoes.....	359,527	Mar. 15	1604	411	38	1214
Wischker, Martin D., Riga, Russia. Scroll-sawing machine.....	361,800	Apr. 26	2032	526	39	399
Wisdom, John, Moose Lake, Minn. Logging-sled.....	367,172	July 26	1942	524	40	391
Wise Bros. (See Crain, William O., assignor.)						
Wise, Cliff, Kansas City, Mo. Cable railway.....	357,162	Feb. 1	622	{ 160 161 }	{ 38 38 }	{ 535 535 }
Wise, David, and R. Rountree, Cottondale, Tex. Ant-trap.....	355,366	Jan. 4	100	27	38	21
Wise, David, and P. A. Myers, Ashland, Ohio. Combined road scraper and roller.....	367,736	Aug. 2	583	158	40	560
Wise, Joseph O. V. (See Wise, William O. and J. O. V.)						
Wise, Morris, assignor of one-half to L. A. Cohn, New York, N. Y. Boot or shoe.....	375,663	Dec. 27	2129	553	41	1482
Wise, Morris, New York, assignor to himself and T. Knight, Brooklyn, N. Y., and E. T. Fellows, Englewood, N. J. Manufacture of boots or shoes.....	366,142	July 5	533	144	40	101
Wise, William O. and J. O. V., Canfield, Colo. Chute.....	365,421	June 28	1777	462	39	1448
Wiseman, James H., Clarksville, assignor of one-half to J. F. Smith, Shiloh, Tenn. Car-coupling.....	373,040	Nov. 8	1149	307	41	691
Wiseman, James L., Montreal, Quebec, Canada. Head-rest for railway-cars.....	360,789	Apr. 5	552	143	39	104
Wisner, Ferdinand H. (See Yeomans, Manning R., assignor.)						
Wiswell, Ebenezer. (See Berger, John, assignor.)						
Wiswell, Gregg W., San Francisco, Cal. Injector feed-cock.....	373,710	Nov. 22	2167	580	41	904
Witek, Anton, New York, N. Y. Window-chair.....	367,259	July 26	2078	562	40	417
Witherell, Erie A., assignor of one-half to J. C. McHart, Davenport, Iowa. Spring-scale.....	363,873	May 31	2563	665	39	987
Witherell, Frank D. (See De Costa, Childs, and Witherell.)						
Witherell, Henry A., assignor to Rockford Silver Plate Company, Rockford, Ill. Caster.....	367,329	July 26	2178	586	40	435
Witherell, Loren R., Davenport, Iowa. Folding umbrella-frame.....	371,652	Oct. 18	1289	334	41	270

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Witherell, Loren R., Davenport, Iowa. Plantation weighing-scale	373,326	Nov. 15	1581	418	41	780
Witherell, Loren R., assignor of one-half to E. Russell and J. N. Greer, Davenport, Iowa. Spherical coffee-roaster	361,660	Apr. 19	1816	471	39	355
Witherell, Willard. (See Carson and Witherell.)						
Withers, Isaac G., New York, N. Y. Musical chart	359,829	Mar. 22	2081	527	38	1317
Withers, William T., Liberty, Mo. Measuring oil-tank	364,326	June 7	159	44, 45	39	1119
Withers, William T., Liberty, Mo. Measuring-faucet	371,240	Oct. 11	715	184	41	149
Withey, Ervin E., Syracuse, N. Y. Horse-collar-pad attachment	375,111	Dec. 20	1377	358	41	1328
Witley, Richard. (See Clark, George Z., assignor.)						
Witmer, John A., Wakarusa, Ind. Road-cart	371,115	Oct. 4	544	139	41	108
Witmer, Joseph C., assignor of one-half to J. B. Breueggemann, St. Louis, Mo. Combined steering device and brake for vessels	367,771	Aug. 2	633	170	40	570
Witmeyer, August. (See Sherman, Willis S., assignor.)						
Witt, Julius, Los Angeles, Cal. Motor for velocipedes	361,341	Apr. 19	1367	351	39	270
Witt, Richard G. A., Minneapolis, Minn. Glass-mold	360,076	Mar. 29	2501	635	38	1400
Witt, Richard G. A., assignor of one-half to F. L. Reiman, Minneapolis, Minn. Manufacturing glass globes	373,117	Nov. 15	1261	.....	41	722
Witte, Gustave A., Jr. (See Gentzsch, Theodore, assignor.)						
Witte, Gustave A., Jr. (See Gentzsch and Witte.)						
Witte, Victor, <i>et al.</i> (See Holroyd, John, assignor.)						
Wittmann Brothers. (See Gumbrecht, Eugen, assignor.)						
Wittenberg, Charles, Indianapolis, Ind. Cash-box drawer	368,639	Aug. 23	1872	499	40	833
Wittenberg, Charles, assignor to E. G. Cornelius, Indianapolis, Ind. Telephone-cabinet ..	355,741	Jan. 11	620	162	38	131
Wittenberg, Charles, assignor to E. G. Cornelius, Indianapolis, Ind. Alarm and register attachment for telephones	355,742	Jan. 11	621	162	38	132
Wittenberg, Charles, assignor to E. G. Cornelius, Indianapolis, Ind. Telephone-register ..	355,743	Jan. 11	622	163	38	132
Wittenberg, Charles, assignor to E. G. Cornelius, Indianapolis, Ind. Telephone-toll collector and register	355,744	Jan. 11	624	163	38	132
Wittenberg, Charles, assignor to E. G. Cornelius, Indianapolis, Ind. Register attachment for telephones	355,745	Jan. 11	625	163	38	132
Wittenberg, Charles, assignor to E. G. Cornelius, Indianapolis, Ind. Telephone-toll collector and register	355,746	Jan. 11	626	{ 163 164 }	{ 38 38 }	132
Wittenberg, Charles, assignor to E. G. Cornelius, Indianapolis, Ind. Return attachment for telephone toll-collectors	359,306	Mar. 15	1264	327	38	1151
Wittenberg, Charles, assignor to E. G. Cornelius, Indianapolis, Ind. Telephone-register ..	359,307	Mar. 15	1265	328	38	1151
Wittenberg, Charles, assignor to E. G. Cornelius, Indianapolis, Ind. Telephone-register ..	359,308	Mar. 15	1267	328	38	1151
Witter, Frank E., Canterbury, Conn. Bevel	358,181	Feb. 22	2098	554	38	834
Withhoft, William, Jr., assignor of one-third to L. F. Boeckstiegel, St. Louis, Mo. Hanging device for picture and mirror frames	366,989	July 19	1688	454	40	335
Wittman, Leonard, Pittsburg, Pa. Washing-machine	359,195	Mar. 8	1107	288	38	1115
Wittmann, Rudolf C., East New York, assignor to himself and A. F. Bernsee, Brooklyn, N. Y. Pneumatic clock	359,830	Mar. 22	2085	527	38	1317
Wixom, Justin D. (See Shaw and Wixom.)						
Woehrle, Albert C., New York, N. Y. Electric door-opener	374,028	Nov. 29	2613	{ 701 702 }	{ 41 41 }	998
Woelfel, Joseph, assignor to J. Hanson, Philadelphia, Pa. Cloth-gigging machine	358,136	Feb. 22	2030	{ 533 534 }	{ 38 38 }	821
Woerd, Charles V., Waltham, Mass. Machine for drilling and splitting collets	357,514	Feb. 8	1102	{ 290 291 }	{ 38 38 }	636
Woerd, Charles V., Waltham, Mass. Lathe for forming pivots of balance-wheel staffs ..	372,001	Oct. 25	1811	469	41	382
Woerd, Charles V., Waltham, Mass. Chuck for watch-movement plates	372,092	Oct. 25	1812	469	41	382
Woerd, Charles V., Waltham, Mass. Escapement for time-pieces	372,003	Oct. 25	1813	469	41	382
Wojan, Herrmann, Brooklyn, N. Y. Boiler	367,488	Aug. 2	189	53	40	487
Wolcott, Henry J., Albion, Mich. Windmill	365,422	June 28	1777	462	39	1448
Wolcott, Walter B. (See Butler, Aron G., assignor.)						
Wolf, Clarence, Philadelphia, Pa. Envelope gumming and drying apparatus	361,106	Apr. 12	1022	258	39	195
Wolf, Daniel. (See Hillebrand, Louis, assignor.)						
Wolf, Frederick, Newport, Ky. Packing apparatus	365,217	June 21	1464	386	39	1378
Wolf, Jacob, and W. F. Morell, Cutchogue, N. Y. Spring-seat for wagons	367,772	Aug. 2	635	170	40	570
Wolf, Josef, Hoboken, N. J., assignor of one-half to A. Muller, New York, N. Y. Lock-hinge ..	365,160	June 21	1395	368	39	1363
Wolf, Joseph. (See Eilmann, Johan H., assignor.)						
Wolfe, Harvey R., assignor to A. G. Munn, trustee, Louisville, Ky. Car-brake	357,257	Feb. 8	755	{ 196 197 }	{ 38 38 }	570
Wolfe, Jacob W., assignor of one-half to A. L. Ritchey, Nashville, Tenn. Grate and fire-back for fire-places	363,308	May 17	1745	457	39	816
Wolfe, Joseph C. (See Caldwell and Wolfe.)						
Wolfe, Charles H. (See Exner, William, assignor.)						
Wolff, Adolph, Rochester, N. Y. Sled	365,161	June 21	1376	368	39	1363
Wolff, Bernhard, New York, N. Y. Boa	364,617	June 7	573	154	39	1195
Wolff, Leo. (See Kleber, Emil, assignor.)						
Wolff Manufacturing Company, L. (See Clifford, John, assignor.)						
Wolff, Oscar, <i>et al.</i> (See Morris, Isaac L., assignor.)						
Wolff & Son, E. (See Penley, William G. R., assignor.)						
Wolff, William. (See Reisky and Wolff.)						
Wolff, William A. (See Fowler, George B., assignor.)						
Wolfinger, Francis R., assignor of one-half to P. H. Heffron, Chicago, Ill. Folding bed....	372,004	Oct. 25	1815	470	41	383
Wolford, Winfield S., <i>et al.</i> (See Roop, Frank, assignor.)						
Wolfram, Herman A., West Troy, N. Y. Saw-table gage	361,605	Apr. 19	1730	447	39	338
Woll, Joseph E., Pittsburg, Pa. Sash-fastener	369,146	Aug. 30	2594	689	40	982
Woll, Joseph E., Pittsburg, Pa. Thill-coupling	370,839	Oct. 4	122	32	41	25
Wolle, Clarence A., <i>et al.</i> (See Claussen, Edward E., assignor.)						
Wolle, Clarence A., <i>et al.</i> (See Honiss, William H., assignor.)						
Wolle, Clarence A., <i>et al.</i> (See Lorenz and Honiss, assignors.)						
Wollensak, John F. (See Mehren, Jacob F., assignor.)						
Wollensak, John F., Chicago, Ill. Lock for drawers	368,697	Aug. 23	1967	521	40	851
Wollensak, John F., Chicago, Ill. Trap-lock	369,901	Sept. 13	829	220	40	1201
Wollensak, John F., Chicago, Ill. Trap-lock	372,834	Nov. 8	839	{ 223 224 }	{ 41 41 }	634
Wollworth, Thomas, Cincinnati, Ohio. Smoothing-iron	369,830	Sept. 13	711	191	40	1178
Wolpert, Adolf, Nuremberg, Bavaria, Germany. Apparatus for measuring the carbonic-acid gas in the atmosphere	371,653	Oct. 18	1290	335	41	270
Wolter, Herman E., Denver, Colo. Bed-sofa	366,707	July 19	1320	354	40	267
Wolters, Franz. (See Bosse, Freise, and Wolters.)						
Wolters, Heinrich. (See Ludewigs, Otto, assignor.)						
Woltmann, Emil C. A., Plainfield, N. J. Label-holder for pigeon-holes, &c.	364,196	May 31	3030	788	39	1076

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Wolverton, George, assignor of one-half to B. T. Bailey, Charles City, Iowa. Plow.....	371,908	Oct. 18	1680	433	41	347
Wood, Albert A., assignor to J. R. Wilkinson, Atlanta, Ga. Paper-box machine.....	365,766	June 28	2299	598	39	1547
Wood, Alfred, assignor of one-third to E. S. Barbour, Detroit, Mich. Curtain-ring.....	364,197	May 31	3032	788	39	1076
Wood, Allen G., Utica, N. Y. Tail-piece for banjos or violins.....	360,790	Apr. 5	552	144	39	104
Wood, Amos L., trustee. (See Haynes, Cornelius E., assignor.)						
Wood, Andrew G., Philadelphia, Pa., and C. S. Brown, Camden, N. J. Manufacture of boots and shoes.....	374,029	Nov. 29	2615	702	41	998
Wood, Anna O. (See Sutton and Wood.)						
Wood, Arthur. (See Howard and Brayton, assignors.)						
Wood, Aurin, Worcester, assignor to Sawyer Spindle Company, Boston, Mass. Spindle-support for spinning-machines.....	364,880	June 14	976	256	39	1278
Wood, Aurin, Worcester, assignor to Sawyer Spindle Company, Boston, Mass. Support for spinning-spindles.....	371,404	Oct. 11	948	245	41	192
Wood, Aurin, Worcester, Mass., assignor to G. Place, New York, N. Y. Bolt-cutter.....	375,037	Dec. 20	1266	331	41	1308
Wood, Aurin, Worcester, Mass., and G. Place; said Wood assignor to C. Van Brunt, New York, N. Y. Centering-machine.....	363,874	May 31	2566	666	39	987
Wood, Bishop & Co. (See Wood and Brown, assignors.)						
Wood & Boyd. (See Robinson, Edgar, assignor.)						
Wood, Charles H., and E. M. Brown, assignors to Wood, Bishop & Co., Bangor, Me. Device for opening stove-doors.....	357,298	Feb. 8	810	210	38	580
Wood & Co., George H. (See Daggett, John C., assignor.)						
Wood, Cornelia C., Sibley, Iowa. Bunk for railway-cars.....	362,692	May 10	891	243	39	646
Wood, David I., Petersburg, Va. Fence-making machine.....	355,429	Jan. 4	177	47	38	36
Wood, Edward L., assignor of one-half to C. B. Seward and F. Shippen, Hoboken, N. J. Hose or tubing.....	368,364	Aug. 16	1485	395	40	751
Wood, Edwin A., Utica, N. Y. Radiator.....	371,017	Oct. 4	416	104	41	83
Wood, Ellis B., Van Orin, Ill. Hog-trough.....	364,327	June 7	161	45	39	1119
Wood, Evans, Lyons, Tex. Animal-trap.....	374,135	Nov. 29	2773	746	41	1028
Wood, Frank B., New York, N. Y., assignor to New Haven Clock Company, New Haven, Conn. Electric bell.....	359,309	Mar. 15	1268	328	38	1151
Wood, Irving T. (See Geiger and Wood.)						
Wood, James, Pittsburg, Pa. Ornamentation of sheet metal.....	366,286	July 12	733	199	40	146
Wood, James, Pittsburg, Pa. Ornamented sheet metal.....	369,147	Aug. 30	2595	6-9	40	982
Wood, James F., Philadelphia, Pa. Holder for blacking.....	360,335	Mar. 29	2-87	735	38	1472
Wood, James F., Woodyard, Ohio. Coffee-pot.....	363,931	May 31	2648	687	39	1001
Wood, John and R., Leith, county of Mid-Lothian, Scotland. Pulp-strainer.....	361,107	Apr. 12	1023	258	39	195
Wood, John B., assignor to M. M. Wood, Brooklyn, N. Y. Drawers.....	363,445	May 24	1937	508	39	861
Wood, John B., Camden, N. J., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental polisher.....	362,808	May 10	1054	287	39	677
Wood, John P., assignor of one-fourth to M. R. Denning, Manistee, Mich. Automatic car-brake.....	375,407	Dec. 27	1766	463	41	1414
Wood, John R., Aspen, Colo., and C. C. Nicholls, St. Louis, Mo. Foot-block and caster attachment for furniture.....	371,116	Oct. 4	546	139	41	108
Wood, John S., Oak Park, Ill. Pen-fountain.....	359,702	Mar. 22	1888	479	38	1282
Wood, Joseph S., Brooklyn, N. Y. Gas-engine.....	363,497	May 24	2023	527	39	879
Wood, Lucius A., Worcester, Mass. Spring-bed.....	355,747	Jan. 11	627	164	38	133
Wood, Lucius A., assignor of one-half to Brand Manufacturing Company, New Britain, Conn. Organ-reed.....	373,118	Nov. 15	1263	334	41	722
Wood, Mary M. (See Wood, John B., assignor.)						
Wood Mowing and Reaping Machine Company, Walter A. (See Harrison, John, assignor.)						
Wood, Newel B., assignor of one-half to L. C. Coffman, Washington Court-House, Ohio. Apparatus for baling and binding straw, &c.....	367,489	Aug. 2	190	{ 53 54 55 }	{ 40 }	487
Wood, Newel B., assignor to L. C. Coffman, Washington Court-House, Ohio. Self-binding straw-compressor.....	367,490	Aug. 2	196	55.56	40	489
Wood, Oscar D., Passaic, N. J. Spirit-level.....	365,033	June 14	1197	316	39	1317
Wood, Patrick F. (See Babbitt and Wood.)						
Wood, Richard G., Cincinnati, Ohio, and P. Reilly, Newark, N. J.; said Wood assignor to said Reilly. Machine for japanning and enameling leather.....	357,515	Feb. 8	1107	{ 291 292 }	{ 38 }	636
Wood, Richard S., and E. N. Dunderdale, Manchester, county of Lancaster, England. Machine for chamfering and facing screw-nuts.....	371,654	Oct. 18	1292	335	41	271
Wood, Robert. (See Wood, John and R.)						
Wood, Robert L., Cheltenham, county of Gloucester, and W. W. Crisp, 314 Regent Street, county of Middlesex, England. Riding-trousers.....	373,628	Nov. 22	2053	{ 546 547 }	{ 41 }	880
Wood, Stephen W., Cornwall, N. Y. Motor for street-cars.....	364,881	June 14	977	{ 256 257 }	{ 39 }	1278
Wood, Thomas W. (See Wood, Walter J. and T. W.)						
Wood, Thomas W., Atlanta, Ga. Washing-machine.....	359,238	Mar. 8	1168	304	38	1125
Wood, W. Dewees, Pittsburg, Pa. Pipe.....	358,370	Feb. 22	2343	622	38	881
Wood, Wallace R., Chicago, Ill. Banjo.....	370,172	Sept. 20	1250	332	40	1285
Wood, Walter J. and T. W., Atlanta, Ga. Stove-pipe-crimping machine.....	357,883	Feb. 15	1662	432	38	749
Wood, William, Galveston, Tex. Time-calculator.....	370,364	Sept. 20	1514	{ 405 406 }	{ 40 }	1335
Wood, William B., Jersey City, N. J. Printing-telegraph.....	369,577	Sept. 6	362	101	40	1103
Wood, William C., New York, N. Y. Switch for street-railways.....	359,987	Mar. 22	2337	588	38	1363
Wood, William H., Rochester, N. Y. Button shoe.....	369,087	Aug. 30	2525	670	40	967
Woodard, Abraham, Rupert, Vt. Remedy for diseases of the liver, &c.....	375,112	Dec. 20	1378	.....	41	1329
Woodard, John H., Lapeer, Mich. Whiffletree.....	369,625	Sept. 6	436	122	40	1118
Woodbridge, John E., Youngstown, Ohio. Speculum.....	357,163	Feb. 1	624	161	38	536
Woodbury, Benjamin C., Patten, Me. Snow-shoe attachment.....	375,522	Dec. 27	1917	502	41	1444
Woodbury, Daniel, Minneapolis, Minn. Brick-machine.....	370,173	Sept. 20	1251	{ 332 333 }	{ 40 }	1285
Woodbury, Daniel A., Rochester, N. Y. Crank-shaft.....	357,884	Feb. 15	1663	433	38	749
Woodbury, Daniel A., Rochester, N. Y. Steam-governor.....	360,336	Mar. 29	2888	{ 735 736 }	{ 38 }	1472
Woodbury, Isaac A., Cambridge, Mass. Tube-cleaner.....	361,389	Apr. 19	1438	371	39	283
Woodbury, James A., Winchester, Mass. Car-wheel.....	373,213	Nov. 15	1420	375	41	750
Woodbury, Levi, Washington, D. C., assignor of two-thirds to E. H. Graham, Biddeford, Me. Needle-loom.....	361,801	Apr. 26	2033	526	39	400
Woodbury, Orlando. (See Mackay, George H., assignor.)						
Woodbury, Samuel S., Bradford, Pa. Stopper-fastener.....	355,748	Jan. 11	628	164	38	133
Woodbury, Stephen W., Winchester, N. H. Cigar-protector.....	372,442	Nov. 1	236	65	41	514
Woodcock, Leonard M., Auburn, N. Y. Furnace-grate.....	359,120	Mar. 8	1013	{ 261 262 }	{ 38 }	1097
Woodfill, John I., Junction City, Mo. Manifold-copying device.....	355,749	Jan. 11	629	164	38	133

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Woodford, David, West Mentor, Ohio. Wire fence	374,884	Dec. 13	1020	267	41	1254
Woodford, Henry E., assignor of one-half to Essex Horse Nail Company, (limited,) Essex, N. Y. Horseshoe-nail-finishing machine	358,099	Feb. 22	1964	519	38	810
Woodford, Henry E., assignor of one-half to Essex Horse Nail Company, (limited,) Essex, N. Y. Horseshoe nail-finishing machine	374,227	Dec. 6	80	21	41	1062
Woodford, Romanta D. (See Duffey and Woodford.)						
Woodford, William H., Owensborough, Ky. Gate-latch	370,586	Sept. 27	1858	493	40	1404
Woodham, Edwin, Hanbury Street, Mile End, and P. Ockenden, London Wall, county of Middlesex, assignors to Roberts & Son, London, England. Bottle-stopper	359,373	Mar. 15	1358	351	38	1169
Woodhead, Lawrence J., Chattanooga, Tenn. Dumping-car	364,618	June 7	573	154	39	1195
Woodhead, North A., Philadelphia, Pa. Loom for weaving looped or terry fabrics	372,005	Oct. 25	1816	470	41	383
Woodhull, Mitchell H., and C. M. Blydenburgh, Riverhead, N. Y.; said Blydenburgh assignor to said Woodhull. Carriage-pole	366,442	July 12	929	253	40	184
Woodhull, Morris, Dayton, Ohio. Vehicle-gear	371,293	Oct. 11	793	202	41	163
Woodhurst, Hazzard, Perry, assignor of three-fourths to E. Wayland, C. M. Smith, and T. E. Crigler, Monroe City, Mo. Fruit-gatherer	362,475	May 3	569	158	39	584
Woodley, William J., San Francisco, Cal. Faucet hole and stopper combined	362,809	May 10	1055	287	39	677
Woodman, Benjamin F., and L. H. Evans, Parsons, Kans. Fence-machine	375,434	Dec. 27	1803	{ 471 472 }	{ 41 41 }	{ 1421 1421 }
Woodman, Clark, Omaha, Nebr. Oil-press plate	369,761	Sept. 13	611	165	40	1159
Woodman, Herbert J., Lowell, Mass. Spinning-machine	364,742	June 14	750	199	39	1237
Woodrome, Barton C., West Plains, Mo. Washing-machine	375,664	Dec. 27	2130	{ 553 554 }	{ 41 41 }	{ 1482 1482 }
Woodrough & McParlin. (See Wuest, Frederick, assignor.)						
Woodrow, William E., Cambridge, Md. Knife for cutting barrel-staves	372,998	Nov. 8	1079	288	41	678
Woodruff, Edmund W., Washington, D. C. Paper or file holder	358,240	Feb. 22	2168	572	38	848
Woodruff, Horace W., assignor to Woodruff Portable Safe Company, Cincinnati, Ohio. Portable safe for valuables	363,714	May 24	2342	608	39	939
Woodruff, Luther J., Mohawk, assignor of one-half to J. M. Ausman, Herkimer, N. Y. Folding table	365,034	June 14	1198	316	39	1317
Woodruff, Oliver D., Southington, Conn. Meat-cutter	368,041	Aug. 9	1021	275	40	654
Woodruff, Oliver D., Southington, Conn., assignor to American Machine Company, Philadelphia, Pa. Meat-cutter	374,568	Dec. 6	578	151	41	1158
Woodruff Portable Safe Company. (See Woodruff, Horace W., assignor.)						
Woodruff, Theodore T., Philadelphia, Pa., assignor of one-half to C. E. Convis, New York, N. Y. Locomotive-engine	356,085	Jan. 11	1132	{ 298 299 }	{ 38 38 }	{ 226 226 }
Woodruff, William L., Towanda, Pa. Lawn-mower	362,862	May 10	1125	303	39	689
Woodruff, William N., Hartford, Conn. Shaft-key	368,744	Aug. 23	2031	538	40	864
Woods Electric Company. (See Woods, Granville T., assignor.)						
Woods, George, Needham, Mass. Toy gun	358,526	Mar. 1	174	40	38	934
Woods, George, Needham, Mass. Plumb-level for boring-bits	371,294	Oct. 11	794	203	41	163
Woods, Granville T., Cincinnati, Ohio. Relay-instrument	364,619	June 7	575	154	39	1196
Woods, Granville T., Cincinnati, Ohio. Polarized relay	366,192	July 5	599	162	40	113
Woods, Granville T., assignor to Woods Electric Company, Cincinnati, Ohio. Electro-mechanical brake	368,265	Aug. 16	1355	357	40	724
Woods, Granville T., Cincinnati, Ohio, assignor to Woods Electric Company. Telephone system and apparatus	371,241	Oct. 11	717	184	41	149
Woods, Granville T., assignor to Woods Electric Company, Cincinnati, Ohio. Electro-magnetic brake apparatus	371,655	Oct. 18	1293	336	41	271
Woods, Granville T., assignor to Woods Electric Company, Cincinnati, Ohio. Railway telegraphy	373,383	Nov. 15	1673	444	41	797
Woods, Granville T., Cincinnati, Ohio, assignor, by mesne assignments, to Woods Electric Company. Induction-telegraph system	373,915	Nov. 29	2458	660	41	967
Woods, Harry. (See Allen, Levi D., assignor.)						
Woods Machine Company, S. A. (See Eastman and Thomas, assignors.)						
Woods Machine Company, S. A. (See McHenry, Abram, assignor.)						
Woods Machine Company, S. A. (See Thomas, John R., assignor.)						
Woods Machine Company, S. A. (See Woods, Solomon A., assignor.)						
Woods Machine Company, S. A. (See Woods and Thomas, assignors.)						
Woods, Reuben E., Montgomery, Minn. Car-coupling	358,182	Feb. 22	2099	554	38	834
Woods, Rollin, Mankato, Kans. Harrow-cultivator for listed corn	359,988	Mar. 22	2339	588	38	1363
Woods, Sherwood & Co. (See Sherwood and Dudley, assignors.)						
Woods, Solomon A., Boston, Mass. Circular sawing machine	364,328	June 7	161	45, 46	39	1119
Woods, Solomon A., Boston, Mass. Planing-machine	364,743	June 14	751	{ 199 200 201 }	{ 39 39 39 }	{ 1238 1238 1238 }
Woods, Solomon A., Boston, Mass., assignor to S. A. Woods Machine Company. Planing-machine	364,329	June 7	164	46	39	1120
Woods, Solomon A., and J. R. Thomas, Boston, Mass., assignors to S. A. Woods Machine Company. Planing-machine	374,283	Dec. 6	149	{ 39 40 41 }	{ 41 41 41 }	{ 1076 1076 1076 }
Woods, William J., New York, N. Y. Whiffletree-hook	367,126	July 26	1884	510	40	380
Woodson, Leland. (See Todd, Benjamin F., assignor.)						
Woodstock, Warren Z., Carthage, Mo., assignor of one-half to A. A. Ulman, Bay St. Louis, Miss. Shedding mechanism for looms	360,398	Mar. 29	2984	756	38	1487
Woodward, Alexander. (See Reno, Griffin, assignor.)						
Woodward, Amos W., Rockford, Ill. Oatmeal-machine	363,875	May 31	2567	{ 666 667 }	{ 39 38 }	{ 987 987 }
Woodward, Benjamin S., assignor to Woodward & Rogers, Hartford, Conn. Tool-holder	355,367	Jan. 4	101	27	38	21
Woodward, Charles E. W., et al. (See Downes, Moses H., assignor.)						
Woodward, Charles E. W., Cambridge, assignor of one-half to Overman Wheel Company, Chicopee, Mass. Cyclometer	374,919	Dec. 13	1084	283	41	1267
Woodward, Erastus, Somerville, Mass., assignor to Copeland Improved Lasting and Tackling Company, Portland, Me. Tack-driving machine	365,497	June 28	1886	491	39	1469
Woodward, Frank R., Hill, N. H. Tree-protector	356,389	Jan. 18	1561	411	38	313
Woodward, George B. (See Barclay, James A., assignor.)						
Woodward, George W., Brooklyn, assignor to Ansonia Brass and Copper Company, and W. A. Hull, New York, N. Y. Suspension device	357,695	Feb. 15	1392	{ 366 367 }	{ 38 38 }	{ 699 699 }
Woodward, George W., Brooklyn, assignor to Ansonia Brass and Copper Company and W. A. Hull, New York, N. Y. Wick-raising mechanism	366,805	July 19	1448	387	40	290
Woodward, John M., Romansville, Pa. Combined planter and fertilizer-distributer	355,630	Jan. 4	437	{ 120 121 }	{ 38 38 }	{ 86 86 }
Woodward, Joseph W. (See Thomas and Woodward.)						
Woodward & Rogers. (See Woodward, Benjamin S., assignor.)						
Woodward, Russel G. (See Muther and Woodward.)						
Woodward, Stephen, Sunapee, N. H. Ox-yoke	363,876	May 31	2568	667	39	987

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Woodward, Theodor B., Norway, Pa. Snow-melter	361,739	Apr. 26	1930	501	39	383
Woodward, William A., New York, N. Y. Dental matrix	368,042	Aug. 9	1023	276	40	654
Woodward, William D., assignor of one-half to A. S. Harrington, Plattsburg, N. Y. Rail- way-switch	367,882	Aug. 9	794	{ 214 215 }	{ 40 }	611
Woodward, William D., assignor of two-thirds to A. L. Roberts and M. H. O'Brien, Platts- burg, N. Y. Car-coupling	366,990	July 19	1690	{ 454 455 }	{ 40 }	336
Woodworth, David G., Larkin, Kans. Stacker	366,443	July 12	929	253	40	185
Woodworth, Gertrude H., Algona, Iowa. Foot-rest for stoves	359,046	Mar. 8	919	234	38	1078
Woodworth, Gilman P., Colfax, Iowa. Carpet-stretcher	362,863	May 10	1126	303	39	689
Woodworth, Silas F., Clipper Gap, Cal. Veneer box	362,136	May 3	114	35	39	495
Woody, Horace G. (See Sollenberger and Woody.)						
Wooldredge, William D. (See Stevens, Amos, assignor.)						
Wooldredge, William D. (See Stevens, Arthur L., assignor.)						
Wooldridge, Charles H., and J. M. Hendron, Shipman, Ill. Jug-handle	371,018	Oct. 4	417	104	41	83
Wooldridge, Robert A., and G. W. Frasure, East Lynne, Mo. Door-threshold and weather- strip	362,693	May 10	893	243	39	647
Woolfolk, Alexander M., Chicago, Ill. Excavating device	360,548	Apr. 5	227	57, 58	39	44
Woolgar, William, Bay City, Mich. Rod or bolt cutter	362,137	May 3	115	35	39	495
Woolley, Amos G., assignor of two-thirds to R., Jr., and E. M. Woolley, Cincinnati, Ohio. Electric alarm-clock	369,672	Sept. 6	500	{ 137 138 }	{ 40 }	1130
Woolley, Edgar M., <i>et al.</i> (See Woolley, Amos G., assignor.)						
Woolley, Leonidas G., Grand Rapids, Mich. Electric generator	369,219	Aug. 30	2686	713	40	1000
Woolley, Richard, Jr., <i>et al.</i> (See Woolley, Amos G., assignor.)						
Woolley, William J., Anderson, Ind. Tile-machine	361,037	Apr. 12	928	235	39	176
Woolley, William J., Anderson, Ind. Brick-machine	361,038	Apr. 12	931	{ 235 236 }	{ 39 }	177
Woolston, Abraham N., State Centre, Iowa. Bridle-blinder	373,762	Nov. 22	2234	598	41	917
Wooster, George H., West New Brighton, N. Y. Composition of matter for plastering walls, &c	367,173	July 26	1943	.....	40	391
Wooster, Joel T. (See Stahl and Wooster.)						
Wooster, Mary L., <i>et al.</i> (See Dickenson, Charles, assignor.)						
Wooten, John E., Reading, and J. S. Bell, Allegheny, assignors to Wharton Railroad Switch Company, Philadelphia, Pa. Locomotive-boiler	361,661	Apr. 19	1818	471	39	356
Wootton, William S., Scottsburg, assignor to J. M. Carrington, South Boston, Va. Dry- house	375,306	Dec. 20	1633	428	41	1380
Wootton, William S., Scottsburg, assignor to J. M. Carrington, South Boston, Va. Road- engine	375,307	Dec	1635	{ 428 429 }	{ 41 }	1380
Worcester Corset Company. (See Hill, Lucien, assignor.)						
Worcester Electric Light Company. (See Fairbanks and Coughlin, assignors.)						
Worcester, Henry, Malden, assignor to A. G. Webster, Boston, Mass. Leather-splitting machine	362,694	May 10	894	243	39	647
Worden, Elmer J., assignor of one-half to E. Perry, Charlotte, Mich. Belt-reel	360,399	Mar. 29	2985	757	38	1487
Worden, William A., Beatrice, Nebr. Cultivator	356,674	Jan. 25	1968	517	38	399
Works, Hattie S., Brooklyn, N. Y. Frame for signs	373,384	Nov. 15	1676	445	41	798
Worley, Howard A., <i>et al.</i> (See Cook, Willard L., assignor.)						
Worley, Joshua J., J. K. Robinson, and J. Hillis, Aurora, Ark. Rake	358,137	Feb. 22	2031	534	38	821
Worley, Sylvester T., Keokuk, Iowa. Fifth-wheel	356,701	Jan. 25	2004	525	38	405
Worley, Thomas W. M., New York, N. Y. Carpet-fastener	362,476	May 3	570	158	39	584
Worley, William J. (See King and Worley.)						
Wormald, Joseph and J., Jr., Missoula, Mont. Ter. Lock for bolts of pistons	365,218	June 21	1466	387	39	1378
Wormer, Andrew E., Holland, N. Y. Device to open and close railway-switches automati- cally from a moving train	372,053	Oct. 25	1900	490	41	397
Wormly, David. (See Courtleyow, Jacob, assignor.)						
Worms, Eugène, and J. Balé, Paris, France. Process of and apparatus for tanning by electricity	361,249	Apr. 12	1243	317	39	236
Worrall, Thomas D., Washington, D. C. Type-writing machine	363,932	May 31	2649	{ 687 688 }	{ 39 }	1001
Worrall, Thomas D., Washington, D. C. Type-writing machine	366,750	July 19	1381	370	40	278
Worrall, Thomas D., Lynn, Mass. Printing in colors	366,751	July 19	1383	.....	40	278
Worrell, Stanley E., Hannibal, Mo. Machine for drying offal and other wet products	363,933	May 31	2651	{ 688 689 }	{ 39 }	1002
Worrest, Alfred H., Lancaster, Pa. Fertilizer feeder attachment for grain-drills	355,671	Jan. 4	509	135	38	100
Worsdell, Thomas W., Wanstead, county of Essex, England. Compound steam-engine ..	360,834	Apr. 5	619	164	39	116
Worswick, William W., Cleveland, Ohio. Journal-box	362,864	May 10	1127	303	39	689
Worth, John S., Coatesville, Pa. Crane	375,665	Dec. 27	2131	554	41	1482
Worth, William H., Petaluma, Cal. Grape-stemmer	358,241	Feb. 22	2170	572	38	848
Worthage, Adam, St. Louis, Mo. Composition for application to the surface of printers' inking-rollers	358,797	Mar. 1	551	.....	38	1006
Worthington, Charles C., Irvington, N. Y. Water-tank	373,546	Nov. 22	1935	513	41	857
Worthington, James K., Kirkwood, Mo. Harvester	360,835	Apr. 5	620	165	39	116
Worthington, Richard, New York, N. Y. Manufacture of illustrated books	373,791	Nov. 22	2279	{ 610 611 }	{ 41 }	924
Wortman, Theodore, Chamberlain, Dak. Ter. Chain-pump	362,695	May 10	895	244	39	647
Woulf, Charles. (See Poor and Woulf.)						
Wragg, George, and J. Stroh, Sharpsburg, Pa. Potato-digging machine	372,006	Oct. 25	1818	471	41	383
Wrba, Joseph P., Praha, Nebr. Potato-planting machine	373,916	Nov. 29	2461	661	41	967
Wren, William C., Brooklyn, N. Y., assignor to H. E. Oliver, Chicago, Ill. Distilling am- monia and producing refrigeration	364,198	May 31	3032	788	39	1076
Wren, William C., Brooklyn, N. Y., assignor to T. W. Scofield, Stamford, Conn. Hand-truck ..	374,161	Nov. 29	2807	753	41	1034
Wrenn, McDonald L. (See Whitehurst, Robert W., assignor.)						
Wrenshall, Charles C., St. Paul, Minn. Railway water-tank	363,934	May 31	2654	689	39	1002
Wrenshall, Charles C., St. Paul, Minn. Fastening for car-doors	363,935	May 31	2655	{ 689 690 }	{ 39 }	1002
Wright, Allen J., Cleveland, Ohio. Alarm-indicator	362,138	May 3	116	35	39	496
Wright, Atwill P., Syracuse, N. Y. Fire-escape ladder	369,148	Aug. 30	2595	{ 689 690 }	{ 40 }	982
Wright, Benjamin F., <i>et al.</i> (See Eastman, Fred B., assignor.)						
Wright, Benjamin J. (See Horton and Wright.)						
Wright, Charles, Cincinnati, Ohio. Belt-holder	372,999	Nov. 8	1080	288	41	678
Wright, Charles A., Philadelphia, Pa. Card-gilding machine	363,936	May 31	2656	690	39	1003
Wright, Charles A., Philadelphia, Pa. Production of sheets of gold-leaf	369,762	Sept. 13	613	165	40	1159
Wright, Cornelius W., Democracy, Ohio. Drag-saw machine	373,260	Nov. 15	1481	391	41	761
Wright, Edward, Worcester, Mass. Spinning-mule	370,840	Oct. 4	123	{ 33 34 35 }	{ 41 }	25

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Wright, Ellery C., Campello, Mass. Last.....	355,750	Jan. 11	631	165	38	133
Wright, Frederick E., Boston, Mass. Tripod-joint.....	357,299	Feb. 8	811	210	38	580
Wright, Frederick K., assignor to Steam Gauge and Lantern Company, Rochester, N. Y. Positive shuttle-motion for looms.....	373,423	Nov. 15	1734	457	41	808
Wright, George D. (See Gray and Wright.)						
Wright, George H., San Francisco, Cal. Railway-signal.....	360,077	Mar. 29	2502	636	38	1400
Wright, George M., assignor of one-half to S. H. Morris, Shelbyville, Ind. Combined mitten and sleeve for garments.....	361,250	Apr. 12	1245	318	39	237
Wright, George W., and A. H. Burns, Enterprise, Kans. Bag-holder.....	363,780	May 24	2427	630	39	956
Wright, George W., and R. Roach, Leavenworth, Ind. Single-track railway.....	357,649	Feb. 15	1328	349	38	687
Wright, Granville W., assignor to Sargent & Company, New Haven, Conn. Transom-lifter.....	369,626	Sept. 6	437	122	40	1118
Wright, Hugh, Newark, N. J. Ingot-mold.....	367,571	Aug. 2	317	91	40	512
Wright, Isaac N., Sardinia, Ind. Machine for upsetting tires.....	357,947	Feb. 15	1745	{ 455 } { 456 }	{ 38 } { 41 }	764 1308
Wright, Jacob, Mitchell, Dak. Ter. Hinge.....	375,038	Dec. 20	1269	331	41	1308
Wright, Jacob, Mitchell, Dak. Ter. Hinge.....	375,039	Dec. 20	1270	331	41	1308
Wright, Jacob D., assignor to Wright Machine Company, Worcester, Mass. Rapidly-adjustable nut for calipers and dividers.....	355,430	Jan. 4	178	47, 48	38	36
Wright, James, Weedsport, N. Y. Line-guide for fishing-rods.....	358,420	Feb. 22	2410	641	38	894
Wright, James Y., et al. (See Vanover, Joseph M., assignor.)						
Wright, John, Hoosick Falls, N. Y. Oar.....	359,374	Mar. 15	1359	351	38	1169
Wright, John, Hoosick Falls, N. Y. Whisk-broom holder.....	372,835	Nov. 8	841	224	41	634
Wright, Judson E. (See Moore, William B., assignor.)						
Wright, Lorin, Dayton, Ohio. Baling-press.....	369,149	Aug. 30	2597	690	40	983
Wright Machine Company. (See Wright, Jacob D., assignor.)						
Wright, Marcus C. (See Hand, Wright, and Pocock.)						
Wright, Nancy J. (See Horton and Wright, assignors.)						
Wright, Newton K., Pewamo, Mich. Ice-tongs.....	361,108	Apr. 12	1024	259	39	196
Wright, Orrin D. (See Golding and Wright.)						
Wright, Orrin D., assignor to Oneida Community, (limited,) Community, N. Y. Device for securing animal-traps.....	364,390	June 7	249	70	39	1136
Wright, Pamela W. (See Robertson, Robert S., assignor.)						
Wright, Samuel W., Waverly, Tex. Combined cultivator and corn-planter.....	365,893	July 5	189	48, 49	40	37
Wright, Thomas, assignor of one-fourth to D. McCallum, Camden, N. J. Street-sweeper.....	371,722	Oct. 18	1404	{ 363 } { 364 }	{ 41 }	294
Wright, Thomas, assignor of one-half to D. McCallum, Camden, N. J. Street-sweeping vehicle.....	371,909	Oct. 18	1680	434	41	348
Wright, Tom A., and S. Marsden, Leeds, county of York, England. Key-board attachment for pianos.....	356,236	Jan. 18	1347	355	38	273
Wright, Walter B., Chicago, Ill., assignor to Williams & Wright, Troy, N. Y. Injector-burner.....	368,266	Aug. 16	1357	358	40	724
Wright, Walter B., Chicago, Ill., assignor to Williams & Wright, Troy, N. Y. Hydrocarbon-furnace.....	370,841	Oct. 4	134	35, 36	41	27
Wright, Walter B., Chicago, Ill., assignor to Williams & Wright, Troy, N. Y. Injector for hydrocarbon-furnaces.....	371,157	Oct. 4	602	155	41	119
Wright, Walter B., Chicago, Ill., assignor to Williams & Wright, Troy, N. Y. Injector-burner.....	371,158	Oct. 4	603	155	41	119
Wright, William, Newburg, N. Y. Valve-gear.....	358,913	Mar. 8	743	184	38	1045
Wright, William, Willink, N. Y. Car-coupling.....	365,035	June 14	1200	316	39	1317
Wright, William, Jr., New York, N. Y. Collapsible carton.....	371,159	Oct. 4	605	155	41	120
Wright, William A., assignor of one-half to J. B. Lapsley, Cave Spring, Ga., and J. W. Lapsley, Calera, Ala. Extension leveling-rod.....	360,836	Apr. 5	622	165	39	117
Wright, William A., assignor of one-half to J. B. Lapsley, Cave Spring, Ga., and J. W. Lapsley, Calera, Ala. Leveling-instrument.....	360,837	Apr. 5	623	165	39	117
Wright, William H., assignor to D. B. Breed and J. H. Kellogg, Freeport, Ill. Printer's quoin.....	360,501	Apr. 5	151	38	39	29
Wrighton, William E., assignor of two-thirds to R. M. Popham and D. P. Dieterich, Philadelphia, Pa. Heel plate or guard.....	368,120	Aug. 9	1128	300	40	673
Wueling, Fred, assignor of one-half to J. H. Traynor, Detroit, Mich. Paster attachment for folding-machines.....	373,547	Nov. 22	1937	513	41	857
Wueling, Fredrick, assignor of one-half to W. J. H. Traynor, Detroit, Mich. Printing-machine.....	373,119	Nov. 15	1264	335	41	722
Wuensch, August, New York, N. Y. Box.....	361,662	Apr. 19	1820	{ 471 } { 472 }	{ 39 }	356
Wuerfel, Augusta J., Milwaukee, Wis. Tailor's rule.....	364,620	June 7	576	155	39	1196
Wuest, Frederick, assignor to Woodrough & McParlin, Cincinnati, Ohio. Vegetable-cutter.....	369,673	Sept. 6	502	138	40	1131
Wuest, Henry. (See Hoepfner and Wuest.)						
Wuest, William. (See Kroness and Wuest.)						
Wulff, Charles R. E., Paris, France. Means and apparatus for propelling and guiding balloons.....	363,037	May 17	1383	{ 365 } { 366 }	{ 39 }	745
Wünsch, Henry, et al. (See Hambujer, Ephraim, assignor.)						
Würdemann, William, Washington, D. C. Asparagus-buncher.....	370,842	Oct. 4	137	36, 37	41	27
Wurlitzer, Rudolph, Cincinnati, Ohio. Drum.....	373,873	Nov. 29	2399	644	41	955
Wurster, Frederick W., Brooklyn, N. Y. Axle-lubricator.....	356,519	Jan. 25	1749	456	38	356
Wüst, Julius, Prague, Austria-Hungary. Detachable sole for boots or shoes.....	375,718	Dec. 27	2209	575	41	1497
Wüster, Johann H., Ybbs, Austria-Hungary. Apparatus for extinguishing, lighting, and regulating gas-lamps.....	363,781	May 24	2428	{ 630 } { 631 }	{ 39 }	956
Wustum, Charles A., et al. (See Laforge, George M., assignor.)						
Wuterich, William F., assignor of one-half to J. H. Bario, Meriden, Conn. Velocipede.....	355,672	Jan. 4	511	135	38	100
Wyatt, John H., Viney Grove, Ark. Clod-crusher and harrow.....	374,569	Dec. 6	580	151	41	1159
Wyatt, John R., Princeton, Ky. Cultivator.....	375,719	Dec. 27	2210	575	41	1497
Wybauw, Joseph, Brussels, Belgium. Gas-meter registering separately the consumption by night and by day.....	363,937	May 31	2658	690	39	1003
Wyckoff, Ambrose B. (See Groves and Wyckoff.)						
Wyckoff, William M. (See Fuller and Wyckoff.)						
Wygant, John C., Outville, Ohio. Fence.....	370,513	Sept. 27	1742	462	40	1384
Wygant, John C., assignor of one-half to J. D. Stewart, Outville, Ohio. Post-hole digger.....	370,514	Sept. 27	1743	463	40	1384
Wyker, Benjamin F., and A. D. Storm, assignors of one-third to G. E. Seiple, Easton, Pa. Machine for drawing wire.....	357,164	Feb. 1	625	161	38	536
Wylie, S. Brown. (See Howe, Joshua O., assignor.)						
Wylie, Samuel B. (See Wylie, Theophilus A. and S. B.)						
Wylie, Theophilus A. and S. B., Bloomington, Ind. Instrument for describing circles.....	371,160	Oct. 4	606	155	41	120
Wylly, William P., Patterson, Ga. Car-axle box.....	363,782	May 24	2433	631	39	957

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Wyman, Frank W., <i>et al.</i> (See Allen, Judson, assignor.)						
Wyman, Horace. (See Crompton and Wyman.)						
Wyman, Horace, Worcester, Mass. Pattern device for shuttle-box-operating mechanism for looms	364,696	June 14	681	182	39	1225
Wyman, Horace, Worcester, Mass. Loom	364,697	June 14	684	{ 182 183 }	{ 39 }	1225
Wyman, Horace, assignor to M. C. Crompton, administratrix of G. Crompton, deceased, Worcester, Mass. Warp-beam	368,121	Aug. 9	1129	300	40	673
Wyman, Horace, assignor to M. C. Crompton, administratrix of G. Crompton, deceased, Worcester, Mass. Warp-beam for looms	368,122	Aug. 9	1129	300	40	674
Wyman, James, Jr. (See Wallace and Wyman.)						
Wyman, John C. (See Brooks, Stephen H., assignor.)						
Wyman, John E. (See Cole and Wyman.)						
Wymond, William S., assignor to Chess & Wymond Company, Louisville, Ky. Barrel-firing apparatus	374,570	Dec. 6	582	151	41	1159
Wynn, Leander J. (See Shiverick and Wynn.)						
Wynne, Frank, Westminster, county of Middlesex, England. Method of and apparatus for forming armature-cores	363,106	May 17	1478	391	39	763
Wynne, Thomas L., <i>et al.</i> (See Thomas, Michael C., assignor.)						
Xander, Edgar G., Mansfield, Ohio. Garbage-receptacle	357,258	Feb. 8	757	197	38	570
Xander, Edgar G., Mansfield, Ohio. Disinfectant mixture	357,259	Feb. 8	757	197	38	570
Yale, Charles O., Rome, N. Y. Casting-machine	373,629	Nov. 22	2054	547	41	880
Yale, Hiram M., Albion, N. Y. Ball-and-socket joint	357,749	Feb. 15	1482	388	38	715
Yale, Richard H., New Orleans, La. Apparatus for burning bagasse or other wet material	363,270	May 17	1692	444	39	806
Yale & Towne Manufacturing Company. (See Hornaday, Thomas B., assignor.)						
Yale & Towne Manufacturing Company. (See Stockwell, Emory, assignor.)						
Yale & Towne Manufacturing Company. (See Stockwell, Emory and H. C., assignors.)						
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)						
Yañez, Adolfo S., Havana, Cuba. Lamp and wick therefor	368,698	Aug. 23	1967	521	40	851
Yañez, Adolfo S., Havana, Cuba. Lamp	368,800	Aug. 23	2107	558	40	877
Yans, Louis F., Sharpsburg, Pa. Axle-lubricator	370,030	Sept. 13	1033	272	40	1236
Yarborough, William O., Oden, Tex. Corn-planter	367,491	Aug. 2	201	56	40	490
Yarlot, Aaron J., Ney, assignor of one-half to J. H. Doll, Washington Township, Defiance County, Ohio. Drill for well-boring	360,838	Apr. 5	625	165	39	117
Yarlot, Aaron J., assignor of one-half to M. H. Yarlot, Ney, Ohio. Fence	373,792	Nov. 22	2280	611	41	924
Yarlot, Mary H. (See Yarlot, Aaron J., assignor.)						
Yarrington, Charles H., assignor to Cheshire Watch Company, Cheshire, Conn. Manufacture of watch-crowns	356,862	Feb. 1	167	45	38	453
Yarrington, Charles H., Cheshire, assignor to F. Beecher and E. Wines, New Haven, Conn. Head-rest	360,502	Apr. 5	152	38	39	29
Yarwood, Matthew C. (See Carr and Yarwood.)						
Yarwood, Matthew C., Fall River, Mass. Drawers	362,565	May 10	696	194	39	611
Yaryan, Harvey B., assignor of two-thirds to J. H. Watson and C. N. Vancleave, Crawfordville, Ind. Reach-coupling	370,916	Oct. 4	270	66	41	53
Yates, Alvah P., Rockford, Ill. Vehicle-runner	359,656	Mar. 22	1818	462	38	1269
Yates, Benjamin F. (See West, Ella E. and J. S., assignors.)						
Yates, John W., Bourbon, Ind. Damper	365,219	June 21	1467	387	39	1378
Yates, John W., Bourbon, Ind., assignor of one-half to W. C. Yates, Chicago, Ill. Heating-drum	374,284	Dec. 6	154	41	41	1077
Yates, Joseph, Minneapolis, Minn. Grain-scourer	363,938	May 31	2659	690	39	1003
Yates, Joseph, Minneapolis, Minn. Machine for hulling rice	366,910	July 19	1585	424	40	316
Yates, Theodore, Milwaukee, Wis. Breech-loading ordnance	360,942	Apr. 12	781	203	39	151
Yates, W. C. (See Yates, John W., assignor.)						
Yawman, Phillip H., <i>et al.</i> (See Robbin, Fred, assignor.)						
Yeakle, James B., and A. Steuart, Baltimore, Md. Electric burglar-alarm	370,439	Sept. 27	1628	{ 433 434 }	{ 40 }	1363
Yeargin, William L. (See Bates, Andrew J., assignor.)						
Yeates, Stephen M. (See Vereker and Yeates.)						
Yeatman, Alfred O., assignor of one-half to C. E. Reed, Wellington, Kans. Car-coupling	361,740	Apr. 26	1932	501	39	384
Yeiser, Edmund, Newmanstown, assignor of part to J. S. Garrett, Philadelphia, E. S. Garrett, Sheridan, and M. C. Zimmerman, Newmanstown, Pa. Door-lock	373,214	Nov. 15	1421	{ 375 376 }	{ 41 }	751
Yeiser, Henry C., Cincinnati, and A. Dom, Mount Healthy, assignors to Globe Files Company, Cincinnati, Ohio. Temporary binder	368,439	Aug. 16	1595	426	40	772
Yeoman, Edward, Chicago, Ill. Sofa-bed	373,509	Nov. 22	1885	499	41	848
Yeoman, William P., Waukegan, Ill. Revolving window-curtain exhibitor	356,219	Jan. 18	1322	349	38	268
Yeomans, Manning R., Newark, N. J. Water-proof garment	365,036	June 14	1201	317	39	1318
Yeomans, Manning R., assignor of one-half to F. H. Wismer, Newark, N. J. Car-coupling	358,421	Feb. 22	2411	641	38	895
Yeomans, William H. (See Urich, Charles, assignor.)						
Yerington, Reubin, Middleville, Mich. Harrow	370,670	Sept. 27	1977	524	40	1428
Yinger, John S., Manchester, Pa. Pinch-bar	369,150	Aug. 30	2598	690	40	983
Yoder, Charles W., and S. L. Hamilton, Monmouth, Ill. Stove-pipe drum	360,549	Apr. 5	233	58	39	45
Yoe, Henry. (See Hart and Yoe.)						
Yoe, Henry. (See McCarty and Yoe.)						
Yoe, Philip, Dayton, Ohio. Cash-register	361,802	Apr. 26	2026	526	39	400
Yohnka, William J. F., Exline, Ill. Fodder-stacker	363,877	May 31	2569	667	39	988
Yokom, Wilford W., assignor of one-half to G. B. Hamm, New Hartford, Iowa. Feed-cooking device	368,866	Aug. 23	2197	584	40	896
Yont, Charles A., near Talmage, Nebr. Cultivator	361,476	Apr. 19	1551	402	39	305
York, Frank C., Salina, Kans. Line-protector for vehicles	363,715	May 24	2343	608	39	940
Yost, Charles W., Middletown, Pa. Railway-tie	370,226	Sept. 20	1319	351	40	1298
Yost, John A. (See Graham and Yost.)						
Yost, Joseph L., Wallingford, Conn., assignor to Springfield Bicycle Manufacturing Company, Boston, Mass. Axle-lubricator	362,865	May 10	1129	304	39	690
Yost, Joseph L., Chicopee, assignor to Springfield Bicycle Manufacturing Company, Boston, Mass. Bicycle. (Reissue)	10,864	Sept. 6	505	139	40	1132
Yost, Joseph L., and J. B. McCune, Worcester, Mass., assignors to Springfield Bicycle Manufacturing Company, of Massachusetts. Bicycle	366,287	July 12	734	199	40	146
Yost, Joseph L., and J. B. McCune, Worcester, Mass., assignors to Springfield Bicycle Manufacturing Company, of Massachusetts. Clutch mechanism for bicycles	366,288	July 12	735	200	40	146
Yost, Joseph L., and J. B. McCune, Worcester, Mass., assignors to Springfield Bicycle Manufacturing Company, of Massachusetts. Bicycle	367,883	Aug. 9	795	215	40	611
Yost, William V., West Decatur, Pa. Roller-skate	363,716	May 24	2344	608	39	940
Youart, John R., Tippecanoe City, Ohio. Steam-boiler furnace	357,442	Feb. 8	999	264	38	616

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Youmans, William W., Caldwell, Kans. Horse-collar.....	361,342	Apr. 19	1368	352	39	270
Younce, David S., J. C. Shellabarger, and W. H. Nicholas, West Milton, Ohio. Machine for stringing tobacco upon laths.....	364,621	June 7	577	155	39	1196
Young, Alexander, Honolulu, Hawaii. Feeding bagasse to roller-mills.....	362,810	May 10	1056	{ 287 288 }	{ 39 }	677
Young, Calvin. (See Case and Young.)						
Young, Calvin, Auburn, N. Y. Grain-binding machine.....	358,798	Mar. 1	551	{ 136 137 138 }	{ 38 }	1006
Young, Charles E., <i>et al.</i> (See Devens, Elijah J., assignor.)						
Young, Charles M., assignor of one-half to Harmon, Gibbs & Co., Corry, Pa. Burner for natural gas.....	367,945	Aug. 9	889	241	40	628
Young, Charles P., <i>et al.</i> (See Erwin, L. Clayton, assignor.)						
Young & Co., Robt. R. (See Ringer, Joseph G., assignor.)						
Young, David, Stockton, Cal. Link belting.....	375,040	Dec. 20	1271	332	41	1308
Young, Edwin, <i>et al.</i> (See Archer, Samuel B., assignor.)						
Young, Gilbert, assignor to Cabot Brothers, Worthington, Pa. Automatic cut-off for gas-pressure regulators.....	366,708	July 19	1321	355	40	267
Young, Harold E., <i>et al.</i> (See Travis, Jerome, assignor.)						
Young, Henry M., Minneapolis, Minn. Vapor-stove.....	373,573	Nov. 22	1972	524	41	863
Young, Henry M., Minneapolis, Minn. Portable radiator.....	373,574	Nov. 22	1974	{ 524 525 }	{ 41 }	863
Young, Henry M., Minneapolis, Minn. Apparatus for heating cars and similar structures.	373,575	Nov. 22	1975	525	41	864
Young, Henry M., Minneapolis, Minn. Water-heater or steam-generator.....	373,576	Nov. 22	1977	525	41	864
Young, Henry M., Minneapolis, Minn., assignor to W. F. Steele, Steele, Dak. Ter. Steam-generating and heating apparatus.....	358,824	Mar. 1	590	{ 146 147 462 463 }	{ 38 }	1013
Young, Horace A., Worcester, Mass. Wire-rod-reeling machine.....	365,423	June 28	1779	{ 462 463 }	{ 39 }	1448
Young, Horace A., Worcester, Mass. Wire-rod-reeling machine.....	369,307	Aug. 30	2810	749	40	1025
Young, Horace G., <i>et al.</i> (See Archer, Samuel B., assignor.)						
Young, Hugh, New York, N. Y. Sawing stone.....	364,458	June 7	360	99	39	1157
Young, Hugh, New York, N. Y. Sawing stone.....	364,459	June 7	362	99	39	1157
Young, James D., assignor to himself and R. S. Tinnin, Elgin, Tex. Car-coupling.....	355,903	Jan. 11	868	{ 227 228 }	{ 38 }	176
Young, James H., Troy, N. Y. Making apparel-collars.....	371,723	Oct. 18	1407	364	41	295
Young, James W., Nashville, Tenn. Spring-bed.....	364,076	May 31	2852	740	39	1042
Young, John, Newark, N. J. Apparatus for stretching hides.....	374,228	Dec. 6	82	21	41	1063
Young, John E., America City, Kans. Thimble-skein.....	367,773	Aug. 2	636	170	40	570
Young, John F., Brooklyn, assignor to F. Panse, New York, N. Y. Plating-machine....	370,843	Oct. 4	138	37, 38	41	28
Young, John M., Burlington, Pa. Wagon-jack.....	363,038	May 17	1385	366	39	745
Young, Joseph M., Johnstown, Pa. Nail-machine.....	358,100	Feb. 22	1965	519	38	810
Young, Joshua, and N. Green, Waterford, Ontario, Canada. Machine for cutting string-beans.....	363,785	May 24	2437	632	39	957
Young, McClintock, Frederick, Md. Compound steam-engine.....	369,674	Sept. 6	503	138	40	1131
Young, Robert A., Wayne, Iowa. Seed or corn planter.....	366,752	July 19	1383	{ 370 371 }	{ 40 }	278
Young, Robert J., Philadelphia, Pa. Evaporating and heating apparatus for tobacco.....	370,365	Sept. 20	1515	406	40	1336
Young, Samuel A., Washington, D. C. Car-coupling.....	374,030	Nov. 29	2617	702	41	998
Young, Tapley W., Washington, D. C. Dynamite shell.....	365,456	June 28	1830	476	39	1457
Young, Thomas, Bradford, Pa. Gib and key.....	373,957	Nov. 29	2517	677	41	977
Young, Thomas C., St. Charles, Iowa. Corn-planter.....	357,509	Feb. 8	1097	289	33	635
Young, Wesley, and C. M. Wetzel, Dayton, Ohio; said Wetzel assignor to said Young. Implement for driving and clinching staples.....	362,346	May 3	382	106	39	548
Young, Wilfred, East Homer, N. Y. Potato-digger.....	357,260	Feb. 8	758	197	38	570
Young, Will F., New York, N. Y. Grip for button-lathes.....	372,443	Nov. 1	237	66	41	515
Young, William, Peebles, county of Peebles, and G. T. Beilby, Midcalder, county of Midlothian, Scotland. Process of and apparatus for obtaining ammonia from coal.....	356,610	Jan. 25	1876	{ 493 494 495 }	{ 38 }	381
Young, William H., New York, N. Y. Trousers-stretcher.....	373,120	Nov. 15	1266	335	41	723
Youngblood, William. (See Crandall, Jesse A., assignor.)						
Youngman, John P., Hazleton, Pa. Portable range.....	363,786	May 24	2438	632	39	958
Youns, William H., Waverly, Iowa. Stanchion.....	356,086	Jan. 11	1134	300	38	227
Yous, John W., Mound City, Mo. Vehicle-seat.....	367,572	Aug. 2	318	91	40	512
Yous, John W., assignor to himself and J. T. Ballard, Mound City, Mo. Thill-coupling...	370,587	Sept. 27	1859	493	40	1405
Youtsey, George, Covington, and H. Higgin, Newport, Ky. Vehicle-boot.....	375,113	Dec. 20	1379	358	41	1329
Youtz, James F. (See Root and Youtz.)						
Yunck, Frederick. (See Lingle, George W., assignor.)						
Zaccane, Gabriele, Chicago, Ill. Adjustable table.....	359,340	Mar. 15	1310	340	38	1159
Zadek & Norton Piano-Forte and Organ Company. (See Norton, Edward Q., assignor.)						
Zallud, Karl, New York, N. Y. Quilting-machine.....	373,510	Nov. 22	1886	500	41	848
Zarbock, Ernst F. W., Cleveland, Ohio. Bolt.....	374,229	Dec. 6	83	21	41	1063
Zastrow, August, La Harpe, Ill. Grain-separator.....	358,825	Mar. 1	595	147	38	1014
Zattan, Charles. (See Nickel and Zattan.)						
Zeckwer, Richard, Philadelphia, Pa. Metronome.....	360,550	Apr. 5	234	58	39	45
Zedler, Fridrick, Luling, Tex. Car-coupling.....	359,047	Mar. 8	920	234	38	1078
Zeh, Charles M. (See Gomer, Charles, assignor.)						
Zehren, Auguste. (See Zehren, Jean and A.)						
Zehren, Jean and A., Paris, France. Valve.....	373,000	Nov. 8	1081	289	41	678
Zeidler, William C., Toronto, Ontario, Canada, assignor to A. Newell & Co., Chicago, Ill. Applying celluloid to organ key-boards.....	373,001	Nov. 8	1082	289	41	679
Zeigler, George W., Washington, D. C. Trestling or scaffolding.....	362,914	May 10	1202	{ 321 322 }	{ 39 }	704
Zeigler, George W., Washington, D. C. Table.....	362,915	May 10	1204	322	39	704
Zeigler, George W., Washington, D. C. Table.....	362,916	May 10	1205	322	39	704
Zeigler, George W., Washington, D. C. Trestle.....	374,107	Nov. 29	2734	734	41	1021
Zeiner, Joseph, Munich, Germany. Primary electric pendulum clock.....	363,498	May 24	2025	528	39	879
Zeitinger, Christian J., Gads Hill, Mo. Handle-fastening.....	364,330	June 7	166	46	39	1120
Zell, Harry G. (See Scherber, John F., assignor.)						
Zeller, John J. A., <i>et al.</i> (See Phelps, Lyman E., assignor.)						
Zeller, Melancthon E., Bluffton, Ohio. Harness-saddle.....	360,191	Mar. 29	2689	679	38	1434
Zeller, Melancthon E., Bluffton, Ohio. Harness-buckle.....	360,192	Mar. 29	2691	680	38	1434
Zeller, Melancthon E., Bluffton, Ohio. Bridle.....	360,193	Mar. 29	2692	680	38	1435
Zeller, Melancthon E., assignor of one-half to A. J. St. John, Bluffton, Ohio. Hame-strap buckle.....	370,031	Sept. 13	1034	272	40	1236

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Zeller, Thomas B., Kossuth, assignor of one-half to F. S. Bowman, Tylersburg, Pa. Combination-lock.....	366,806	July 19	1449	288	40	290
Zeller, Thomas B., Kossuth, assignor of one-fourth to W. Nagle, Eagle Rock, Pa. Combination-lock.....	368,640	Aug. 23	1873	499	40	833
Zeller, Thomas B., Kossuth, assignor of one-fourth to W. Nagle, Eagle Rock, Pa. Combination-lock.....	371,656	Oct. 18	1296	336	41	271
Zeller, Thomas B., assignor of one-half to F. P. Saylor, Franklin, Pa. Animal-trap.....	357,650	Feb. 15	1329	349	38	687
Zelly, John, assignor of one-half to F. Fischer, Cincinnati, Ohio. Clock.....	372,780	Nov. 8	746	202	41	619
Zeltner, John E. (See Hudson, William H., assignor.)						
Zenger, Sebastian, Milwaukee, Wis. Adjustable table.....	370,227	Sept. 20	1321	352	40	1298
Zerbe, James S., Hartwell, Ohio, assignor to D. M. Monroe, Baltimore, Md. Hand fire-extinguisher.....	363,939	May 31	2660	691	39	1004
Zerbe, Jerome B., <i>et al.</i> (See Ewing, William H., assignor.)						
Zerrenner, Adolph, assignor to C. H. Grube, New York, N. Y. Manure-scraper for plows.....	373,630	Nov. 22	2056	547	41	880
Zervas, Josef, New York, N. Y. Surgical belt.....	368,699	Aug. 23	1969	522	40	852
Zickwolff, Eduard, Saarbrücken, assignor, by mesne assignments, to Gebrüder Mügel, St. Johann-on-the-Saar, Germany. Heat-regulator.....	365,220	June 21	1468	387	39	1379
Ziegler, Alfred M., Boston, Mass. Garment-supporting attachment.....	367,492	Aug. 2	204	57	40	491
Ziegler, Joseph M., Dayton, Ohio. Device for suspending lamps.....	367,493	Aug. 2	205	57	40	491
Ziegler, Oscar J., assignor to Stover Manufacturing Company, Freeport, Ill. Wire-barb- ing machine.....	359,485	Mar. 15	1532	{ 392 393 }	{ 38 38 }	1201
Zies, Charles, Baltimore, Md. Stirrer for mash-tubs.....	364,622	June 7	579	155	39	1196
Ziesche, Edward. (See Drinkhouse and Ziesche.)						
Ziesche, Edward, San Francisco, Cal. Cover for tobacco-boxes.....	368,267	Aug. 16	1358	358	40	725
Zietzke, Wilhelm A., and H. C. Summers, Bozeman, Mon. Ter. Churn.....	364,744	June 14	757	201	39	1239
Zilker, Anthony. (See Kehoe and Zilker.)						
Zilles, Michael, assignor of one-half to A. Kramer, Passaic, N. J. Diaphragm-valve.....	365,767	June 28	2300	598	39	1548
Zimmerman, James, Pamela Four Corners, N. Y. Harrow.....	360,640	Apr. 5	353	88	39	67
Zimmermann, John, Philadelphia, Pa. Shuttle-box operating mechanism for looms.....	356,267	Jan. 18	1380	{ 365 366 }	{ 38 38 }	280
Zimmermann, John, assignor to W. P. Uhlinger, Philadelphia, Pa. Jacquard mechanism for looms.....	368,903	Aug. 23	2249	598	40	906
Zimmerling, August F., assignor of one-half to J. A. and P. E. Dutcher, Milwaukee, Wis. Oil-stove.....	369,420	Sept. 6	154	44	40	1061
Zimmerling, August F., assignor of one-half to J. A. and P. E. Dutcher, Milwaukee, Wis. Gas-burner.....	369,421	Sept. 6	154	45	40	1061
Zimmerling, August F., assignor of one-half to J. A. and P. E. Dutcher, Milwaukee, Wis. Oil-stove.....	369,422	Sept. 6	155	45	40	1061
Zimmerling, Charles, Philadelphia, Pa. Ironing-tablet.....	373,168	Nov. 15	1343	356	41	735
Zimmerman, Arnold W., Fernwood, assignor of one-half to J. S. Toppan, Chicago, Ill. Gas- fixture.....	363,787	May 24	2439	632	39	958
Zimmerman, George F. S. and H., Frederick, Md. Shutter-worker.....	371,242	Oct. 11	719	185	41	150
Zimmerman, Henry. (See Zimmerman, George F. S. and H.)						
Zimmerman, Milton C., <i>et al.</i> (See Yeiser, Edmund, assignor.)						
Zimmerman, William. (See Kelly and Zimmerman.)						
Zimmerman, William, Chicago, Ill. Letter-copying apparatus.....	358,954	Mar. 8	795	201	38	1056
Zimmerman, William P., Freeport, Ill. Conductor-support.....	366,289	July 12	736	200	40	147
Zimmermann, Charles E., Syracuse, N. Y. Rotary cutter for wood-work.....	360,794	Apr. 5	558	145	39	105
Zimmermann, John G., Jr. (See Dearstyne, Peter F., assignor.)						
Zimmermann, Lawrence J., Brooklyn, N. Y. Car-brake.....	367,573	Aug. 2	318	91, 92	40	512
Zingler, Maximilian, Belsize Park, county of Middlesex, England. Substitute for leather.....	362,139	May 3	119	.....	39	496
Zink, Anthony, Lancaster, Ohio. Hub-attaching device.....	368,562	Aug. 16	1774	471	40	806
Zinn, J. August, Altoona, Pa. Hydraulic switch and signal device.....	374,768	Dec. 13	854	{ 224 225 }	{ 41 41 }	1223
Zinn & Kayser. (See Lieb, Charles A., assignor.)						
Zinn, Simon. (See Koenig, Michael, assignor.)						
Zipperlen, Bernhard, Oak Harbor, Ohio. Churn.....	362,195	May 3	186	56	39	510
Zistel, Oscar. (See Meise, Eduard, assignor.)						
Zoeller, Theodore J., Louisville, Ky. Electric-clock system.....	357,885	Feb. 15	1665	{ 433 434 }	{ 38 38 }	749
Zoller, Charles, New York, N. Y., and F. Schimper, Union, N. J. Krause-measuring ap- paratus.....	371,724	Oct. 18	1408	364	41	295
Zöller, Edmund, Indianapolis, Ind. Cuff-holder.....	359,528	Mar. 15	1606	411	38	1214
Zöller, Edmund, New York, N. Y. Button.....	365,894	July 5	193	49	40	38
Zoller, William, Allegheny City, Pa. Clasp for suspenders.....	373,793	Nov. 22	2282	611	41	924
Zschech, Gustavus H., assignor to R. Miller, Indianapolis, Ind. Saw-catcher for band-saw mills.....	356,220	Jan. 18	1323	349	38	268
Zschech, Gustavus H., assignor to R. Miller, Indianapolis, Ind. Band-saw wheel.....	359,989	Mar. 22	2340	588	38	1363
Zucker, Maurice, Cleveland, Ohio. Gas-regulator.....	355,673	Jan. 4	512	135	38	101
Zwanziger, Heinrich. (See Rast, Gasser, and Zwanziger.)						
Zwanziger, Heinrich, Vienna, Austria-Hungary. Seal.....	371,910	Oct. 18	1682	435	41	348
Zwarts, John H. (See Minges, Adam G., assignor.)						
Zwoyer, Ellsworth B. A., and G. W. Auge, assignors of one-third to W. Vanreed, Reading, Pa. Fisherman's pole-rest.....	358,527	Mar. 1	175	41	38	935

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Abbott, George L., Corning, N. Y. Glass dish.....	17,110	Feb. 15	38	663
Abbott, Thomas A., Lowell, Mass. Easel.....	17,396	June 21	39	1330
Adams, Peter. (See Shepard and Adams.)				
Adams, Peter, assignor to C. G. and W. J. Shepard, Buffalo, N. Y. Toy pistol.....	17,397	June 21	39	1330
Allen, David, Albany, N. Y. Cigar-box.....	17,046	Jan. 4	38	2
Allen, Frank, assignor to Schofield, Mason & Co., Philadelphia, Pa. Carpet.....	{ 17,587 } 17,588	Aug. 9	40	580
Allen, Samuel L., Cinnaminson, N. J. Wheel.....	17,412	June 28	39	1430
American Printing Company. (See Harley, James B., assignor.)				
American Waltham Watch Company. (See Hull, Edgar L., assignor.)				
Anderson, John W. (See Howell and Anderson.)				
Anderson, Robert C., Bayonne, N. J. Tin can.....	17,143	Mar. 1	38	901
Anderson, William C., East Cambridge, Mass. Ornamentation of glassware.....	17,072	Jan. 25	38	334
Anthony, Edgar W., Boston, Mass. Heating-stove.....	17,641	Aug. 23	40	814
Armington Art Metal Company. (See Tomey, William H., assignor.)				
Arthur, William V., Oakland, Cal. Chin-rest for violins.....	17,111	Feb. 15	38	663
Atterbury, Thomas B., Pittsburg, Pa. Dish.....	17,192	Mar. 15	38	1134
Ayres, G. Ralston, Philadelphia, Pa. Horse-blanket.....	17,144	Mar. 1	38	901
Ayres, G. Ralston, Philadelphia, Pa. Fabric for horse-blankets.....	17,938	Dec. 13	41	1168
Ayres, G. Ralston, assignor to W. M. and L. H. Ayres, Philadelphia, Pa. Horse-sheet.....	17,864	Nov. 8	41	581
Ayres, G. Ralston, assignor to W. M. and L. H. Ayres, Philadelphia, Pa. Horse-blanket.....	17,865	Nov. 8	41	581
Ayres, G. Ralston, assignor to himself, W. M. and L. H. Ayres, Philadelphia, Pa. Horse-blanket.....	17,806	Oct. 25	41	358
Ayres, Louis H., <i>et al.</i> (See Ayres, G. Ralston, assignor.)				
Ayres, William M., <i>et al.</i> (See Ayres, G. Ralston, assignor.)				
Bailey, Charles A., Middletown, Conn., assignor to H. E. Taylor, New York, N. Y. Coffin-trimming.....	17,366	June 7	39	1087
Bailey, Ellene A., New York, N. Y. Bottle.....	17,047	Jan. 4	38	2
Baker, Scipio E., Springfield, Ohio. Burial-casket.....	17,124	Feb. 22	38	786
Ball, Annie, Chicago, Ill. Game-counter.....	17,249	Apr. 12	39	124
Bamberger, Henry, Philadelphia, Pa. Child's cap.....	17,254	Apr. 12	39	124
Barkentin, George S., assignor to P. & F. Corbin, New Britain, Conn. Hinge.....	17,255	Apr. 12	39	124
Barkentin, George S., assignor to P. & F. Corbin, New Britain, Conn. Knob and latch escutcheon-plate.....	17,338	May 10	39	592
Barkentin, George S., assignor to P. & F. Corbin, New Britain, Conn. Door-knob.....	17,339	May 10	39	592
Barnhart, Alson E. (See Barnhart, Arthur M., assignor.)				
Barnhart, Alson E., <i>et al.</i> (See Barnhart, Warren, assignor.)				
Barnhart, Alson E., <i>et al.</i> (See Heyer, Charles E., assignor.)				
Barnhart, Alson E., <i>et al.</i> (See Jackson, William W., assignor.)				
Barnhart, Alson E., <i>et al.</i> (See Lauschke, Ernst, assignor.)				
Barnhart, Arthur M., <i>et al.</i> (See Barnhart, Warren, assignor.)				
Barnhart, Arthur M., <i>et al.</i> (See Heyer, Charles E., assignor.)				
Barnhart, Arthur M., <i>et al.</i> (See Jackson, William W., assignor.)				
Barnhart, Arthur M., <i>et al.</i> (See Lauschke, Ernst, assignor.)				
Barnhart, Arthur M., assignor to himself and A. E. Barnhart, Chicago, Ill. Font of type.....	17,162	Mar. 8	38	1019
Barnhart Bros. & Spindler. (See Jackson, William W., assignor.)				
Barnhart Bros. & Spindler. (See Lauschke, Ernst, assignor.)				
Barnhart, Warren, assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type.....	17,665	Aug. 30	40	922
Barnhart, Warren, assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type.....	17,701	Sept. 13	40	1140
Bartlett, Hayward & Co. (See Parmelee, Homer, assignor.)				
Barton Bell Company. (See Brainard, Ellison L., assignor.)				
Baxter Electric Manufacturing and Motor Company. (See Baxter, William, Jr., assignor.)				
Baxter, William, Jr., assignor to Baxter Electric Manufacturing and Motor Company, Baltimore, Md. Electric-motor frame.....	17,256	Apr. 12	39	124
Beach, Joseph B. (See Berry and Beach.)				
Beale, Morton F., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	17,321	May 10	39	592
Beale, Morton F., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,505 } to { 17,513 }	Aug. 2	40	450
Beale, Morton F., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,589 } to { 17,593 }	Aug. 9	40	580
Bean, George W. (See Hurlbut and Bean.)				
Becker, August, New York, N. Y. Intaglio.....	17,399	June 21	39	1330
Becker, Michel, New Orleans, La. School-knapsack.....	17,791	Oct. 18	41	238
Beeler, Charles H., Jr., assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Font of printing-type.....	17,125	Feb. 22	38	786
Berger, William H., Philadelphia, Pa. Handle for cups, &c.....	17,360	May 31	39	964
Bernheimer & Bro., Jacob S. (See Friedlander, William S., assignor.)				
Berry, Henry, Huntington, assignor to Derby Silver Company, Birmingham, Conn. Card-receiver.....	17,073	Jan. 25	38	33
Berry, Henry, Huntington, assignor to Derby Silver Company, Birmingham, Conn. Card-receiver.....	17,163	Mar. 8	38	1019
Berry, Henry, Huntington, assignor to Derby Silver Company, Birmingham, Conn. Card-receiver.....	17,367	June 7	39	1087
Berry, Henry, Huntington, and J. B. Beach, Bridgeport, Conn. Ornamentation of silver plate.....	17,677	Sept. 6	40	1034
Bessell, John W., Hoboken, N. J. Railing.....	17,702	Sept. 13	40	1140
Biermann, John H., Hoboken, N. J. Box.....	17,866	Nov. 8	41	581
Biermann, John H., Hoboken, N. J. Box.....	17,878	Nov. 15	41	700
Bigelow Carpet Company. (See Gouch, William T., assignor.)				
Bigelow Carpet Company. (See Halliday, Arthur L., assignor.)				
Bigelow Carpet Company. (See Komori, Noric, assignor.)				
Bigelow Carpet Company. (See Loudon, Milton R., assignor.)				
Bigelow Carpet Company. (See McCallum, William, assignor.)				
Bigelow Carpet Company. (See Neil, John, assignor.)				
Bigelow Carpet Company. (See Spring, John, assignor.)				
Bigelow Carpet Company. (See Tew, George D., assignor.)				
Bigelow Carpet Company. (See Wishart, Joseph, assignor.)				
Black & Germer. (See Germer, Otto, assignor.)				
Black, William G., New York, N. Y. Bottle.....	17,504	Aug. 2	40	450

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Blair, George W., Pittsburg, Pa. Lamp-chimney.....	17,478	July 26	40	350
Bond, Joseph. (See Pierce and Bond.)				
Bowers, James, Newark, N. J. Corset.....	17,048	Jan. 4	38	2
Bowers, James, Newark, N. J. Corset.....	17,126	Feb. 22	38	786
Bradley & Hubbard Manufacturing Company. (See Patitz, Albert, assignor.)				
Brahadi, Abraham, Montreal, Quebec, Canada. Head-wear.....	17,232	Apr. 5	39	1
Brainard, Almon L., Oneida, N. Y. Fan.....	17,703	Sept. 13	40	1140
Brainard, Ellison L., assignor to Barton Bell Company, East Hampton, Conn. Sleigh-bell.....	17,164	Mar. 8	38	1019
Bray, Morris P., Worcester, Mass. Ornamentation of corsets.....	17,398	June 21	39	1330
Breckenridge, Charles A., Meriden, Conn. Badge or picture-frame.....	17,918	Dec. 6	41	1046
Brehmer, Henry, Castleton, assignor to D. W. Bruce, New York, N. Y. Printing-type.....	17,165	Mar. 8	38	1019
Brehmer, Henry, Castleton, assignor to D. W. Bruce, New York, N. Y. Type.....	17,479	July 26	40	350
Bright, George, assignor to Krabbe, Espenschied & Bright, St. Louis, Mo. Gateway or entrance for cemeteries.....	17,166	Mar. 8	38	1019
Brilbeck, John B., Syracuse, N. Y. Badge.....	17,738	Sept. 27	40	1344
Brinkerhoff, Warren M., Auburn, N. Y. Picture-hanger.....	17,704	Sept. 13	40	1140
Bromley & Sons, John. (See Fox, George B., assignor.)				
Bromley & Sons, John. (See North, Henry, assignor.)				
Bromley & Sons, John. (See Pegel, Julius, assignor.)				
Bromley & Sons, John. (See Petzold, Adolph, assignor.)				
Bromley & Sons, John. (See Weiss, Albert, assignor.)				
Brown, Joseph K., assignor to Canton Glass Company, Canton, Ohio. Lamp-body.....	17,979	Dec. 27	41	1394
Brownfield, Edward A., Hartwell Hall, Barlaston, county of Stafford, England. Pitcher or vase....	17,426	July 5	40	2
Bruce, David W. (See Brehmer, Henry, assignor.)				
Bruce, David W. (See Ruthven, Edwin C., assignor.)				
Bryant, William A., Newark, N. J. Finger-ring.....	17,906	Nov. 29	41	938
Buckwalter & Co. (See Calely, Edward L., assignor.)				
Bump, Roswell J., Binghamton, N. Y. Chair.....	17,939	Dec. 13	41	1168
Butterick Publishing Company. (See Duke, Henrietta F., assignor.)				
Butterick Publishing Company. (See Jenkins, Etta L., assignor.)				
Butterick Publishing Company. (See Kavanagh, Mary V., assignor.)				
Butterick Publishing Company. (See Moran, Ellen, assignor.)				
Butterick Publishing Company. (See Roys, Elizabeth, assignor.)				
Butterick Publishing Company. (See Roys, Lizzie, assignor.)				
Butterick Publishing Company. (See Sheils, Catherine, assignor.)				
Butterick Publishing Company. (See Sheils, Jennie, assignor.)				
Butterick Publishing Company. (See Turner, Mary, assignor.)				
Cahoone, Edwin R., Newark, N. J. Bridle-front.....	17,400	June 21	39	1330
Cahoone, Edwin R., Newark, N. J. Bridle-front.....	17,514	Aug. 2	40	450
Calely, Edward L., Philadelphia, assignor to Buckwalter & Co., Royer's Ford, Pa. Range or cooking-stove.....	17,953	Dec. 20	41	1275
Canton Glass Company. (See Brown, Joseph K., assignor.)				
Capitain, William F., assignor to Marder, Luse & Co., Chicago, Ill. Font of printing-type.....	17,629	Aug. 16	40	698
Capitain, William F., assignor to Marder, Luse & Co., Chicago, Ill. Type.....	17,727	Sept. 20	40	1246
Card, Milton E. (See Cruttenden and Card.)				
Carman, Nicholas, Springfield, Ohio. Badge.....	{ 17,678 } { 17,679 }	Sept. 6	40	1034
Carpenter, Charles C. (See Whitmarsh, Henry C., assignor.)				
Carr, Martin W., Somerville, Mass. Easel.....	17,220	Mar. 29	38	1369
Carr, Martin W., Somerville, Mass. Easel.....	17,231	Mar. 29	38	1370
Carr, Martin W., Somerville, Mass. Vase.....	{ 17,627 } { 17,628 }	Aug. 16	40	698
Carver, Horace P., Nebraska City, Nebr., assignor to Carver, Sprague & Co., Racine, Wis. Sad-iron.	17,642	Aug. 23	40	814
Carver, Sprague & Co. (See Carver, Horace P., assignor.)				
Casper, Charles, Meriden, Conn. Clock-case.....	17,237	Apr. 5	39	2
Chittenden, Horace H., assignor to Foy, Harmon & Chadwick, New Haven, Conn. Corset.....	17,049	Jan. 4	38	2
Chisholm, Isaac W., and C. S. Johnson, New Concord, Ohio. Medicine-register.....	17,907	Nov. 29	41	938
Christesen, Rodolphe W. E., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Ornamentation of builders' hardware.....	17,344	May 17	39	711
Clark, John S., assignor to Prang Educational Company, Boston, Mass. Color-plate.....	17,127	Feb. 22	38	786
Clarke, Samuel, Child's Hill Works, county of Middlesex, England. Candle-lamp.....	17,355	May 24	39	835
Clarke, William H., assignor to J. Howarth & Sons, Sheffield, county of York, England. Rasp or file.	17,413	June 28	39	1430
Cleveland Target Company. (See Hebbard, Albert H., assignor.)				
Coblens, John Z., New York, N. Y. Fabric.....	17,879	Nov. 15	41	700
Coblens, John Z., New York, N. Y. Fabric.....	17,919	Dec. 6	41	1046
Cochran, Andrew, Philadelphia, Pa. Carpet.....	17,434	July 12	40	122
Collins, Hamlet E., assignor to Lambertville Rubber Company, Lambertville, N. J. Rattle.....	17,077	Feb. 1	38	421
Conner, James M., New York, N. Y. Type.....	17,128	Feb. 22	38	786
Converse, Everett H., Brooklyn, N. Y. Sample or pattern card.....	17,386	June 14	39	1206
Co-Operative Foundry Company. (See Wilkinson, William H., assignor.)				
Co-Operative Stove Works. (See Goebel, Fritz, assignor.)				
Cooke, George K., assignor to D. S. Moore, New York, N. Y. Badge.....	17,867	Nov. 8	41	581
Corbin, P. & F. (See Barkentin, George S., assignor.)				
Contant, Chauncey, Crawfordsville, Ind. Corner-post for wagon-bodies.....	17,697	Sept. 6	40	1034
Cox, Lewis S. (See Osborne, John H., assignor.)				
Crane, Richard T., Chicago, Ill. Statuette.....	17,594	Aug. 9	40	580
Crane, Richard T., Chicago, Ill. Hand-wheel for steam-valves.....	17,868	Nov. 8	41	581
Crocker, Eugene B., Pawtucket, R. I. Easel.....	17,066	Jan. 18	38	234
Cruttenden, William H., and M. E. Card, Cazenovia, N. Y. Flying target.....	17,419	June 28	39	1430
Dalley, Henry, Jr., Brooklyn, N. Y. Bottle.....	17,515	Aug. 2	40	450
Dana, George D., St. Louis, Mo. Heating-stove.....	17,145	Mar. 1	38	901
Darbyshire, David K., San Francisco, Cal. Violin.....	17,888	Nov. 22	41	820
Davis, Augustus P., Pittsburg, Pa. Badge.....	17,167	Mar. 8	38	1019
Davis, Augustus P., Pittsburg, Pa. Badge.....	17,340	May 10	39	592
Davis, Augustus P., Pittsburg, Pa. Camp-seal.....	17,954	Dec. 20	41	1275
Davison, Joseph K., Philadelphia, Pa. Badge.....	17,887	Nov. 15	41	700
Dawson, Henry G. and W. R., Chicago, Ill. Fire-place grate.....	{ 17,401 } { 17,402 }	June 21	39	1330
Dawson, William R. (See Dawson, Henry G. and W. R.)				
Dean & Co., Matthew. (See Judd, Albert D., assignor.)				
Deeble, John, assignor of one-half to J. B. Savage, Southington, Conn. Ox-shoe.....	17,595	Aug. 9	40	580
Derby Silver Company. (See Berry, Henry, assignor.)				
Dobson, J. & J. (See Fawcett, Henry, assignor.)				
Dodd, William J., assignor to Fisher Brothers & Co., Louisville, Ky. Cooking-stove.....	17,420	June 28	39	1430

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Dodge, William H., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	17,286	May 3	39	471
Dodge, William H., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	17,322	May 10	39	592
Dornan Bros. (See Righter, Oscar, assignor.)				
Drew, George W., Washington, D. C. Water-gage column	17,940	Dec. 13	41	1168
Drew, George W., Washington, D. C. Steam-boiler front	17,941	Dec. 13	41	1168
Dreyfuss, Julius, New York, N. Y. Trimming	17,762	Oct. 11	41	128
Dryfoos & Co., L. (See Hildt, August, assignor.)				
Dryfoos & Co., Louis. (See Hildt, August, assignor.)				
Duke, Henrietta F., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	17,792	Oct. 18	41	238
Duke, Henrietta F., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's basque	17,842	Nov. 1	41	469
Duke, Henrietta F., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	17,908	Nov. 29	41	938
Duke, Henrietta F., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's walking-skirt	17,955	Dec. 20	41	1275
Duke, Henrietta F., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's evening waist	17,956	Dec. 20	41	1275
Dumont, Paul, New York, N. Y. Statue	17,106	Feb. 8	38	546
Eastburn, Robert H., Philadelphia, Pa., assignor to Novelty Manufacturing Company, Waterbury, Conn. Holder for matches	17,199	Mar. 22	38	1251
Egbert, C. Matilda, Kane, Pa. Vase	17,198	Mar. 22	38	1251
Eissler, Lewis J., Bascom, Ohio. Picture or mirror frame	17,287	May 3	39	471
Elderken, John, Rochester, N. Y. Shoe	17,705	Sept. 13	40	1140
Ellerby, Thomas E., Seneca Falls, N. Y. Inkstand and pen-rack	17,456	July 19	40	250
Ely, Frank S., assignor to C. Rogers & Bros., Meriden, Conn. Coffin-trimmings	17,793	Oct. 18	41	238
Erlanger, Charles, Baltimore, Md. Re-enforce for trousers	17,794	Oct. 18	41	238
Fawcett, Henry, Kidderminster, England, assignor to J. & J. Dobson, Philadelphia, Pa. Carpet	17,869	Nov. 8	41	581
Fawcett, Henry, Kidderminster, England, assignor to J. & J. Dobson, Philadelphia, Pa. Carpet	{ 17,889 to 17,891 }	Nov. 22	41	820
Fawcett, Henry, Kidderminster, England, assignor to J. & J. Dobson, Philadelphia, Pa. Carpet	{ 17,957 to 17,969 }	Dec. 20	41	1275
Ferguson, Joseph, assignor to Stead & Miller, Philadelphia, Pa. Curtain	{ 17,980 to 17,981 }	Dec. 27	41	1394
Ferguson, William J., Baltimore, Md. Frame for ice-machines	17,210	Mar. 29	38	1369
Filson, Harris, <i>et al.</i> (See Howell and Anderson, assignors.)				
Fisher Brothers & Co. (See Dodd, William J., assignor.)				
Fisher, Edwin, New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	{ 17,288 to 17,292 }	May 3	39	471
Fisher, Edwin, New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	17,323	May 10	39	592
Fisher, Edwin, New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	{ 17,368 to 17,371 }	June 7	39	{ 1087 1088 }
Fisher, Edwin, New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	{ 17,516 to 17,520 }	Aug. 2	40	450
Fisher, Edwin, New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	{ 17,596 to 17,598 }	Aug. 9	40	580
Fisher, Edwin, New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	{ 17,706 to 17,708 }	Sept. 13	40	1140
Fisher, John, New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	17,709	Sept. 13	40	1140
Fitch, Asa M., Seymour, Ind. Box	17,146	Mar. 1	38	901
Flanagan, James I., Philadelphia, Pa. Plate for stove-pipe flues, &c	17,457	July 19	40	250
Follett, Francis A. (See Rider, Lewis J., assignor.)				
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	17,211	Mar. 29	38	1369
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	17,238	Apr. 5	39	2
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	{ 17,435 to 17,439 }	July 12	40	122
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	{ 17,480 to 17,481 }	July 26	40	350
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	{ 17,521 to 17,571 }	Aug. 2	40	450
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	{ 17,599 to 17,606 }	Aug. 9	40	580
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	{ 17,622 to 17,623 }	Aug. 9	40	580
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	17,643	Aug. 23	40	814
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	17,666	Aug. 30	40	922
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	17,739	Sept. 27	40	1344
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	{ 17,807 to 17,808 }	Oct. 25	41	358
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	17,870	Nov. 8	41	581
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	17,970	Dec. 20	41	1275
Foote, John H., Brooklyn, N. Y., and G. S. Knapp, Chicago, Ill. Drum-case	17,147	Mar. 1	38	901
Forbes, Daniel, assignor to G. H. Hibbler, Brooklyn, N. Y. Ornamentation of glassware	17,086	Feb. 8	38	545
Fox, George B., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	17,087	Feb. 8	38	545
Fox, George B., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	17,892	Nov. 22	41	820
Foy, Harmon & Chadwick. (See Chittenden, Horace H., assignor.)				
Frank, Louis M., Philadelphia, Pa. Hood	17,728	Sept. 20	40	1246
Franz, Henry, assignor to Windsor Glass Company, Pittsburg, Pa. Tooth-pick holder, &c	17,345	May 17	39	711
Frere, Nestor, London, county of Middlesex, England. Medal	17,843	Nov. 1	41	469
Friedlander, William S., Hoboken, N. J., assignor to J. S. Bernheimer & Bro., New York, N. Y. Ornamentation of fabrics	17,880	Nov. 15	41	700

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Fuller & Warren Company. (See Wolfe, Gurdon G., assignor.)				
Galbraith, Robert, Lansingburg, assignor to M. Peckham, Utica, N. Y. Heating-stove	17,909	Nov. 29	41	938
Gallinger, Joseph, New York, N. Y. Lamp-pedestal	{ 17,278 } 17,279	Apr. 26	39	366
Gallinger, Joseph, New York, N. Y. Drinking-glass	17,795	Oct. 18	41	238
Garbutt, Andrew. (See Magee and Garbutt.)				
Gardner, William H., New Haven, Conn. Box	17,982	Dec. 27	41	1394
Garlick Process Heating Company. (See Reiffenstine, John E., assignor.)				
Gedney, Charles F., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	17,930	Dec. 6	41	1046
Gendron, Peter, Toledo, Ohio. Carriage-body	17,129	Feb. 22	38	786
Gendron, Peter, Toledo, Ohio. Canopy-top for children's carriages	17,893	Nov. 22	41	820
Germer, Otto, assignor to Black & Germer, Erie, Pa. Heating-stove	17,740	Sept. 27	40	1344
Giesecke, George F., Leipsic, Saxony, Germany. Font of printing-type	17,067	Jan. 18	38	234
Giesecke, George F., Leipsic, Saxony, Germany. Font of type ornaments or combination border ..	17,403	June 21	39	1330
Giesecke, George F., Leipsic, Saxony, Germany. Font of combination type ornaments	17,572	Aug. 2	40	450
Giesecke, George F., Leipsic, Saxony, Germany. Font of printing-type	17,607	Aug. 9	40	580
Giesecke, George F., Leipsic, Saxony, Germany. Font of type ornaments	17,940	Nov. 29	41	938
Gill, James C., assignor to Hemingray Glass Co., Covington, Ky. Paper-weight, match-safe, &c. ...	17,148	Mar. 1	38	901
Gillin, Robert F., Brooklyn, N. Y. Letters for signs	17,624	Aug. 9	40	580
Gloekler, Charles, Pittsburg, Pa. Meat-rack	17,796	Oct. 18	41	238
Gobeille, Joseph L., and H. Matzen, Cleveland, assignors to W. L. Sharp & Son, Steubenville, Ohio. Fire-place back	17,343	May 10	39	592
Godshalk Company, E. H. (See Landenberger, Martin, Jr., assignor.)				
Goebel, Fritz, assignor to Co-Operative Stove Works, Troy, N. Y. Parlor-stove	17,212	Mar. 29	38	1369
Goetting, Adolph, New York, N. Y. Bottle	17,222	Mar. 29	38	1370
Gohmann, Frank H. (See Terstegge, Gohmann, Stratton, and Gohmann.)				
Gohmann, Romanus H. (See Terstegge, Gohmann, Stratton, and Gohmann.)				
Goldsmith, Gustavus A., New York, N. Y. Rubber eraser	{ 17,971 } 17,972	Dec. 20	41	1275
Goodwin, Charles D., New Haven, Conn. Toy	17,200	Mar. 22	38	1251
Gorham Manufacturing Company. (See Wilkinson, Walter, assignor.)				
Gouch, William T., Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet ..	{ 17,763 } to 17,766	Oct. 11	41	128
Grange, William, Philadelphia, Pa. Casing for cans	17,221	Mar. 29	38	1369
Greene, John A., Brooklyn, N. Y. Belt-stud tool	17,306	May 3	39	472
Griffin, Alonzo J., Wilkes-Barré, Pa. Fence-bar	17,239	Apr. 5	39	2
Griffin Iron Company, A. A. (See Rohlf, Charles, assignor.)				
Griswold, Catharine A., New York, N. Y. Ornamentation of corsets	{ 17,079 } to 17,081	Feb. 1	38	421
Griswold, Catharine A., New York, N. Y. Ornamentation of corsets	17,088	Feb. 8	38	545
Griswold, Catharine A., New York, N. Y. Ornamentation of corsets	17,179	Mar. 15	38	1134
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Hat or clothes brush	17,404	June 21	39	1330
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Hand-mirror frame	17,421	June 28	39	1430
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Hair-brush	17,422	June 28	39	1430
Grout, L. Solon, Chicago, Ill. Watch-maker's sign	17,213	Mar. 29	38	1369
Guerin, Pierre E., New York, N. Y. Lamp-standard	17,050	Jan. 4	38	2
Guerin, Pierre E., New York, N. Y. Lamp	17,667	Aug. 30	40	922
Gurney, Edward, Toronto, Ontario, Canada, assignor to Gurney Hot Water Heater Company, Boston, Mass. Radiator-screen	17,240	Apr. 5	39	2
Gurney Hot Water Heater Company. (See Gurney, Edward, assignor.)				
Hadenfeldt, Charles, San Francisco, Cal. Badge	17,440	July 12	40	122
Hall, Zachary T., Philadelphia, Pa. Plate for stove-pipe flues	17,458	July 19	40	250
Halliday, Arthur L., New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet ..	{ 17,767 } to 17,775	Oct. 11	41	128
Halliday, Arthur L., New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet ..	17,844	Nov. 1	41	469
Halliday, Arthur L., New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet ..	17,973	Dec. 20	41	1275
Hamilton, Clayton M., Lake Village, N. H. Loom-picker	17,427	July 5	40	2
Hankinson, John H., New York, N. Y. Andiron	{ 17,168 } to 17,170	Mar. 8	38	1019
Hankinson, John H., New York, N. Y. Coal grate or basket	17,974	Dec. 20	41	1275
Hansell, Walter P., Pittsburg, Pa. Soap-box	{ 17,056 } 17,057	Jan. 11	38	110
Hardman, John, New York, N. Y. Ornamental panel for pianos	17,729	Sept. 20	40	1246
Harley, James B., assignor to American Printing Company, Fall River, Mass. Print-cloth	17,414	June 28	39	1430
Hartford Carpet Company. (See Folsom, James L., assignor.)				
Hartford Carpet Company. (See Heinigke, Otto, assignor.)				
Hartford Carpet Company. (See Hunt, Henry, assignor.)				
Hartford Carpet Company. (See Jacobs, Winthrop L., assignor.)				
Hartford Carpet Company. (See Rugen, Frederick A., assignor.)				
Hartford Carpet Company. (See Sayers, William E., assignor.)				
Hartman, Josephus, Philadelphia, Pa. Biscuit-cracker	17,757	Oct. 4	41	2
Haviland, Charles E., Limoges, France. Deep dish	17,058	Jan. 11	38	110
Haviland, Charles E., Limoges, France. Cup	17,059	Jan. 11	38	110
Haviland, Charles E., Limoges, France. Ornamentation of dishes	{ 17,060 } to 17,062	Jan. 11	38	110
Haviland, Charles E., Limoges, France. Handle for dishes	17,063	Jan. 11	38	110
Haviland, Charles E., Limoges, France. Ornamentation of dishes	{ 17,068 } 17,069	Jan. 18	38	234
Haviland, Charles E., Limoges, France. Dish	17,074	Jan. 25	38	334
Hawkes, Thomas G., Corning, N. Y. Ornamentation of glass, &c.	{ 17,837 } 17,838	Oct. 25	41	358
Hawley, Charles A., Denver, Colo. Badge	17,839	Oct. 25	41	358
Hayden, Hiram W., assignor to Rogers & Hamilton Company, Waterbury, Conn. Spoon or fork handle ..	17,241	Apr. 5	39	2
Hayden, Hiram W., assignor to Holmes, Booth & Haydens, Waterbury, Conn. Lamp-collar	17,871	Nov. 8	41	581
Hayes, George P., Rochester, N. H. Scarf-pin	17,845	Nov. 1	41	469
Hayes, William, Newark, N. J. Watch-case	17,680	Sept. 6	40	1034

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Heazle, Frank, Brewer, Me. Rubber pin-plate for metallic hair-brushes.....	17,372	June 7	39	1088
Hebbard, Albert H., assignor to Cleveland Target Company, Cleveland, Ohio. Flying target.....	17,089	Feb. 8	38	545
Hecht, Max, New York, N. Y. Smoking-set.....	17,741	Sept. 27	40	1344
Hecht, Max, New York, N. Y. Whisk-broom holder.....	17,846	Nov. 1	41	469
Hecht, Max, New York, N. Y. Whisk-broom holder.....	17,872	Nov. 8	41	581
Heck, August. (See Reshower and Heck.)				
Heilner & Strauss. (See Hertzog, Paul T., assignor.)				
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.	{ 17,250 } { 17,251 }	Apr. 12	39	124
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.	{ 17,644 } { 17,645 }	Aug. 23	40	814
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.	{ 17,742 } { 17,743 }	Sept. 27	40	1344
Hellenberg, Adolph, New York, N. Y. Scarf.....	17,608	Aug. 9	40	580
Heller, Charles J., Philadelphia, Pa. Hat.....	17,710	Sept. 13	40	1140
Hemingray Glass Co. (See Gill, James C., assignor.)				
Henkle, Leonard, Rochester, N. Y. Lamp-burner.....	17,090	Feb. 8	38	545
Henson, Francis W., Philadelphia, Pa. Hood fabric.....	17,441	July 12	40	122
Hertwig, Theodore, New York, N. Y., assignor to F. Wenter, Chicago, Ill. Hall hat-rack.....	17,180	Mar. 15	38	1134
Hertzog, Paul T., Newark, N. J., assignor to Heilner & Strauss, New York, N. Y. Corset.....	17,242	Apr. 5	39	2
Herzog, William H., Baltimore, Md. Scarf.....	17,847	Nov. 1	41	469
Heyer, Charles E., Chicago, Ill. Font of printing-type.....	17,894	Nov. 22	41	820
Heyer, Charles E., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing script type.....	17,091	Feb. 8	38	545
Heyer, Charles E., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type.....	17,668	Aug. 30	40	922
Heymann, Isidor, New York, N. Y. Purse.....	17,107	Feb. 8	38	546
Hibbler, George H. (See Forbes, Daniel, assignor.)				
Hickman, Francis, New York, N. Y. Gas-fixtute.....	17,078	Feb. 1	38	421
Hildt, August, assignor to L. Dryfoos & Co., New York, N. Y. Quilted fabric.....	{ 17,092 } { 17,093 }	Feb. 8	38	545
Hildt, August, assignor to L. Dryfoos & Co., New York, N. Y. Ornamentation of skirts, linings, &c.	{ 17,809 } { to } { 17,814 }	Oct. 25	41	358
Hill, Eugene H., assignor to Schofield, Mason & Co., Philadelphia, Pa. Carpet.....	{ 17,609 } { 17,610 }	Aug. 9	40	580
Hill, Thomas, assignor to Story & Clark, Chicago, Ill. Musical-instrument case.....	17,482	July 26	40	350
Hill, Thomas, assignor to Story & Clark, Chicago, Ill. Musical-instrument case.....	17,625	Aug. 9	40	580
Hiller, Louis C., assignor to Meriden Silver Plate Company, Meriden, Conn. Banjo clock-case.....	17,075	Jan. 25	38	334
Hobler, Peter, Chicago, Ill. Frame for portable grinding-mills.....	17,051	Jan. 4	38	2
Holman & Co., A. J. (See Holman, William A., assignor.)				
Holman, William A., assignor to A. J. Holman & Co., Philadelphia, Pa. Album-leaf.....	17,233	Apr. 5	39	1
Holmes, Booth & Haydens. (See Hayden, Hiram W., assignor.)				
Holmes & Edwards Silver Company. (See Klingel and Wilks, assignors.)				
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,258 } { to } { 17,268 }	Apr. 19	39	248
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,373 } { 17,374 }	June 7	39	1088
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,711 } { to } { 17,716 }	Sept. 13	40	1140
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,815 } { to } { 17,817 }	Oct. 25	41	358
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,931 } { to } { 17,933 }	Dec. 6	41	1046
Horton, Henry A. R., Greenville, Tex. Badge.....	17,483	July 26	40	350
Howarth & Sons, James. (See Clarke, William H., assignor.)				
Howe, Charles S., et al. (See Howell and Anderson, assignors.)				
Howell, Jonathan, and J. W. Anderson, London, county of Middlesex, England, assignors to E. and J. Wright, C. S. Howe, and G. T. Moxey, Philadelphia, Pa., and H. Filson, New York, N. Y. Hat-rack.....	17,911	Nov. 29	41	938
Hull, Edgar L., assignor to American Waltham Watch Company, Waltham, Mass. Series of time-piece characters.....	17,357	May 24	39	836
Hull, Wolcott A., New York, N. Y. Lamp.....	17,848	Nov. 1	41	469
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	17,201	Mar. 22	38	1252
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	17,223	Mar. 29	38	1370
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	17,307	May 3	39	472
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	{ 17,442 } { 17,443 }	July 12	40	122
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	{ 17,501 } { 17,502 }	July 26	40	350
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	17,646	Aug. 23	40	814
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	17,651	Sept. 6	40	1034
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	17,818	Oct. 25	41	358
Huntington, Anna M., Philadelphia, Pa. Perfumed sachet.....	17,423	June 28	39	1430
Hurlbut, James H., and G. W. Bean, Philadelphia, Pa. Bottle-holder.....	17,171	Mar. 8	38	1019
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Font of type ornaments.....	17,341	May 10	39	592
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Font of printing-type.....	17,346	May 17	39	711
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Font of printing-type.....	17,361	May 31	39	964
Ivins, Dietz & Magee. (See Speck, James G., assignor.)				
Jackson, William W., Philadelphia, Pa., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Type.....	17,130	Feb. 22	38	7-6
Jackson, William W., Philadelphia, Pa., assignor to Barnhart Bros. & Spindler, Chicago, Ill. Type.....	17,797	Oct. 18	41	238
Jackson, William W., assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Font of printing-type.....	17,342	May 10	39	592
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	17,202	Mar. 22	38	1252
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford Conn. Carpet.....	{ 17,252 } { 17,253 }	Apr. 12	39	124

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Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.	{ 17,444 } 17,445	July 12	40	122
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.	{ 17,484 } to 17,488	July 26	40	350
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.	17,503	July 26	40	350
Jacobs, Winthrop L., East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.	17,717	Sept. 13	40	1140
Jacobs, Winthrop L., East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.	{ 17,819 } to 17,824	Oct. 25	41	358
Jenkins, Etta L., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume.	17,682	Sept. 6	40	1034
Jenkins, Etta L., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Miss's costume.	17,776	Oct. 11	41	128
Jenkins, Etta L., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Child's coat.	17,825	Oct. 25	41	358
Jenkins, Etta L., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume.	17,849	Nov. 1	41	469
Jenkins, Etta L., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Miss's costume.	17,850	Nov. 1	41	469
Jenkins, Etta L., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume.	17,912	Nov. 29	41	938
Jenkins, Etta L., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's dress.	17,942	Dec. 13	41	1168
Jennings, Oliver T., assignor to A. G. Jennings & Sons, Brooklyn, N. Y. Knitted fabric.	17,873	Nov. 8	41	581
Jennings & Sons, A. G. (See Jennings, Oliver T., assignor.)				
Johnson, Charles S. (See Christholm and Johnson.)				
Johnson, Edward E., Painesville, Ohio. Ornamental border for carpets, &c.	17,293	May 3	39	471
Johnson, Thomas, assignor to H. Rendtorff, Chicago, Ill. Surface ornamentation of stove-boards.	{ 17,913 } 17,914	Nov. 29	41	938
Jones, Frank A., New York, N. Y. Box.	17,851	Nov. 1	41	469
Judd, Albert D., Wallingford, Conn., assignor to M. Dean & Co., New York, N. Y. Nut-cracker.	17,446	July 12	40	122
Kaeslin, Andrew, Philadelphia, Pa. Carpet.	17,447	July 12	40	122
Kahn & Brothers, F. & L. (See Kahn and Thiem, assignors.)				
Kahn, Lazard, Hamilton, Ohio. Heating-stove.	17,082	Feb. 1	38	421
Kahn, Lazard, and R. Thiem, assignors to F. & L. Kahn & Brothers, Hamilton, Ohio. Stove.	17,172	Mar. 8	38	1019
Kahn, Lazard, and R. Thiem, assignors to F. & L. Kahn & Brothers, Hamilton, Ohio. Heating-stove.	17,718	Sept. 13	40	1140
Kahn, Lazard, and R. Thiem, assignors to F. & L. Kahn & Brothers, Hamilton, Ohio. Cooking-stove.	17,744	Sept. 27	40	1344
Kahn, Lazard, and R. Thiem, assignors to F. & L. Kahn & Brothers, Hamilton, Ohio. Cooking-stove.	17,798	Oct. 18	41	238
Kaufmann, Joseph, New York, N. Y. Cigar lighter and cutter stand.	17,630	Aug. 16	40	698
Kavanagh, Mary V., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Little girl's coat.	17,943	Dec. 13	41	1168
Kelsey, William A., Meriden, Conn. Card.	17,308	May 3	39	472
Kerr, David B., Philadelphia, Pa. Upholstery fabric.	17,799	Oct. 18	41	238
Keyser, Peter D., assignor to P. H. Sheridan, trustee, Philadelphia, Pa. Badge.	17,294	May 3	39	471
Kingsbury, John, Albany, N. Y. Landau-sleigh.	17,631	Aug. 16	40	698
Kingsbury, John, Albany, N. Y. Landau-sleigh.	17,874	Nov. 8	41	581
Kirschbaum, John. (See Putnam and Kirschbaum.)				
Klingel, Robert H., West Stratford, and W. L. Wilks, Bridgeport, assignors to Holmes & Edwards Silver Company, West Stratford, Conn. Spoon, &c.	17,777	Oct. 11	41	128
Knapp, George S. (See Foote and Knapp.)				
Kneedler, Howard S., Philadelphia, Pa. Ticking or similar woven fabric.	17,393	June 14	39	1206
Kneedler, Howard S., Philadelphia, Pa. Ticking or similar woven fabric.	17,424	June 28	39	1430
Kneedler, Howard S., Philadelphia, Pa. Ticking or similar fabric.	17,428	July 5	40	2
Kneedler, Howard S., Philadelphia, Pa. Ticking or similar fabrics.	{ 17,573 } 17,574	Aug. 2	40	450
Kneedler, Howard S., Philadelphia, Pa. Ticking or similar fabric.	17,626	Aug. 9	40	580
Kochs, Theodore A., Chicago, Ill. Ornamentation of barbers' chairs.	17,283	Apr. 26	39	366
Kohler, Nathan, Brooklyn, N. Y. Game-board.	17,915	Nov. 29	41	938
Kohn, Felix, Vienna Austria-Hungary. Chair-back.	17,448	July 12	40	122
Komori, Noric, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.	{ 17,730 } to 17,733	Sept. 20	40	1246
Komori, Noric, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.	17,852	Nov. 1	41	469
Krabbe, Espenschied & Bright. (See Bright, George, assignor.)				
Kribs, Anthony, Brooklyn, N. Y. Ornamentation of globes and similar articles.	17,149	Mar. 1	38	901
Kühn, George, St. Louis, Mo. Housing or frame for sash-pulleys.	17,173	Mar. 8	38	1019
Kundtz, Theodor, Cleveland, Ohio. Sewing-machine cover.	17,415	June 28	39	1430
La Francis, Anthony, Newark, N. J. Harness-trimming chain.	17,356	May 24	39	835
Lambert, Julius, Hoboken, N. J. Ornamentation of pocket-book clasps, &c.	17,324	May 10	39	592
Lambertville Rubber Company. (See Collins, Hamlet E., assignor.)				
Landenberger, Martin, Jr., assignor to E. H. Godshalk Company, Philadelphia, Pa. Fabric.	17,489	July 26	40	350
Landenberger, Martin, Jr., assignor to E. H. Godshalk Company, Philadelphia, Pa. Fabric.	17,648	Aug. 23	40	814
Lauschke, Ernst, assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type.	{ 17,698 } 17,699	Sept. 6	40	1034
Lauschke, Ernst, Lake, assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type.	{ 17,800 } 17,801	Oct. 18	41	238
Lauschke, Ernst, assignor to Barnhart Bros. & Spindler, Chicago, Ill. Font of printing-type.	17,758	Oct. 4	41	2
Le Mout, Adolphe, New York, N. Y. Mourning flower-piece.	17,490	July 26	40	350
Le Mout, Adolphe, New York, N. Y. Flower-piece.	17,875	Nov. 8	41	581
Ledig & Herrlein. (See Nacke, Arnold, assignor.)				
Legler, Charles, Willard, Tex. Shovel cleaner or knife.	17,295	May 3	39	471
Leiter, Isaac H., New York, N. Y. Gimp.	17,325	May 10	39	592
Letchworth, Ogden P., Buffalo, N. Y. Snap-hook.	17,975	Dec. 20	41	1275
Levin, William, New York, N. Y. Picture-frame.	17,944	Dec. 13	41	1168
Lindol, Harry C., Providence, R. I. Bracelet.	17,070	Jan. 18	38	234
Lipper, Benjamin, Philadelphia, Pa. Trimming.	17,649	Aug. 23	40	814
Little, Andrew, New York, N. Y. Font of printing-type.	17,632	Aug. 16	40	698
Littlefield, Dennis G., Albany, N. Y. Magazine coal-stove.	17,669	Aug. 30	40	922

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Livingston, Francis M., assignor to Rubber and Celluloid Harness Trimming Company, Newark, N. J. Bridle-front	{ 17,094 to 17,096 }	Feb. 8	38	545
Lloyd, Harlan P. (See Sagendorph, Longley L., assignor.)				
Lockwood Manufacturing Company. (See Village, Thomas, assignor.)				
Loudon, Milton R., Jersey City, N. J., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	17,778	Oct. 11	41	128
Low, J. G. & J. F. (See Osborne, Arthur, assignor.)				
Lowell Manufacturing Company. (See Beal, Morton F., assignor.)				
Lowell Manufacturing Company. (See Dodge, William H., assignor.)				
Lowell Manufacturing Company. (See Fisher, Edwin, assignor.)				
Lowell Manufacturing Company. (See Fisher, John, assignor.)				
Lowell Manufacturing Company. (See Gedney, Charles F., assignor.)				
Lowell Manufacturing Company. (See Horan, Henry, assignor.)				
Lowell Manufacturing Company. (See Jacobs, Winthrop L., assignor.)				
Lowell Manufacturing Company. (See McMann, John, assignor.)				
Lowell Manufacturing Company. (See Poole, Edward, assignor.)				
Lowell Manufacturing Company. (See Sauer, Emil G., assignor.)				
Lowell Manufacturing Company. (See Swapp, Charles W., assignor.)				
Lowell Manufacturing Company. (See Valentine, Lucy W., assignor.)				
Lowell Manufacturing Company. (See Wright, George C., assignor.)				
Lowrey, William W., Brooklyn, N. Y. Bottle	17,945	Dec. 13	41	1168
Lucas, Simeon H., San Bernardino, Cal. Brooch	17,916	Nov. 29	41	938
Lueders, Julia, St. Louis, Mo. Chair	17,375	June 7	39	1088
Lyall, James, New York, N. Y. Carpet	17,779	Oct. 11	41	128
Lyon, John G., assignor to O'Hara Glass Company, (limited,) Pittsburg, Pa. Ash-receiver	17,181	Mar. 15	38	1134
MacKellar, Smiths & Jordan Company. (See Beeler, Charles H., Jr., assignor.)				
MacKellar, Smiths & Jordan Company. (See Ihlenburg, Herman, assignor.)				
MacKellar, Smiths & Jordan Company. (See Jackson, William W., assignor.)				
Magee, Frank A., Chelsea, and A. Garbutt, assignors to Magee Furnace Company, Boston, Mass. Heating-stove	{ 17,802 to 17,803 }	Oct. 18	41	238
Magee Furnace Company. (See Magee and Garbutt, assignors.)				
Major, Richard, assignor to G. Munro, New York, N. Y. Book-cover	17,376	June 7	39	1088
Malliet, Charles G., Jersey City, N. J. Badge, pin, &c	17,947	Dec. 13	41	1168
Malliet, Charles G., Jersey City, N. J. Badge, pin, &c	17,983	Dec. 27	41	1394
Manhattan Type Foundry. (See West, John, assignor.)				
Mankey, Frederick, Williamsport, Pa. Panel	17,083	Feb. 1	38	421
Mankey, Frederick, Williamsport, Pa. Panel	{ 17,112 to 17,117 }	Feb. 15	38	664
Mankey, Frederick, Williamsport, Pa. Molding	17,131	Feb. 22	38	786
Mankey, Frederick, Williamsport, Pa. Open-work panel	17,132	Feb. 22	38	786
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls	17,133	Feb. 22	38	786
Mankey, Frederick, Williamsport, Pa. Molding	{ 17,134 to 17,135 }	Feb. 22	38	786
Mankey, Frederick, Williamsport, Pa. Panel	17,136	Feb. 22	38	786
Mankey, Frederick, Williamsport, Pa. Molding	{ 17,137 to 17,139 }	Feb. 22	38	786
Mankey, Frederick, Williamsport, Pa. Panel	17,140	Feb. 22	38	786
Mankey, Frederick, Williamsport, Pa. Molding	17,182	Mar. 15	38	1134
Mankey, Frederick, Williamsport, Pa. Panel	{ 17,183 to 17,185 }	Mar. 15	38	1134
Mankey, Frederick, Williamsport, Pa. Panel	17,203	Mar. 22	38	1252
Mankey, Frederick, Williamsport, Pa. Panel	{ 17,224 to 17,225 }	Mar. 29	38	1370
Mankey, Frederick, Williamsport, Pa. Molding	17,226	Mar. 29	38	1370
Marder, Luse & Co. (See Capitain, William F., assignor.)				
Maris, Jared, Columbus, Ohio. Wheel-hub	17,719	Sept. 13	40	1140
Mart, Arthur T., Brooklyn, N. Y. Tiling	17,387	June 14	39	1206
Martens, John F., assignor to Redway & Burton, Cincinnati, Ohio. Ornamentation of cooking-stoves	17,459	July 19	40	250
Martens, John F., assignor to Redway & Burton, Cincinnati, Ohio. Heating-stove	17,759	Oct. 4	41	2
Matzen, Herman. (See Gobielle and Matzen.)				
Maxcy, John W., Austin, Tex. Badge or medal	17,920	Dec. 6	41	1046
Maxwell, John, Oneida, N. Y. Casket-lid	17,108	Feb. 8	38	546
Maxwell, John, Oneida, N. Y. Burial-casket lid	17,650	Aug. 23	40	814
Maxwell, John, Brooklyn, N. Y. Coat or hat rack	17,429	July 5	40	2
Maxwell, John, Brooklyn, N. Y. Coat, hat, and umbrella rack	17,460	July 19	40	250
Mayer, Gustav A., Stapleton, N. Y. Pastry-wafer	17,150	Mar. 1	38	901
McCallum, William, Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	17,946	Dec. 13	41	1168
McClurg & Co., A. G. (See Terhune, John, assignor.)				
McKee & Brothers. (See Proeger, Julius, assignor.)				
McMann, John, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	17,934	Dec. 6	41	1046
McMurray, Daniel E. D., Brooklyn, N. Y. Watch-case	17,280	Apr. 26	39	366
Meagher, Thomas E., assignor to Schofield, Mason & Co., Philadelphia, Pa. Carpet	{ 17,461 to 17,471 }	July 19	40	250
Meagher, Thomas E., assignor to Schofield, Mason & Co., Philadelphia, Pa. Carpet	{ 17,611 to 17,612 }	Aug. 9	40	580
Mellinger, Michel, assignor to Warren, Lange & Co., New York, N. Y. Frieze decoration	17,745	Sept. 27	40	1344
Mellinger, Michel, assignor to Warren, Lange & Co., New York, N. Y. Ceiling-decoration	17,746	Sept. 27	40	1344
Meriden Silver Plate Company. (See Hiller, Louis C., assignor.)				
Mersereau, Frank D., Orange, N. J. Cuspidor	17,358	May 24	39	836
Mersereau, William T., Orange, N. J. Cuspidor	17,747	Sept. 27	40	1344
Mersereau, William T., Orange, N. J. Stand for tea-kettles	17,935	Dec. 6	41	1046
Metz, M. Albert, Philadelphia, Pa. Hood	17,748	Sept. 27	40	1344
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	{ 17,151 to 17,157 }	Mar. 1	38	{ 901 902 }
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	{ 17,326 to 17,334 }	May 10	39	592

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Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth.	{ 17,405 to 17,409 17,683 }	June 21	39	1330
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth.	{ 17,683 to 17,690 17,895 }	Sept. 6	40	1034
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth.	{ 17,895 to 17,899 17,921 }	Nov. 22	41	820
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth.	{ 17,921 to 17,925 17,984 }	Dec. 6	41	1046
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth.	{ 17,984 to 17,988 }	Dec. 27	41	1394
Meyer, Victor E. (See Meyer, Charles T. and V. E.)				
Miller, James W., Newark, N. J. Ornamentation of sleeve-buttons, &c	17,633	Aug. 16	40	698
Miller, James W., Newark, N. J. Sleeve-button or similar article	{ 17,651 17,652 }	Aug. 23	40	814
Miller, James W., Newark, N. J. Sleeve-button, &c	17,691	Sept. 6	40	1034
Miller, John E., Pittsburg, Pa. Table-ware	17,186	Mar. 15	38	1134
Miller, John F., Martin's Ferry, Ohio. Lamp-chimney	17,853	Nov. 1	41	469
Miller, Lebbens B., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Leg or side frame for sewing-machines	17,052	Jan. 4	38	2
Mississippi Glass Company. (See Rowe, Alfred L., assignor.)				
Mix, Frank W., New Britain, Conn. Hasp-lock case	17,670	Aug. 30	40	922
Modini, John, Washington, D. C. Ornamentation of fire-screens, &c	17,234	Apr. 5	39	1
Monier, Fredrick, Newark, N. J. Bridle-bit	17,158	Mar. 1	38	902
Moore, D. Sackett. (See Cooke, George K., assignor.)				
Moran, Ellen, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume.	17,926	Dec. 6	41	1046
Moran, Ellen, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume.	17,948	Dec. 13	41	1168
Morgan, Thomas, Philadelphia, Pa. Horse-boot	17,053	Jan. 4	38	2
Mott Iron Works, J. L. (See Peet, William C., assignor.)				
Moxey, George T., <i>et al.</i> (See Howell and Anderson, assignors.)				
Munro, George. (See Major, Richard, assignor.)				
Nacke, Arnold, assignor to Ledig & Herrlein, Philadelphia, Pa. Wall-stand	17,064	Jan. 11	38	110
Nason, Albert D. (See Olmstead and Nason.)				
Neil, John, Brooklyn, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	{ 17,780 to 17,782 }	Oct. 11	41	128
Newman, Isaac, New Haven, Conn. Corset	17,204	Mar. 22	38	1252
Nielson, Iver, Kindred, Dak. Ter. Pattern for shoe-uppers	17,281	Apr. 26	39	366
Niemann, Weinhardt & Co. (See Niemann, William, assignor.)				
Niemann, William, assignor to Niemann, Weinhardt & Co., Chicago, Ill. Center-table	17,613	Aug. 9	40	580
North, Howard, Yonkers, N. Y., assignor to J. Bromley & Sons, Philadelphia, Pa. Carpet	17,214	Mar. 29	38	1369
Noulett, Michael, New York, N. Y. Lady's collar	17,692	Sept. 6	40	1034
Novelty Manufacturing Company. (See Eastburn, Robert H., assignor.)				
O'Hara Glass Company. (See Lyon, John G., assignor.)				
Olmstead, Chauncey L., West Brookfield, and A. D. Nason, Springfield, Mass. Corset	17,388	June 14	39	1206
Osborne, Arthur, Hyde Park, assignor to J. G. & J. F. Low, Chelsea, Mass. Tile or center-piece	17,385	June 7	39	1088
Osborne, John H., Philadelphia, Pa. Knitted fabric	{ 17,097 14,193 to 17,195 }	Feb. 8	38	545
Osborne, John H., assignor to L. S. Cox, Philadelphia, Pa. Knit fabric		Mar. 15	38	1134
Osborne, Wilbur F., Ansonia, Conn. Suspender-end	17,269	Apr. 19	39	248
Osborne, Wilbur F., Ansonia, Conn. Suspender-strap	17,347	May 17	39	711
Osborne, Wilbur F., Ansonia, Conn. Suspender-end	17,362	May 31	39	964
Osterhorn, Robert, St. Louis, Mo. Pulley	17,187	Mar. 15	38	1134
Palmenberg, Joseph R., New York, N. Y. Hat-rack	17,098	Feb. 8	38	545
Palmenberg, Joseph R., New York, N. Y. Hat-rack	17,676	Aug. 30	40	922
Palmer, Henry L., Brooklyn, N. Y. Ornamentation of sheet metal	17,472	July 19	40	250
Palmer Manufacturing Company. (See Pfitzner, William M., assignor.)				
Park, Frederic J., Wheeling, W. Va. Bottle	17,215	Mar. 29	38	1369
Parmelee, Homer, assignor to Bartlett, Hayward & Co., Baltimore, Md. Steam-radiator	17,614	Aug. 9	40	580
Patitz, Albert, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Harp for hanging lamps	17,876	Nov. 8	41	581
Patitz, Albert, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Harp for hanging lamps	17,881	Nov. 15	41	700
Patitz, Albert, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Hanging-lamp fixture	17,927	Dec. 6	41	1046
Peak, William N., Brooklyn, N. Y. Wall-paper	17,076	Jan. 25	38	334
Peckham, Merritt. (See Galbraith, Robert, assignor.)				
Peet, William C., assignor to J. L. Mott Iron Works, New York, N. Y. Water-closet bowl	17,159	Mar. 1	38	902
Peet, William C., assignor to J. L. Mott Iron Works, New York, N. Y. Earthenware bath-tub	17,410	June 21	39	1330
Pegel, Julius, Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	{ 17,099 17,100 }	Feb. 8	38	546
Pegel, Julius, Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	17,141	Feb. 22	38	786
Pegel, Julius, Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	17,160	Mar. 1	38	902
Pegel, Julius, Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	{ 17,473 to 17,475 }	July 19	40	250
Pegel, Julius, Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	17,491	July 26	40	350
Pegel, Julius, Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	17,636	Aug. 16	40	698
Pegel, Julius, Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	17,653	Aug. 23	40	814
Pegel, Julius, Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	{ 17,989 to 17,992 }	Dec. 27	41	1394
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	17,118	Feb. 15	38	664
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	{ 17,174 17,175 }	Mar. 8	38	1019
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	17,196	Mar. 15	38	1134

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Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug.....	{ 17,900 } 17,901	Nov. 22	41	820
Petzold, William R., Baltimore, Md. Bottle.....	17,119	Feb. 15	38	664
Pfitzner, William M., Brooklyn, N. Y. Flower-stand.....	17,205	Mar. 22	38	1252
Pfitzner, William M., Brooklyn, N. Y. Plaque.....	{ 17,216 } 17,217	Mar. 29	38	1369
Pfitzner, William M., Brooklyn, assignor to Palmer Manufacturing Company, New York, N. Y. Plaque.....	17,065	Jan. 11	38	110
Pierce, John B., and J. Bond, Buffalo, N. Y. Ornamentation of radiators.....	17,615	Aug. 9	40	580
Pinkus, Frederick S., New York, N. Y. Fabric.....	17,993	Dec. 27	41	1394
Pistorius, Henry A., assignor to Towle Manufacturing Company, Newburyport, Mass. Handle for spoons, forks, &c.....	17,756	Sept. 27	40	1344
Pistorius, Henry A., assignor to Towle Manufacturing Company, Newburyport, Mass. Handle for spoons, forks, &c.....	17,783	Oct. 11	41	128
Podmore, Henry, Trenton, N. J. Slop-jar.....	17,634	Aug. 16	40	698
Podmore, Henry, Trenton, N. J. Pitcher.....	17,635	Aug. 16	40	698
Poole, Edward, Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,309 } to 17,316	May 3	39	472
Poole, Edward, Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,826 } to 17,829	Oct. 25	41	358
Powell, Thomas W., Fort Worth, Tex. Bottle.....	17,700	Sept. 6	40	1034
Prang Educational Company. (See Clark, John S., assignor.)				
Pratt, Bela L., Salem, Conn. Statuette.....	17,854	Nov. 1	41	469
Pratt, Robert H., New York, N. Y. Wall-paper.....	{ 17,671 } to 17,674	Aug. 30	40	922
Prentice, Leon H., Waukegan, Ill. Radiator.....	17,270	Apr. 19	39	248
Price, Henry, Kenton, Ohio. Badge or jewelry.....	17,054	Jan. 4	38	2
Price, John A., Scranton, Pa. Stove-rail.....	17,101	Feb. 8	38	546
Price, John A., Scranton, Pa. Cooking-stove.....	17,430	July 5	40	2
Price, John A., Scranton, Pa. Heating-stove.....	17,720	Sept. 13	40	1140
Proeger, Julius, assignor to McKee & Brothers, Pittsburg, Pa. Table-ware.....	17,675	Aug. 30	40	922
Provost, Charles H., Brooklyn, N. Y. Wall-paper.....	17,476	July 19	40	250
Putnam, Edwin, Newark, N. J., and J. Kirschbaum, Waterbury, Conn. Holder for cigar-ashes, &c.....	17,296	May 3	39	472
Rapp, Frederick, Chicago, Ill. Watch-case.....	17,109	Feb. 8	38	546
Rapp, Frederick, Chicago, Ill. Watch-case.....	17,284	Apr. 26	39	366
Rapp, Frederick, Chicago, Ill. Watch-case.....	{ 17,348 } 17,349	May 17	39	711
Rapp, Frederick, Chicago, Ill. Watch-case.....	17,616	Aug. 9	40	580
Rappleyea, Nicholas, assignor to Stein Manufacturing Company, Rochester, N. Y. Burial-casket.....	17,760	Oct. 4	41	2
Rappleyea, Nicholas, assignor to Stein Manufacturing Company, Rochester, N. Y. Burial-casket.....	17,784	Oct. 11	41	128
Read Carpet Company. (See Webster, John T., assignor.)				
Redway & Burton. (See Martens, John F., assignor.)				
Reiffenstein, John, assignor to Syracuse Stove Company, Syracuse, N. Y. Stove or range.....	{ 17,120 } 17,121	Feb. 15	38	664
Reiffenstein, John, assignor to Syracuse Stove Company, Syracuse, N. Y. Heating-stove.....	17,830	Oct. 25	41	358
Reiffenstein, John E., assignor to Garlick Process Heating Company, Syracuse, N. Y. Heating-stove.....	17,693	Sept. 6	40	1034
Rendtorff, Hermann. (See Johnson, Thomas, assignor.)				
Reshower, Joseph, and A. Heck, New York, N. Y. Banner-rod.....	17,877	Nov. 8	41	581
Resor & Co., William. (See Resor, Isaac B., assignor.)				
Resor, Isaac B., assignor to W. Resor & Co., Cincinnati, Ohio. Heating-stove.....	17,354	May 24	39	835
Rex, Alfred C., Philadelphia, Pa. Box.....	17,394	June 14	39	1206
Richards, Francis H., Springfield, Mass. Heel-plate.....	17,431	July 5	40	2
Rider, Lewis J., assignor of one-half to F. A. Follett, Clarkston, Mich. Boot or shoe sole protector.....	17,449	July 12	40	122
Righter, Oscar, assignor to Dornan Brothers, Philadelphia, Pa. Carpet.....	{ 17,492 } to 17,500	July 26	40	350
Righter, Oscar, assignor to Dornan Brothers, Philadelphia, Pa. Carpet.....	17,654	Aug. 23	40	814
Righter, Oscar, assignor to Dornan Bros., Philadelphia, Pa. Carpet.....	{ 17,721 } to 17,723	Sept. 13	40	1140
Ripley, Daniel C., Pittsburg, Pa. Bottle.....	17,243	Apr. 5	39	2
Robinson, Louis, Montreal, Quebec, Canada. Detachable collar.....	17,188	Mar. 15	38	1134
Rogers & Bros., C. (See Ely, Frank S., assignor.)				
Rogers & Hamilton Company. (See Hayden, Hiram W., assignor.)				
Rogers, John, New Canaan, Conn. Group of statuary.....	17,102	Feb. 8	38	546
Rogers, John, New Canaan, Conn. Group of statuary.....	17,363	May 31	39	964
Rohlf, Charles, Brooklyn, N. Y., assignor to A. A. Griffing Iron Company, Jersey City, N. J. Hot-closet steam-radiator.....	17,197	Mar. 15	38	1134
Rosenbaum, Henry, New York, N. Y. Ornamentation of a shirt-front.....	17,297	May 3	39	472
Rosenblüh, Sigmund, New York, N. Y. Shelf-paper.....	17,840	Oct. 25	41	358
Rosenthal, Herman, New York, N. Y. Trimming.....	17,189	Mar. 15	38	1134
Rowe, Alfred L., St. Louis, Mo., assignor to Mississippi Glass Company, of Missouri. Sheet-glass.....	{ 17,734 } to 17,737	Sept. 20	40	1246
Roys, Elizabeth, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's wrap.....	17,694	Sept. 6	40	1034
Roys, Lizzie, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's coat.....	17,855	Nov. 1	41	470
Rubber and Celluloid Harness Trimming Company. (See Livingston, Francis M., assignor.)				
Rugen, Frederick A., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	17,206	Mar. 22	38	1252
Rugen, Frederick A., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	17,450	July 12	40	122
Russell & Erwin Manufacturing Company. (See Christesen, Rodolphe W. E., assignor.)				
Ruthven, Edwin C., Philadelphia, Pa., assignor to D. W. Bruce, New York, N. Y. Printing-type.....	17,176	Mar. 8	38	1019
Sagendorph, Longley L., assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Siding for buildings.....	17,235	Apr. 5	39	1
Sampson, Edward C. (See Meyer, Charles T. and V. E., assignors)				
Samuel, Edward. (See Wharton and Samuel.)				
Sargent & Co. (See Stevens, William E., assignor.)				
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,271 } to 17,274	Apr. 19	39	248

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Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	17,317	May 3	39	472
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	17,377	June 7	39	1088
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	{ 17,936 } 17,937	Dec. 6	41	1046
Savage, J. B. (See Deeble, John, assignor.)				
Sayers, William E., New York, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	{ 17,662 } 17,663	Aug. 23	40	814
Schickel, William, assignor to Tuttle & Bailey Manufacturing Company, New York, N. Y. Hot-air-register front	17,411	June 21	39	1330
Schmidt, Christian A. (See Steinecke, Samuel, assignor.)				
Schmidt, Frederick, assignor to F. M. Whiting & Co., Attleborough, Mass. Spoon	17,749	Sept. 27	40	1344
Schofield, Mason & Co. (See Allen, Frank, assignor.)				
Schofield, Mason & Co. (See Hill, Eugene H., assignor.)				
Schofield, Mason & Co. (See Meagher, Thomas E., assignor.)				
Schraubstadter, Carl, Jr., St. Louis, Mo. Font of printing-type	17,350	May 17	39	711
Schuerman, Henry, Jr., Carrollton, Ky. Bedstead	17,804	Oct. 18	41	238
Schumann, Charles W., New York, N. Y. Scarf-pin or brooch	17,123	Feb. 15	38	664
Schumann, Charles W., New York, N. Y. Box	17,351	May 17	39	711
Seifert, Frank A., St. Louis, Mo. Heating-stove	17,575	Aug. 2	40	450
Seipelt, Fridrich, New York, N. Y. Lamp-standard	17,161	Mar. 1	38	902
Seymour, William S., assignor to Z. G. Simmons, Kenosha, Wis. Frame for wire mattresses	17,055	Jan. 4	38	2
Sharp, James L., New York, N. Y. Gas-stove	17,638	Aug. 16	40	698
Sharp & Son, W. L. (See Gobeille and Matzen, assignors.)				
Sheils, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume	17,750	Sept. 27	40	1344
Sheils, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume	17,856	Nov. 1	41	470
Sheils, Jennie, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Walking-skirt	17,695	Sept. 6	40	1034
Sheils, Jennie, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's basque	17,751	Sept. 27	40	1344
Sheils, Jennie, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	{ 17,857 } 17,858	Nov. 1	41	470
Sheils, Jennie, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's walking-skirt	17,882	Nov. 15	41	700
Sheils, Jennie, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	17,883	Nov. 15	41	700
Sheils, Jennie, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	17,917	Nov. 29	41	938
Sheils, Jennie, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	17,949	Dec. 13	41	1168
Sheils, Jennie, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	17,976	Dec. 20	41	1275
Shepard, Charles G., <i>et al.</i> (See Adams, Peter, assignor.)				
Shepard, Charles G., and P. Adams; said Adams assignor to W. J. Shepard, Buffalo, N. Y. Toy savings-bank	17,103	Feb. 8	38	546
Shepard, Walter J., <i>et al.</i> (See Adams, Peter, assignor.)				
Shepard, Walter J. (See Shepard and Adams, assignors.)				
Sheridan, P. H., trustee. (See Keyser, Peter D., assignor.)				
Shinn, Thornton A., Coolbaugh's, Pa. Chain-link	17,364	May 31	39	964
Shinn, Thornton A., Coolbaugh's, Pa. Chain-link	17,378	June 7	39	1088
Shoeninger, Adolph. (See Unzicker, Otto, assignor.)				
Siedentop, Henry, Jersey City, N. J. Fringe	17,805	Oct. 18	41	238
Simmons, Zalmon G. (See Seymour, William S., assignor.)				
Singer Manufacturing Company of New Jersey. (See Miller, Lebbeus B., assignor.)				
Slater, John, Burslem, county of Stafford, England. Dishes	17,859	Nov. 1	41	470
Smith, Charles B., Fitchburg, Mass. Fabric	17,178	Mar. 8	38	1019
Smith, Charles B., Fitchburg, Mass. Fabric	17,244	Apr. 5	39	2
Smith, Henry G., Hutchinson, Kans. Desk-furniture	17,352	May 17	39	711
Smith, Holmes, St. Louis, Mo. Cooking-stove	15,576	Aug. 2	40	450
Smith, Holmes, St. Louis, Mo. Heating-stove	{ 17,577 } to 17,579	Aug. 2	40	450
Smith, James G., Cleveland, Ohio. Heating-stove	17,884	Nov. 15	41	700
Smith, Mark A., and C. F. Yaeger, Evansville, Ind. Broom-shield	17,177	Mar. 8	38	1019
Snook, Charles W., New York, N. Y. Calendar	17,379	June 7	39	1088
Snow, Andrew, Jr., New Bedford, Mass. Ornamentation of glassware	17,380	June 7	39	1088
Speck, James G., assignor to Ivins, Dietz & Magee, Philadelphia, Pa. Carpet	{ 17,416 } to 17,418	June 28	39	1430
Speck, James G., assignor to Ivins, Dietz & Magee, Philadelphia, Pa. Carpet	{ 17,655 } to 17,661	Aug. 23	40	814
Spring, John, High Bridge, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	17,785	Oct. 11	41	128
Stanton, Edwin J., assignor to Towle Manufacturing Company, Newburyport, Mass. Handle for spoons, forks, &c	17,637	Aug. 16	40	698
Stark, William F., New York, N. Y. Font of numerals	17,831	Oct. 25	41	358
Stead & Miller. (See Ferguson, Joseph, assignor.)				
Stein, Leo, assignor to Stein Manufacturing Company, Rochester, N. Y. Burial-casket lid	17,218	Mar. 29	38	1369
Stein, Leo, assignor to Stein Manufacturing Company, Rochester, N. Y. Burial-casket lid	17,227	Mar. 29	38	1370
Stein, Leo, assignor to Stein Manufacturing Company, Rochester, N. Y. Burial-casket lid	17,245	Apr. 5	39	2
Stein, Leo, assignor to Stein Manufacturing Company, Rochester, N. Y. Burial-casket	17,928	Dec. 6	41	1046
Stein Manufacturing Company. (See Rappleyea, Nicholas, assignor.)				
Stein Manufacturing Company. (See Stein, Leo, assignor.)				
Steinecke, Samuel, Brooklyn, N. Y., assignor to C. A. Schmidt, Hoboken, N. J. Trimming	17,841	Oct. 25	41	358
Sterrett, Frank M., St. Louis, Mo. Bottle	17,381	June 7	39	1088
Stevens, Samuel M., Terre Haute, Ind. Button-badge	17,389	June 14	39	1206
Stevens, William E., assignor to Sargent & Co., New Haven, Conn. Coffin ornament	17,142	Feb. 22	38	786
Stinson, William H., Mount Vernon, N. H. Badge	17,390	June 14	39	1205
Stockstrom, Charles A., assignor of one-half to L. Stockstrom, St. Louis, Mo. Vapor-burner cap	17,752	Sept. 27	40	1344

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Stockstrom, Louis. (See Stockstrom, Charles A., assignor.)				
Story & Clark. (See Hill, Thomas, assignor.)				
Stratton, Wilton A. (See Terstegge, Gohmann, Stratton, and Gohmann.)				
Stucker, Paul, Brooklyn, N. Y. Watch-case.....	17,104	Feb. 8	38	546
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,298 } to { 17,305 }	May 3	39	472
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,318 } to { 17,319 }	May 3	39	472
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,335 } to { 17,337 }	May 10	39	592
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	17,382	June 7	39	1088
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,580 } to { 17,586 }	Aug. 2	40	450
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,617 } to { 17,620 }	Aug. 9	40	580
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 17,724 } to { 17,726 }	Sept. 13	40	1140
Swett, George W., Lansingburg, assignor to Swett, Quimby & Co., Troy, N. Y. Oil-stove.....	17,391	June 14	39	1206
Swett, Quimby & Co. (See Swett, George W., assignor.)				
Syracuse Stove Company. (See Reiffenstein, John, assignor.)				
Taylor, Henry E. (See Bailey, Charles A., assignor.)				
Terhune, John, assignor to A. C. McClurg & Co., Chicago, Ill. Ornamentation of album-covers....	17,285	Apr. 26	39	366
Terstegge, Henry, F. H. Gohmann, New Albany, Ind., W. A. Stratton, Louisville, Ky., and R. H. Gohmann, New Albany, Ind. Stove.....	17,257	Apr. 12	39	124
Tew, George D., Brooklyn, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet....	17,753	Sept. 27	40	1344
Thain, John M., New York, N. Y. Boot-jack.....	17,392	June 14	39	1206
Thiem, Rudolph. (See Kahn and Thiem.)				
Thompson, Charles E., Lansingburg, N. Y. Brush.....	17,282	Apr. 26	39	366
Thompson, Charles E., Lansingburg, N. Y. Brush.....	17,383	June 7	39	1088
Thompson, Charles E., Lansingburg, N. Y. Brush.....	17,786	Oct. 11	41	128
Tiffany & Co. (See Grosjean, Charles T., assignor.)				
Tiebout, John, Brooklyn, N. Y. Hinge.....	17,084	Feb. 1	38	421
Tingue, Edward W., assignor to Tingue Manufacturing Company, Seymour, Conn. Piled fabric....	17,451	July 12	40	122
Tingue Manufacturing Company. (See Tingue, Edward W., assignor.)				
Tomey, William H., assignor to Armington Art Metal Company, Providence, R. I. Frame.....	17,787	Oct. 11	41	128
Torrance, Francis J., Pittsburg, Pa. Bath-tub.....	17,902	Nov. 22	41	820
Torrance, Francis J., Pittsburg, Pa. Wash-stand.....	17,950	Dec. 13	41	1168
Towle Manufacturing Company. (See Pistorius, Henry A., assignor.)				
Towle Manufacturing Company. (See Stanton, Edwin J., assignor.)				
Tucker, Charles A., Brooklyn, N. Y. Collar-button.....	17,477	July 19	40	250
Tucker, Charles A., Islip, N. Y., assignor to Tucker Electrical Manufacturing Company, of New York. Portable electric-bell stand.....	17,994	Dec. 27	41	1394
Tucker Electrical Manufacturing Company. (See Tucker, Charles A., assignor.)				
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Miss's costume.....	17,754	Sept. 27	40	1344
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume.....	17,860	Nov. 1	41	470
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Miss's costume.....	17,861	Nov. 1	41	470
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's polonaise.....	17,885	Nov. 15	41	700
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's walking-skirt.....	17,886	Nov. 15	41	700
Turner, Samuel H., Buckhannon, W. Va. Bed-spring.....	17,951	Dec. 13	41	1168
Tuttle & Bailey Manufacturing Company. (See Schickel, William, assignor.)				
Tuttle, Silas, Jr., Brooklyn, N. Y. Hot-air-register front.....	17,639	Aug. 16	40	698
Twyford, Thomas W., Hanley, county of Stafford, England. Water-closet basin.....	17,432	July 5	40	2
Unzicker, Otto, Chicago, assignor to A. Shoeninger, Lake View, Ill. Sleigh-body.....	17,275	Apr. 19	39	248
Valentine, Lucy W., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet....	17,320	May 3	39	472
Village, Thomas, assignor to Lockwood Manufacturing Company, South Norwalk, Conn. Door-knob or bell-pull.....	17,207	Mar. 22	38	1252
Votey, Edwin S., Detroit, Mich. Organ-case.....	17,952	Dec. 13	41	1168
Walden, Isaac P., St. Louis, Mo. Wagon-body.....	17,276	Apr. 19	39	248
Ward, Eugene, Newark, N. J. Bridle-front.....	17,122	Feb. 15	38	664
Ward, George G., Brooklyn, N. Y. Ornamentation of letter-heads, &c.....	17,977	Dec. 20	41	1275
Warner, Francis B., Philadelphia, Pa. Bottle.....	17,640	Aug. 16	40	698
Warner, Hulbert H., Rochester, N. Y. Bottle.....	17,696	Sept. 6	40	1034
Warren, Lange & Co. (See Mellinger, Michel, assignor.)				
Warren, Lange & Co. (See Wheeler, Candace, assignor.)				
Watkins, Frank M., assignor of one-half to J. T. Weighell, Cincinnati, Ohio. Frame for starching-machines.....	17,105	Feb. 8	38	546
Webb, Joseph, Phillipsburg, Pa. Table vessel or dish.....	17,664	Aug. 23	40	814
Webster, John T., Flushing, N. Y. Carpet.....	{ 17,454 } to { 17,455 }	July 12	40	122
Webster, John T., Flushing, N. Y., assignor to Read Carpet Company, Bridgeport, Conn. Carpet.....	{ 17,452 } to { 17,453 }	July 12	40	122
Weighell, John T. (See Watkins, Frank M., assignor.)				
Weiss, Albert, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug.....	{ 17,903 } to { 17,904 }	Nov. 22	41	820
Wells, Frank A., Allegheny, Pa. Sink-standard.....	17,832	Oct. 25	41	358
Wendell, Emanuel V., Chicago, Ill. Watch-case.....	17,433	July 5	40	2
Wenter, Frank. (See Hertwig, Theodore, assignor.)				
West, John, Brooklyn, N. Y., assignor to Manhattan Type Foundry, of New York. Font of printing-type.....	17,353	May 17	39	711
West, John, Brooklyn, N. Y., assignor to Manhattan Type Foundry, of New York. Font of combination type ornaments.....	17,359	May 24	39	836
Wharton & Co., William, Jr. (See Wharton and Samuel, assignors.)				
Wharton, William, Jr., and E. Samuel, assignors to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Railway-rail.....	{ 17,190 } to { 17,191 }	Mar. 15	38	1134

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette.	
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Wharton, William, Jr., and E. Samuel, assignors to W. Wharton, Jr., & Company, Philadelphia, Pa. Railway-rail	17,365	May 31	39	964
Wharton, William, Jr., and E. Samuel, assignor to W. Wharton, Jr., & Company, Philadelphia, Pa. Railway-rail	17,384	June 7	39	1088
Wheeler, Candace, New York, N. Y. Curtain fabric	{ 17,228 } 17,229	Mar. 29	38	1370
Wheeler, Candace, assignor to Warren, Lange & Co., New York, N. Y. Wall-paper	17,755	Sept. 27	40	1344
Wheeler, Nathaniel, Bridgeport, Conn. Sewing-machine cabinet	17,905	Nov. 22	41	820
Whipple, Joseph H., Battle Creek, Mich. Hood	{ 17,246 } 17,247	Apr. 5	39	2
White, Charles R., Portland, Me. Wash-brush body	17,230	Mar. 29	38	1370
Whiting & Co., F. M. (See Schmidt, Frederick, assignor.)				
Whitmarsh, Henry C., Brooklyn, assignor to C. C. Carpenter, New York, N. Y. Suspenders	17,085	Feb. 1	38	421
Wilbur, George E., Taunton, Mass. Cooking stove or range	17,071	Jan. 18	38	234
Wilkinson, Walter, assignor to Gorham Manufacturing Company, Providence, R. I. Ornamentation for the handles of spoons, &c	17,277	Apr. 19	39	248
Wilkinson, William H., assignor to Co-operative Foundry Company, Rochester, N. Y. Heating-stove	17,978	Dec. 20	41	1275
Wilks, Walter L. (See Klingel and Wilks.)				
Windsor Glass Company. (See Franz, Henry, assignor.)				
Wishart, Joseph, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	{ 17,788 } to 17,790	Oct. 11	41	128
Wishart, Joseph, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	17,862	Nov. 1	41	470
Wishart, Joseph, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	17,929	Dec. 6	41	1046
Witteck, Charles, assignor to Wood & Hughes, New York, N. Y. Spoon, &c	17,248	Apr. 5	39	2
Wolfe, Gurdon G., assignor to Fuller & Warren Company, Troy, N. Y. Stove-top ornament	17,208	Mar. 22	38	1252
Wolfe, Gurdon G., assignor to Fuller & Warren Company, Troy, N. Y. Fire-place heater	17,209	Mar. 22	38	1252
Wolfe, Gurdon G., assignor to Fuller & Warren Company, Troy, N. Y. Parlor-stove	17,219	Mar. 29	38	1369
Wolfe, Gurdon G., assignor to Fuller & Warren Company, Troy, N. Y. Parlor-stove	17,236	Apr. 5	39	2
Wollensak, John F., Chicago, Ill. Railing-bracket	17,395	June 14	39	1206
Wood & Hughes. (See Witteck, Charles, assignor.)				
Wood, James, Pittsburg, Pa. Ornamentation of sheet metal	17,621	Aug. 9	40	580
Wright, Edmund, <i>et al.</i> (See Howell and Anderson, assignors.)				
Wright, George C., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	{ 17,833 } to 17,835	Oct. 25	41	358
Wright, John, Hoosick Falls, N. Y. Whisk-broom handle	17,425	June 28	39	1430
Wright, John, Hoosick Falls, N. Y. Gas-bracket	17,863	Nov. 1	41	470
Wright, Joseph, <i>et al.</i> (See Howell and Anderson, assignors.)				
Wright, William C., Amsterdam, N. Y. Card-receiver	17,761	Oct. 4	41	2
Wright, William C., Amsterdam, N. Y. Whisk-broom holder	17,836	Oct. 25	41	358
Yaeger, Charles F. (See Smith and Yaeger.)				

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Volume.	Page.
Abbot, Josiah H., New York, N. Y. Wheat-flour.....	15,060	Dec. 27	41	1394
Abegg, Daeniker & Co., New York, N. Y. Gloves.....	14,111	Mar. 1	38	902
Abegg, Daeniker & Co., New York, N. Y. Ribbons.....	14,993	Dec. 6	41	1046
Acme Chemical Co., Detroit, Mich. Cream for the skin and complexion.....	14,339	May 3	39	472
Acme Lubricator Co., Detroit, Mich. Sight-feed lubricators.....	14,578	July 12	40	122
Acme White Lead and Color Works, Detroit, Mich. Prepared paint ready for use.....	14,649	Aug. 2	40	450
Adams & Sons, Brooklyn, N. Y. Chewing-gum.....	14,677	Aug. 16	40	698
Adams, Taylor & Co., Boston, Mass. Whisky.....	14,695	Aug. 23	40	814
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper.....	14,859	Nov. 1	41	470
Alcock, Frederick W., Paterson, N. J. Broad silks and ribbons.....	14,147	Mar. 8	38	1020
Allen & Co., Samuel L., Philadelphia, Pa. Agricultural implements.....	14,860	Nov. 1	41	470
Allen, George H., Clinton, N. Y. Furniture-polish.....	14,482	June 7	39	1088
Allis & Co., Edward P., Milwaukee, Wis. Mills, machinery, steam-engines, and mill and engine supplies.....	14,423	May 24	39	836
Allones, Ramon, Havana, Cuba. Cigars.....	14,137	Mar. 8	38	1020
Altman & Bro., B., New York, N. Y. Fur hats and caps.....	14,326	Apr. 26	39	366
American Printing Company, Fall River, Mass. Calico goods.....	14,199	Mar. 29	38	1370
American Saw Company, New York, N. Y., and Trenton, N. J. Wrenches.....	14,524	June 21	39	1330
Apollinaris Company, (limited,) London, England. Natural mineral-spring water.....	14,545	June 28	39	1430
Apollinaris Company, (limited,) London, England. Natural mineral-spring water.....	14,546	June 28	39	1430
Apollinaris Company, (limited,) London, England. Natural mineral-spring water.....	14,547	June 28	39	1430
Apollinaris Company, (limited,) London, England. Natural and artificial mineral waters, their salts, and medicinal preparations, dry and liquid, containing said waters or salts.....	14,548	June 28	39	1430
Apollinaris Company, (limited,) London, England. Mineral-spring water.....	14,549	June 28	39	1430
Apollinaris Company, (limited,) London, England. Natural and artificial mineral waters, their salts, and medicinal preparations, dry and liquid, containing said waters or salts.....	14,550	June 28	39	1430
Apollinaris Company, (limited,) London, England. Natural mineral water.....	14,970	Nov. 29	41	938
Apollinaris Company, (limited,) London, England. Natural mineral water.....	14,971	Nov. 29	41	938
Apollinaris Company, (limited,) London, England. Mineral water.....	14,972	Nov. 29	41	938
Apollinaris Company, (limited,) London, England. Natural mineral water.....	15,005	Dec. 6	41	1046
Apollinaris Company, (limited,) London, England. Natural mineral water, its salts and constituents, and all compounds containing said water, salts, or constituents.....	15,006	Dec. 6	41	1046
Arabian Spavin Cure Co., Spencer, Mass. Liviment.....	14,378	May 17	39	712
Arlington Collar and Cuff Company, New York, N. Y. Celluloid collars and cuffs.....	14,012	Feb. 1	38	421
Arming & Co., Francis M., New York, N. Y. Wheat-flour.....	14,503	June 14	39	1206
Armstrong Manufacturing Company, Bridgeport, Conn. Suspenders, garters, and armlets.....	14,079	Feb. 15	38	664
Arnica-boline Company, Milwaukee, Wis. Salves, ointments, washes, and detergents.....	14,551	June 28	39	1430
Arnold, Charles M., Philadelphia, Pa. Certain-named medical remedies.....	14,424	May 24	39	836
Arnold & Co., F. R., New York, N. Y. Perfumery.....	14,185	Mar. 22	38	1252
Arnold Print Works, North Adams, Mass. Cotton cloth.....	14,425	May 24	39	836
Arnold Print Works, North Adams, Mass. Prints and cotton piece goods.....	15,047	Dec. 20	41	1276
Arnold Print Works, North Adams, Mass. Prints and cotton piece goods.....	15,048	Dec. 20	41	1276
Ascough, Jesse, Handsworth, near Birmingham, county of Stafford, England. Chemical substances for agricultural and horticultural purposes, dog and sheep washes and preparations for destroying parasites, disinfectants, and antiseptics.....	14,746	Sept. 13	40	1140
Ascough, Jesse, Handsworth, near Birmingham, county of Stafford, England. Laundry-blue, detergents, and starch.....	14,747	Sept. 13	40	1140
Ashley, A. Davis, New Bedford, Mass. Ointment for the treatment of horses and cattle.....	14,552	June 28	39	1430
Aspden, Thomas, London, Ontario, Canada. Acid phosphate.....	14,483	June 7	39	1088
Atkinson, J. & E., London, England. Certain toilet preparations and articles.....	14,748	Sept. 13	40	1140
Atkinson, J. & E., London, England. Certain toilet preparations and articles.....	14,749	Sept. 13	40	1140
Atkinson, J. & E., London, England. Certain toilet preparations and articles.....	14,750	Sept. 13	40	1140
Atkinson, J. & E., London, England. Certain toilet preparations and articles.....	14,751	Sept. 13	40	1140
Aultman, Miller & Company, Akron, Ohio. Binder-twine.....	14,847	Oct. 25	41	358
Avenarius Brothers, Gausalgesheim, Germany. Preservative liquids.....	14,048	Feb. 8	38	546
Ayer Company, J. C., Lowell, Mass. Medicines for pulmonary and throat diseases.....	14,526	June 21	39	1330
Ayer Company, J. C., Lowell, Mass. Proprietary medicines containing sarsaparilla.....	14,527	June 21	39	1330
Ayer Company, J. C., Lowell, Mass. Proprietary medicines for malarial diseases.....	14,528	June 21	39	1330
Ayer Company, J. C., Lowell, Mass. Preparation for the hair.....	14,566	July 5	40	2
Ayer, Harriet H., New York, N. Y. Tonic medical compound.....	14,525	June 21	39	1330
Ayres & Sons, William, Philadelphia, Pa. Horse-blankets.....	14,696	Aug. 23	40	814
Ayres & Sons, William, Philadelphia, Pa. Horse-blankets and horse-sheets.....	14,722	Sept. 6	40	1034
Bach, Henry, New York, N. Y. Men's, boys', youths', and children's outside garments.....	14,379	May 17	39	712
Badger State Bottling Co., Watertown, Wis. Carbonated bottled beverages.....	13,960	Jan. 11	38	110
Bailey & Co., C. R., Freeport, Ill. Face-powder.....	14,327	Apr. 26	39	366
Bailly, Paul. (See Roussel and Bailly.)				
Baker & Co., Philadelphia, Pa. Tetter ointment.....	14,814	Oct. 11	41	128
Baker, Frank G., Chicago, Ill. Articles for cleaning and polishing metal.....	13,983	Jan. 18	38	234
Ballantine, Joseph W., Somerville, N. J. Clothing and gentlemen's furnishing goods.....	14,553	June 28	39	1430
Barker & Company, (limited,) C. B., New York, N. Y. Scissors, razors, pocket-knives, and table-knives.....	14,227	Apr. 5	39	2
Barnes & Co., A. C., Westfield, Mass. Rawhide whips and whip-lashes.....	14,096	Feb. 22	38	786
Barnes Whip Company, A. C., Westfield, Mass. Carriage-whips.....	14,948	Nov. 22	41	820
Baron, Bernhard, Baltimore, Md. Cigars and cigarettes.....	14,600	July 19	40	250
Baron, Bernhard, Baltimore, Md. Cigars, cigarettes, and tobacco.....	14,973	Nov. 29	41	938
Baron, Charles, Brooklyn, N. Y. Polish for wood-work.....	13,952	Jan. 4	38	2
Barrow, Harriet B., New York, N. Y. Preserved fruits, cordials, and sauce.....	14,138	Mar. 8	38	1020
Barton, Joseph K., New York, N. Y. Corrugated steel box-bands.....	14,163	Mar. 15	38	1134
Bates, Frederick W., Brooks' Bar, Manchester, county of Lancaster, England. Preparation for keeping the hair in curl.....	14,894	Nov. 8	41	582
Bauman, Henry R., Washington, Mo. Medicine for hemorrhoids or piles.....	14,678	Aug. 16	40	698

Alphabetical list of registrants of trade-marks—Continued.

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Baumer, Francis, Syracuse, N. Y. Wax candles.....	14,592	July 12	40	122
Beach & Clarridge, Boston, Mass. Cider.....	14,949	Nov. 22	41	820
Beals, Augustus, Weymouth, Mass. Woven Hammocks.....	14,848	Oct. 25	41	358
Beck & Co., W. E., Vicksburg, Miss. Phosphate sherbet.....	14,650	Aug. 2	40	450
Beckel & Co., Joseph, New York, N. Y. Corsets.....	14,895	Nov. 8	41	582
Becker & Leonard, Leadville, Colo. Harness and saddles, chaperejos, saddle-bags, fenders, housings, bridles, and horse-blankets.....	14,994	Dec. 6	41	1046
Beddow & Sons, Benjamin, London, England. Preparations for cleaning and polishing leather and metal goods.....	14,529	June 21	39	1330
Beecham, Thomas, St. Helen's, county of Lancaster, England. Pills.....	14,689	Aug. 23	40	814
Beers, Charles H., New York, N. Y. Cosmetics.....	14,085	Feb. 22	38	786
Behrens & Sons, Jacob, Bradford and Manchester, England. Woolens, worsteds, overcoatings, cloakings, and dress goods.....	14,723	Sept. 6	40	1034
Belden, Alfred G., New York, N. Y. Lubricating oils and compounds.....	14,680	Aug. 16	40	698
Bell, Conrad & Co., Chicago, Ill. Japan tea.....	14,690	Aug. 23	40	814
Bell, William H., New York, N. Y. Remedy for rheumatism.....	14,426	May 24	39	836
Bellville, William J., London, England. Mustard.....	14,371	May 10	39	592
Bemis Bro. Bag Company, St. Louis, Mo., and Minneapolis, Minn. Flour-bags.....	14,849	Oct. 25	41	358
Bennett, Day & Co., New York, N. Y. Nuts.....	14,776	Sept. 27	40	1344
Bennett, Day & Co., New York, N. Y. Nuts.....	14,995	Dec. 6	41	1046
Bentley, Charles E., New York, N. Y. Embroidery threads, cords, or braids.....	14,833	Oct. 18	41	238
Besson & Co., F., London, England. Wind musical instruments.....	14,724	Sept. 6	40	1034
Best Brewing Company, Phillip, Milwaukee, Wis. Tonic preparation based on extracts of malt and hops.....	14,283	Apr. 12	39	124
Best Brewing Company, Phillip, Milwaukee, Wis. Tonic preparation based on extracts of malt and hops.....	14,311	Apr. 19	39	248
Best Brewing Company, Phillip, Milwaukee, Wis. Tonic beverage.....	14,896	Nov. 8	41	582
Billups, Cealy, Norfolk, Va. Plows.....	14,363	May 10	39	592
Binet, Fils & Cie., Veuve, Reims, France. Champagne-wine.....	14,458	May 31	39	964
Binet, Fils & Cie., Veuve, Reims, France. Champagne-wine.....	14,459	May 31	39	964
Bingham & Co., W., Cleveland, Ohio. Cutlery and edge-tools.....	14,530	June 21	39	1330
Birkin, Thomas I., Nottingham, England, and New York, N. Y. Nottingham lace curtains.....	14,148	Mar. 8	38	1020
Bittner & Co., George C., Toledo, Ohio. Toilet preparation.....	13,953	Jan. 4	38	2
Black, Henry M., Pittsburg, Pa. Champagne.....	14,752	Sept. 13	40	1140
Blair, John C., Huntingdon, Pa. Various articles of stationery.....	13,985	Jan. 18	38	234
Blake & Woodward, Enosburg, Vt. Liniment.....	13,984	Jan. 18	38	234
Blessing, C. A., Philadelphia, Pa. Plumbers' porcelain wares.....	13,961	Jan. 11	38	110
Bliss & Son, Wm., Chipping-Norton, county of Oxford, England. Shawls.....	14,924	Nov. 15	41	700
Bliss & Son, Wm., Chipping-Norton, county of Oxford, England. Tweeds, serges, woolen and worsted coatings, kersey checks, and prince's checks.....	14,950	Nov. 22	41	820
Bliven, Carrington & Co., New York, N. Y. Lubricating-oils.....	14,287	Apr. 19	39	248
Bliven, Carrington & Co., New York, N. Y. Lubricating-oils.....	14,485	June 7	39	1088
Bliven, Carrington & Co., New York, N. Y. Lubricating-oils.....	14,804	Oct. 11	41	128
Bliven, Carrington & Co., New York, N. Y. Lubricating-oils.....	14,861	Nov. 1	41	470
Bloch, Emanuel. (See Bloch, Solomon H., E., and S.)				
Bloch, Samuel. (See Bloch, Solomon H., E., and S.)				
Bloch, Solomon H., E., and S., Cleveland, Ohio. Rye whisky.....	14,149	Mar. 8	38	1020
Blum, Albert, New York, N. Y. Whisky.....	14,427	May 24	39	836
Boardman, Henry M., Ashtabula, Ohio. Medicine for the cure of kidney diseases.....	14,862	Nov. 1	41	470
Boardman, Henry M., Ashtabula, Ohio. Cough-cure.....	15,049	Dec. 20	41	1276
Boker & Co., Hermann, New York, N. Y. Cutlery and scissors.....	14,073	Feb. 15	38	664
Boker & Co., Hermann, New York, N. Y. Table, pocket, and other cutlery and edge-tools.....	14,428	May 24	39	836
Boott Cotton Mills, Lowell, Mass. Shirtings.....	14,679	Aug. 16	40	698
Boott Cotton Mills, Lowell, Mass. Bleached shirtings.....	14,863	Nov. 1	41	470
Boss & Son, C. D., New London, Conn. Crackers, biscuits, and kindred articles.....	14,049	Feb. 8	38	546
Bossange, Gustave, New York, N. Y. Portland cement.....	14,197	Mar. 22	38	1252
Boston and Colorado Smelting Company, Boston, Mass. Ingots of copper.....	14,123	Mar. 8	38	1019
Boston Rubber Company, Boston, Mass. Articles of rubber clothing.....	14,674	Aug. 9	40	580
Boston Rubber Company, Boston, Mass. Rubber clothing.....	14,697	Aug. 23	40	814
Boutell Grocery Company, Ira, St. Louis, Mo., Chicago, Ill., and New York, N. Y. Tea.....	14,974	Nov. 29	41	938
Bowers, Frank K., Baltimore, Md. Cigars.....	14,288	Apr. 19	39	248
Bowers, Frank K., Baltimore, Md. Cigars.....	14,289	Apr. 19	39	248
Bowers, Frank K., Baltimore, Md. Cigars.....	14,290	Apr. 19	39	248
Bowers, Frank K., Baltimore, Md. Cigars.....	14,291	Apr. 19	39	248
Bowers, Frank K., Baltimore, Md. Cigars.....	14,292	Apr. 19	39	248
Boyd, Thaddeus J., Columbus, Ohio. Tonic medicine.....	14,864	Nov. 1	41	470
Bradfield Regulator Company, Atlanta, Ga. Remedies for female disorders.....	13,962	Jan. 11	38	110
Bradfield Regulator Company, Atlanta, Ga. Remedies for female disorders.....	14,150	Mar. 8	38	1020
Bradfield Regulator Company, Atlanta, Ga. Remedies for female use.....	14,151	Mar. 8	38	1020
Bradfield Regulator Company, Atlanta, Ga. Remedies for female use.....	14,152	Mar. 8	38	1020
Bradsworth, John H., Paterson, N. J. Liquid medicinal compounds and pills.....	14,228	Apr. 5	39	2
Bragdon Manufacturing Company, Cape May, N. J. Medicine for the prevention and cure of hog-cholera.....	14,293	Apr. 19	39	248
Bragg, Henry C., Connersville, Ind. Blood-purifying medicines.....	14,504	June 14	39	1206
Brandau, Julius V., Lichtenau, Prussia, Germany. Remedies to prevent abnormal perspiration, applied in the form of a bath.....	14,951	Nov. 22	41	820
Brandeis, Maria M. C., and H. G. Dougherty, Brooklyn, N. Y. Plumbers' stench-traps.....	15,033	Dec. 20	41	1276
Breitenbach, M. J., New York, N. Y. Cough medicine.....	14,531	June 21	39	1330
Brewer & Co., Charles, Boston, Mass. Refined petroleum-oil.....	14,486	June 7	39	1088
Bridgeport Yeast Company, Bridgeport, Conn. Yeast.....	14,013	Feb. 1	38	422
Briggs, M. A., Valdosta, Ga. Pills, liniments, ointments, salves, and liquid and solid medicinal preparations.....	14,631	July 26	40	350
Bristol Bay Canning Company, San Francisco, Cal. Canned fish.....	14,601	July 19	40	250
Bristol Bay Canning Company, San Francisco, Cal. Canned fish.....	14,602	July 19	40	250
Brittain, John. (See Brittain, Joseph, Jr., and J.)				
Brittain, Joseph, Jr., and J., Butler, Pa. Horse-medicines.....	14,153	Mar. 8	38	1020
Bronchocura Company, Youngstown, Ohio. Specific for bronchitis and laryngitis.....	14,725	Sept. 6	40	1034
Brooke & Co., Benjamin, Philadelphia, Pa. Soap and cleansing compositions.....	14,826	Oct. 18	41	238
Brooklyn Watch Case Company, Brooklyn, N. Y. Watch-cases of gold, silver, and other metals and alloys of metal.....	14,014	Feb. 1	38	422
Broome, Hallworth & Foster, Manchester, England. Velvet pile fabric.....	14,314	Apr. 26	39	366
Brower & Co., John, New York, N. Y. Potash.....	14,112	Mar. 1	38	902
Brown, Augustus L., New York, N. Y. Underwear, hose, and half-hose for men, women, and children.....	14,139	Mar. 8	38	1020

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Brown, Benjamin, Minneapolis, Minn. Laundry-starch.....	14,897	Nov. 8	41	582
Brown, Charles C., Birmingham, county of Warwick, England. Saddlery-hardware.....	14,257	Apr. 12	39	124
Brown, Durrell & Co., Boston, Mass. Black hose.....	14,340	May 3	39	472
Brown, James F., Boston, Mass. Felting.....	14,429	May 24	39	836
Bruce, Norris & Co., Philadelphia, Pa. Whisky.....	14,341	May 3	39	472
Brundige, Edward, Chicago, Ill. Water-proof leather-dressing.....	13,939	Jan. 4	38	2
Buchheit Packing Co., Mapledell, Oreg. Canned fish.....	14,777	Sept. 27	40	1344
Budd, John J., New York, N. Y. Fresco material.....	14,603	July 19	40	250
Bullock Manufacturing Company, M. C., Chicago, Ill. Rock-drilling machines.....	14,258	Apr. 12	39	124
Burton, George D., Boston, Mass. Stock-car.....	14,726	Sept. 6	40	1034
Burton, George D., Boston, Mass. Stock-cars.....	14,925	Nov. 15	41	700
Bushnell & Co., D. I., St. Louis, Mo. Indian corn.....	13,998	Jan. 25	38	334
Butler Brothers, Chicago, Ill., and New York, N. Y. Catalogues.....	14,790	Oct. 4	41	2
Butler Hard Rubber Company, Butler, N. J., and New York, N. Y. Hard-rubber goods.....	14,532	June 21	39	1330
Butters & Peters Salt and Lumber Company, Ludington, Mich. Dairy and table salt.....	14,554	June 28	39	1430
Buzby, Augustus C., Philadelphia, Pa. Lubricants for frictional surfaces.....	15,013	Dec. 13	41	1168
Cable, Albert, Pottsville, Pa. Remedies for diseases of the liver, kidneys, stomach, and bowels, tonics, bitters, cough-sirup, liniments, pills, and pile ointment.....	15,014	Dec. 13	41	1168
Cabús, Martin, Omoa and San Pedro, Honduras. Sarsaparilla-root.....	14,284	Apr. 12	39	124
Cady, William, Georgetown, N. Y. Exterminating compounds for destroying hop-grubs.....	14,579	July 12	40	122
Caldwell, Charles P., Lake, Ill. Ointments and salves.....	14,043	Feb. 1	38	422
California Vintage Company, New York, N. Y. Tokay wine.....	13,963	Jan. 11	38	110
Cambridge Manufacturing Company, Cambridge, Md. Food preparation of white corn or maize.....	14,865	Nov. 1	41	470
Cammeyer, Alfred J., New York, N. Y. Boots, shoes, and slippers of all kinds.....	14,952	Nov. 22	41	820
Camp, Daniel W., Union City, Pa. Flour.....	14,791	Oct. 4	41	2
Camp, Daniel W., Union City, Pa. Flour.....	14,866	Nov. 1	41	470
Campbell, James B., Chicago, Ill. Remedy for treating horses' hoofs.....	14,651	Aug. 2	40	450
Candy, Robert and T., Columbus, Ohio. Candy.....	14,533	June 21	39	1330
Candy, Thomas. (See Candy, Robert and T.)				
Canfield Rubber Company, Bridgeport, Conn., and New York, N. Y. Skirt-bands.....	13,999	Jan. 25	38	334
Canfield Rubber Company, Bridgeport, Conn., and New York, N. Y. Diapers.....	14,015	Feb. 1	38	422
Canz, Theodor, Leipsic, Germany. Salves.....	14,868	Nov. 1	41	470
Carbonated Beverage Co., Kansas City, Mo. Artificial mineral water, soda-water, kali-water, and ginger-ale.....	15,007	Dec. 6	41	1046
Cargill & Fall, Houston, Minn. Wheat-flour.....	14,778	Sept. 27	40	1344
Carpenter, Charles C., New York, N. Y. Suspenders or braces.....	13,986	Jan. 18	38	234
Carruthers, Archibald K., Stow, Mass. Certain named medicinal remedies.....	14,753	Sept. 13	40	1140
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. Safety-ink.....	14,867	Nov. 1	41	470
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. Indelible ink.....	14,927	Nov. 15	41	700
Carter, John F., Beverly, Mass. Oil or water-proof clothing.....	14,926	Nov. 15	41	700
Carter White Lead Company, Omaha, Nebr. White lead.....	14,523	June 14	39	1206
Case, Francis B., Norwalk, Ohio. Cut smoking-tobacco.....	14,294	Apr. 19	39	248
Cash, J. & J., New York, N. Y. Ribbons.....	14,097	Feb. 22	38	786
Cash, J. & J., New York, N. Y. Ribbons.....	14,098	Feb. 22	38	786
Cash, J. & J., New York, N. Y. Cambric frillings and embroideries.....	14,328	Apr. 26	39	366
Cash, J. & J., New York, N. Y. Cambric frillings and embroideries.....	14,329	Apr. 26	39	366
Catherwood, Allen T. (See McFerren, Trego, and Catherwood.)				
Červinka, Joseph, Chicago, Ill. Family soap.....	14,342	May 3	39	472
Cervinka, Joseph, Chicago, Ill. Soap.....	14,430	May 24	39	836
Chadwick, Lillie A., New Bedford, Mass. Medicine for external and internal use and for certain named diseases.....	14,506	June 14	39	1206
Chandon & Co., Epernay, France. Champagne-wines.....	14,295	Apr. 19	39	248
Chase & Co., Boston, Mass. Cough lozenges, tablets, sticks, and drops.....	14,016	Feb. 1	38	422
Chase & Fitchit, Pinnebrog, Mich. Remedy for general debility.....	14,805	Oct. 11	41	128
Chase & Sanborn, Boston, Mass. Coffee.....	14,652	Aug. 2	40	450
Chesterman & Barrow, Sioux City, Iowa. Aerated beverages.....	14,505	June 14	39	1206
China and Japan Trading Company, (limited,) New York, N. Y. Cotton and woolen goods.....	14,200	Mar. 29	38	1370
China and Japan Trading Company, (limited,) New York, N. Y. Cotton and woolen fabrics.....	14,296	Apr. 19	39	248
China and Japan Trading Company, (limited,) New York, N. Y. Cotton and woolen woven fabrics.....	14,707	Aug. 30	40	922
China and Japan Trading Company, (limited,) New York, N. Y. Woven cotton and woolen fabrics.....	15,050	Dec. 20	41	1276
Cladin & Co., H. B., New York, N. Y. Unbleached muslins.....	14,431	May 24	39	836
Clark, Calvin J., Liberty, Nebr. Liniment.....	14,834	Oct. 18	41	238
Clark, Philip K., Jersey City, N. J. Medicines for use in inflammation of the bladder and urethra.....	14,330	Apr. 26	39	366
Clarke, Samuel, Pyramid Works, Childs Hill, London, England. Lamps, candle-holders, candles, and night-lights.....	14,996	Dec. 6	41	1046
Cleaves, N. Porter, Boston, Mass. Liniment or salve.....	14,975	Nov. 29	41	938
Clemens Manufacturing Company, (limited,) Pottsville, Pa. Perspiration-absorbent in the form of a powder.....	14,698	Aug. 23	40	814
Cleveland Company, (limited,) A. B., New York, Cape Vincent, and Adams, N. Y. Peas.....	13,957	Jan. 4	38	2
Cleveland Company, (limited,) A. B., New York, Cape Vincent, and Adams, N. Y. Beans.....	14,069	Feb. 15	38	664
Cleveland Company, (limited,) A. B., New York, Cape Vincent, and Adams, N. Y. Peas.....	14,070	Feb. 15	38	664
Cleveland Company, (limited,) A. B., New York, Cape Vincent, and Adams, N. Y. Peas.....	14,121	Mar. 1	38	902
Cleveland Company, (limited,) A. B., New York, Cape Vincent, and Adams, N. Y. Peas.....	14,122	Mar. 1	38	902
Cleveland Company, (limited,) A. B., New York, Cape Vincent, and Adams, N. Y. Peas.....	14,460	May 31	39	964
Cleveland Provision Company, Cleveland, Ohio. Hams and flitches.....	14,604	July 19	40	250
Cleveland, Valentine W., Kansas City, Mo. Liniments.....	14,259	Apr. 12	39	124
Clinton Manufacturing Co., Brooklyn, N. Y. Flax packing for hydraulic and steam purposes.....	14,487	June 7	39	1088
Coffin, Devoe & Company, Chicago, Ill. Mixed paints.....	14,567	July 5	40	2
Coget, Charles, and H. Lacour, Paris, France. Black dyed fabrics.....	14,580	July 12	40	122
Cohen, Hermann, New York, N. Y. Pomade.....	14,402	May 17	39	712
Cole & Co., H. C., Chester, Ill. Wheat-flour.....	14,063	Feb. 8	38	546
Colebrook & Co., W. H., Syracuse, N. Y. Stove-polish.....	14,815	Oct. 11	41	128
Coleman & Co., William T., San Francisco, Cal. Preserved fruits.....	14,343	May 3	39	472
Coleman & Co., William T., San Francisco, Cal. Canned fruit, berries, and vegetables.....	14,632	July 26	40	350
Coleman & Co., William T., San Francisco, Cal., and New York, N. Y. Wines.....	14,780	Sept. 27	40	1344
Coleman & Co., William T., New York, N. Y. Canned fish.....	14,432	May 24	39	836
Conant, Ira M. and W. H., Boston, Mass. Outside water-proof garments for men, women, and children.....	14,433	May 24	39	836
Conant, William H. (See Conant, Ira M. and W. H.)				
Conzelman, Louise, St. Louis, Mo. Cough-sirup.....	14,827	Oct. 18	41	238
Co-Operative Barrel Manufacturing Company, Minneapolis, Minn. Flour-barrels and their component parts.....	14,779	Sept. 27	40	1344
Coombs, Crosby & Eddy, New York, N. Y. Cotton fabrics, such as sheetings, shirtings, and duck.....	14,434	May 24	39	836
Coombs, Crosby & Eddy, New York, N. Y. Illuminating and lubricating oils.....	14,792	Oct. 4	41	2

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Corbin, May & Co., Chicago, Ill. Baking-powder.....	14,488	June 7	39	1088
Cornell, William H., St. Louis, Mo. Ointment.....	14,997	Dec. 6	41	1046
Cornly & Flanigen, Philadelphia, Pa. Canned fruits and vegetables.....	14,201	Mar. 29	38	1370
Corry, James F., Cincinnati, Ohio. Salve.....	14,403	May 17	39	712
Corticine Floor Covering Company, (limited,) London, county of Middlesex, England. Floor-covering.....	14,050	Feb. 8	38	546
Couper Milling Company, Tarrytown, N. Y. Fancy patent flour.....	14,087	Feb. 22	38	786
Covell, Alexander H., New Bedford, Mass. Ointment for skin diseases.....	14,793	Oct. 4	41	2
Cox, George S., Philadelphia, Pa. Turkish towels, figured and plain.....	14,535	June 21	39	1330
Cox, Harry B., Cincinnati, Ohio. Electric or galvanic batteries.....	14,017	Feb. 1	38	422
Cox, Robert, Edinburgh, Scotland. Gelatine.....	14,754	Sept. 13	40	1140
Cramer, Gustav, St. Louis, Mo. Photographic dry-plates.....	14,249	Apr. 5	39	2
Creasinger & Co., Los Angeles, Cal. Medicinal vegetable compounds in liquid or solid form and for external or internal use.....	14,260	Apr. 12	39	124
Creole Manufacturing Company, New Orleans, La. Yeast-powder.....	14,816	Oct. 11	41	128
Crompton Company, Crompton and Providence, R. I. Pile-surfaced fabrics of all varieties except carpetings.....	14,435	May 24	39	836
Crompton Company, Crompton and Providence, R. I. Pile-surfaced fabrics of all varieties except carpets.....	15,061	Dec. 27	41	1394
Croftfield & Sons, Joseph, Warrington, county of Lancaster, England. Soap.....	14,976	Nov. 29	41	938
Crosse & Blackwell, Soho Square, county of Middlesex, England. Table-sauce.....	14,154	Mar. 8	38	1020
Crossman & Bro., W. H., New York, N. Y. Kerosene-oil.....	14,633	July 26	40	350
Crow, Charles R., Minneapolis, Minn. Compound for the cure of liver and kidney complaints.....	14,727	Sept. 6	40	1034
Cuccio, Domenico, New York, N. Y. Lemons.....	14,221	Mar. 29	38	1370
Curtis, Orville H., St. Paul, Minn. Rubber goods.....	13,940	Jan. 4	38	2
Danielius & Co., Solomon, Philadelphia, Pa. Spool-holders.....	14,071	Feb. 15	38	664
Dassel Woolen Mills Company, Dassel, Minn. Woolen cloth.....	14,350	May 3	39	472
Davies, Martha M., Fishkill-on-the-Hudson, N. Y. Cathartic medicines.....	14,000	Jan. 25	38	334
Davis & Co., Curtis, Cambridge, Mass. Soap-powder.....	14,364	May 10	39	592
Davis, Marean & Co., Boston, Mass. Braids for trimming.....	14,461	May 31	39	964
Davis, Marean & Co., Boston, Mass. Worsted and woolen yarn.....	14,728	Sept. 6	40	1034
Davis, Newton C., Frankfort, Ind. Medical compound for the treatment of female diseases.....	14,374	May 10	39	592
Davis & Son, James C., Cambridge and Boston, Mass. Soap for laundry and general purposes.....	14,568	July 5	40	2
Day, Jane, Monroe, N. Y. Ointments.....	14,928	Nov. 15	41	700
Day & Martin, 97 High Holborn, county of Middlesex, England. Liquid, paste, and water-proof blacking.....	14,544	June 21	39	1330
De Bary & Co., Frederick, New York, N. Y. Claret wine.....	14,953	Nov. 22	41	820
De Grath, Adelia B., New York, N. Y. Liniment.....	14,164	Mar. 15	38	1134
De Haven & Co., (limited,) Pittsburg, Pa. Cooking and heating stoves and ranges for burning coal, wood, gas, and oil.....	14,106	Mar. 1	38	902
De Pasquale, Pasquale M., Messina, Sicily. Oranges and lemons.....	14,235	Apr. 5	39	2
Detchon, Irwin A., Crawfordsville, Ind. Certain medicinal remedies.....	14,755	Sept. 13	40	1140
Dettloff & Stearns, St. Paul, Minn. House-paint.....	14,869	Nov. 1	41	470
Deutsche Gold & Silber Scheide Anstalt, vorm. Roessler, Frankfort-on-the-Main, Germany. Liquid gold and material for decorating and coloring earthenware, porcelain, and glass.....	14,100	Feb. 22	38	786
Diamond Yeast Co., Fond du Lac, Wis. Yeast-cakes.....	14,729	Sept. 6	40	1034
Dickerman, Fletcher W., Chicago, Ill. Desks, seats, and similar articles of school, office, and business furniture.....	14,462	May 31	39	964
Diehl, Conrad L., Louisville, Ky. Face-powder.....	14,052	Feb. 8	38	546
Dieter, J. P., Chillicothe, Ohio. Baking-powder.....	14,331	Apr. 26	39	366
Dietz Company, R. E., New York, N. Y. Tubular lanterns or lamps and stoves.....	14,569	July 5	40	2
Dietz Company, R. E., New York, N. Y., and Chicago, Ill. Tubular lamps and tubular lanterns.....	15,062	Dec. 27	41	1394
Dietz, Robert E., New York, N. Y., and Chicago, Ill. Burners for lamps and lanterns.....	14,794	Oct. 4	41	2
Dietz, Robert E., New York, N. Y., and Chicago, Ill. No-chimney burners for lamps and lanterns.....	14,898	Nov. 8	41	582
Dill, Adolph, Richmond, Va. Chewing-tobacco.....	13,965	Jan. 11	38	110
Dixon & Sons, James, Sheffield, county of York, England. Silver, nickel-silver, britannia, and plated goods.....	14,806	Oct. 11	41	128
Dixon & Sons, James, Sheffield, county of York, England. Knives, forks, and other cutlery, and edge tools.....	14,807	Oct. 11	41	128
Dodds, John B., Cincinnati, Ohio. Bells for churches, engine-houses or other fire-alarms, schools, or other places or purposes.....	14,380	May 17	39	712
Dodge, Meigs & Co., New York, N. Y. Wooden clothes-pins.....	15,034	Dec. 20	41	1276
Dorsch & Sons, William, Newark, N. J. Boys' and youths' shoes.....	14,315	Apr. 26	39	366
Doty, John F., New York, N. Y. Rubber sundries for druggists and stationers.....	14,581	July 12	40	122
Dougherty, Henrietta G. (See Brandeis and Dougherty.).....				
Douglas & Stuart, Chicago, Ill. Oat groats.....	14,404	May 17	39	712
Doulton & Co., Lambeth, county of Surrey, and Burslem, county of Stafford, England. Earthenware and china.....	14,381	May 17	39	712
Downie Boiler Incrustation Preventive Company, San Francisco, Cal. Preparation of eucalyptus for a boiler-scale eradicator.....	14,756	Sept. 13	40	1140
Downing, Benjamin F., Jr., Newport, R. I. Liquid solution for beautifying the skin.....	14,977	Nov. 29	41	938
Dozier-Weyl Cracker Company, St. Louis, Mo. Soda-crackers.....	14,053	Feb. 8	38	546
Dr. Harter Medicine Company, St. Louis, Mo. Bitters.....	14,594	July 12	40	122
Dr. Harter Medicine Company, St. Louis, Mo. Remedies for diseases of the liver and lungs, ague medicines, tonics, vermifuge, soothing-drops, and liniments.....	14,781	Sept. 27	40	1344
Dr. Jaeger's Sanitary Woolen System Company, New York and Brooklyn, N. Y. Woolen undergarments.....	14,908	Nov. 8	41	582
Dryfoos & Co., L., New York, N. Y. Underskirts.....	13,987	Jan. 18	38	234
Drysdale & Co., Thomas, New York, N. Y. Farm implements and agricultural and other machinery and vehicles.....	14,978	Nov. 29	41	938
Drysdale & Co., Thomas, New York, N. Y. Cigars and manufactured tobacco in all its forms, and snuff.....	14,979	Nov. 29	41	938
Drysdale & Co., Thomas, New York, N. Y. Glassware, lamps, lanterns, brushes, and all other articles for household use.....	14,980	Nov. 29	41	938
Drysdale & Co., Thomas, New York, N. Y. Bar, plate, and other forms of iron and steel, cutlery, hardware, locks, and tools.....	14,981	Nov. 29	41	938
Duché, J. B. Marius, London, England. Glue.....	14,634	July 26	40	350
Dueber Watch Case Manufacturing Company, Cincinnati and Canton, Ohio, Newport, Ky., Chicago, Ill., New York, N. Y., and Newark, N. J. Filled cases for watches.....	14,605	July 19	40	250
Duke Sons & Company, W., Durham, N. C. Smoking-tobacco.....	13,966	Jan. 11	38	110
Dunham & Co., F. S., Detroit, Mich. Corsets.....	14,817	Oct. 11	41	128
Dunnell Manufacturing Company, Pawtucket, R. I. Calico.....	14,436	May 24	39	836
Dunning, William B., Geneva, N. Y. Steam-boilers for heating purposes.....	14,769	Sept. 20	40	1246
Durney, Oscar F., Rochester, N. Y. Baking-powder.....	14,072	Feb. 15	38	664

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Dyson, D. S., Bloomington, Ill. Unfermented carbonated beer.....	14,635	July 26	40	350
Eagle Cotton Gin Company, Bridgewater, Mass. Cotton-gins.....	15,035	Dec. 20	41	1276
Early Times Distillery Company, Louisville, Ky. Whisky.....	14,606	July 19	40	250
Eastern Distilling Company, New York, N. Y. Rye gin.....	14,176	Mar. 22	38	1252
Eastern Distilling Company, New York, N. Y. Rye gin.....	14,556	June 28	39	1430
Eastman & Bro., Philadelphia, Pa. Fine extracts and perfumery and toilet-soaps.....	14,770	Sept. 20	40	1246
Eaton & Co., John, Albany, N. Y. Tonics and blood-purifiers.....	14,332	Apr. 26	39	366
Ebner, Alfred, Brooklyn, N. Y. Medicinal cordial.....	14,489	June 7	39	1088
Eckhart & Swan, Chicago, Ill. Flour.....	14,699	Aug. 23	40	814
Economist Plow Company, South Bend, Ind. Sulky-plows.....	14,202	Mar. 29	38	1370
Edgett, Ezra A., Newark, N. Y. Canned fruit, vegetables, turkey, and chicken.....	14,870	Nov. 1	41	470
Ellis, James W., Brooklyn, N. Y. Compound for exterminating vermin.....	14,463	May 31	39	964
Ellithorp & Co., (Limited,) Pittston, Pa. Knit garments.....	14,607	July 19	40	250
Elterich, Charles, New York, N. Y. Taps, dies, and chasers for cutting screws and nuts.....	14,899	Nov. 8	41	582
Empire Wringer Company, Auburn, N. Y. Clothes-wringers.....	14,351	May 3	39	472
Epprecht, Henri, Zurich, Switzerland. Certain prepared food for infants and invalids.....	14,929	Nov. 15	41	700
Erie Preserving Company, Buffalo, N. Y. Preserves, jellies, fruits, vegetables, and meats.....	14,900	Nov. 8	41	582
Ethridge, Martin V. B., Boston, Mass. Time-piece dials.....	14,224	Mar. 29	38	1370
Eupepsy Yeast Co., Bradford, Pa. Bottled yeast.....	13,967	Jan. 11	38	110
Eureka Packing Co., Eureka, Wash. Ter. Canned fish.....	14,177	Mar. 22	38	1252
Evans Chemical Company, Cincinnati, Ohio. Liquid proprietary medicine.....	14,305	Apr. 19	39	248
Evans, Sons & Co., Liverpool, England. Lime-juice.....	14,782	Sept. 27	40	1344
Fabriques de Produits Chimiques de Thann et de Mulhouse, Bellevue, France, Thann and Mulhouse, Germany, and New York, N. Y. Dye-stuffs and colors and other chemicals.....	14,757	Sept. 13	40	1140
Fairbank & Co., N. K., Chicago, Ill. Family soap.....	14,316	Apr. 26	39	366
Fairbank & Company, N. K., Chicago, Ill. Fatty, oleaginous, or unctuous food substances.....	14,808	Oct. 11	41	128
Fairbank & Company, N. K., Chicago, Ill., St. Louis, Mo., New York, N. Y., and Omaha, Nebr. Family soap.....	14,001	Jan. 25	38	334
Fairbanks & Neale, Boston, Mass. Nerve-tonics.....	13,968	Jan. 11	38	110
Falk Bros., New York, N. Y. Laundry and toilet soap.....	14,203	Mar. 29	38	1370
Farnum & Co., John, Philadelphia, Pa. Gingham.....	14,871	Nov. 1	41	470
Farnum & Co., John, Philadelphia, Pa. Tickings, gingham, and all kinds of cotton goods.....	14,901	Nov. 8	41	582
Fawcett Durham Tobacco and Snuff Company, Durham, N. C., and San Francisco, Cal. Plug chewing and smoking tobacco.....	14,490	June 7	39	1088
Felgner & Son, F. W., Baltimore, Md. Smoking-tobacco.....	14,437	May 24	39	836
Fernando, Manuel D., New York, N. Y. Cleaning and polishing preparation.....	14,982	Nov. 29	41	938
Ferré, Jules, Paris, France. Medicine for the treatment of the genital organs.....	14,930	Nov. 15	41	700
Ferrer, Joaquin F., New York, N. Y. Smoked hams.....	13,941	Jan. 4	38	2
Ficklen & Sons, J. B., Fredericksburg, Va. Wheat-flour.....	14,593	July 12	40	122
Ficklen & Sons, J. B., Fredericksburg, Va. Wheat-flour.....	14,681	Aug. 16	40	698
Field & Co., Alfred, New York, N. Y. Cutlery.....	14,730	Sept. 6	40	1034
Fish, Charles F., Saratoga, N. Y. Natural mineral water.....	14,809	Oct. 11	41	128
Foot, J. Howard, Brooklyn, N. Y. Musical instruments.....	14,080	Feb. 15	38	664
Fordtran, E. H. (See King and Fordtran.)				
Foster & Sons, Fred. L., Philadelphia, Pa. Youths', ladies', misses', and children's shoes.....	14,831	Oct. 18	41	238
Fowler, Anderson, New York, N. Y., and Chicago, Ill. Cured and canned meats.....	14,983	Nov. 29	41	938
Fox River Butter Company, Oswego and Aurora, Ill. Butter.....	14,771	Sept. 20	40	1246
Frankenberg, Henry E., Brooklyn, N. Y. Yarns, threads, braids, and silk or linen webbing.....	14,382	May 17	39	712
Franklin Medicine Co., Philadelphia, Pa. Medicinal specific for throat, lung, and stomach diseases.....	14,923	Nov. 8	41	582
Frick Company, Waynesborough, Pa. Refrigerating-machines.....	14,229	Apr. 5	39	2
Friedberger & Co., Leopold S., New York, N. Y. Watches.....	14,608	July 19	40	250
Frye, Alice H., Salem, Mass. Toilet-waters.....	14,155	Mar. 8	38	1020
Fuechsel, Albert E., New York, N. Y. Garment-supporters.....	14,931	Nov. 15	41	700
Fulford, George T., Brockville, Ontario, Canada. Nasal balm.....	14,516	June 14	39	1206
Gaff, Gent & Thomas, Columbus, Ind. Product of Indian corn in the form of flakes.....	14,018	Feb. 1	38	422
Gail & Ax, G. W., Baltimore, Md. Cut and dried or long-cut smoking-tobacco.....	14,570	July 5	40	2
Gail & Ax, G. W., Baltimore, Md. Chewing and smoking tobacco.....	14,708	Aug. 30	40	922
Gail & Ax, G. W., Baltimore, Md. Cut and dried or long-cut smoking and chewing tobacco.....	14,902	Nov. 8	41	582
Gail & Ax, G. W., Baltimore, Md. Granulated smoking-tobacco.....	14,903	Nov. 8	41	582
Galaxy Mill Company, Minneapolis, Minn. Wheat-flour.....	14,019	Feb. 1	38	422
Galusha, Norman H., Rochester, N. Y. Stoves, ranges, parlor-heaters, and furnaces.....	14,818	Oct. 11	41	128
Garres, Jeune, et Fils, Veuve, Bordeaux, France. Macaroni, vermicelli, and other edible pastes, and also preserves.....	14,984	Nov. 29	41	938
Garver Drug Co., Bloomington, Ill. Lotion for the skin.....	14,165	Mar. 15	38	1134
Gausewitz & Co., Wm., Owatonna, Minn. Colic and spavin cure, worm, cough, and condition powders, cough-tea, plasters, and pills.....	15,008	Dec. 6	41	1046
Geddes Manufacturing Co., Cambridge, Mass. Medicinal astringent preparations.....	14,571	July 5	40	2
Geer, George S., Troy and New York, N. Y. Indestructible fuel-cartridges.....	14,904	Nov. 8	41	582
Gehrig Gebrüder, Berlin, Germany. Electromotor necklaces for teething children.....	14,054	Feb. 8	38	546
George, Robert, Chicago, Ill. Blacking for leather.....	14,682	Aug. 16	40	698
Germania Brewing Company, Syracuse, N. Y. Lager-beer.....	15,063	Dec. 27	41	1394
Gleason Manufacturing Company, E. P., New York and Brooklyn, N. Y., and Providence, R. I. Superheating gas-fixtures.....	14,020	Feb. 1	38	422
Godhelp, Jacob, New York, N. Y. Shirts.....	14,021	Feb. 1	38	422
Gogreve, Herman R., New Orleans, La. Yeast-powders.....	14,905	Nov. 8	41	582
Goldsborough, Charles, Baltimore, Md. Whisky.....	14,297	Apr. 19	39	248
Gordon & Ferguson, St. Paul, Minn. Hats for men and boys.....	14,178	Mar. 22	38	1252
Gordon & Ferguson, St. Paul, Minn. Men's and boys' hats.....	14,795	Oct. 4	41	2
Gowanda Agricultural Works Co., Gowanda, N. Y. Plows and plow-points.....	14,772	Sept. 20	40	1246
Gowans & Stover, Buffalo, N. Y. Laundry and toilet soaps of all kinds.....	14,156	Mar. 8	38	1020
Gowans & Stover, Buffalo, N. Y. Laundry and toilet soaps of all kinds.....	14,157	Mar. 8	38	1020
Gray, John H., Unionville, Pa. Butter.....	14,508	June 14	39	1206
Great Golden Seal Drug Company, Chicago, Ill. Nerve-food and non-alcoholic stimulant.....	14,954	Nov. 22	41	820
Green, L. Hilton, Pensacola, Fla. Sawed pitch-pine lumber and timber and sawed cypress shingles.....	15,051	Dec. 20	41	1276
Green, Martin V. and W. S. J., Smithfield, N. C. Liquid medicine for curing chills and purifying the blood.....	14,709	Aug. 30	40	922
Green, Walter S. J. (See Green, Martin V. and W. S. J.)				
Greene, F. E. & J. A., Boston, Mass., and New York, N. Y. Medicinal preparation in liquid and pill form used as a nerve tonic.....	14,491	June 7	39	1088
Greenway Brewing Company, Syracuse, N. Y. Light present-use ale.....	14,520	June 14	39	1206
Greenway Brewing Company, Syracuse, N. Y. Ale.....	14,521	June 14	39	1206
Gregg, Nathan, Shreveport, La. Flour.....	14,306	Apr. 19	39	248
Gregory, James N., Los Angeles, Cal. Cigars.....	14,691	Aug. 23	40	814
Griswold, Catharine A., New York, N. Y. Corsets.....	14,273	Apr. 12	39	124

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Griswold, Catharine A., New York, N. Y. Corsets	14,274	Apr. 12	39	124
Griswold, Catharine A., New York, N. Y. Corsets	14,275	Apr. 12	39	124
Griswold, Catharine A., New York, N. Y. Corsets	14,276	Apr. 12	39	124
Griswold, Catharine A., New York, N. Y. Corsets	14,277	Apr. 12	39	124
Groff, Charles R., St. Paul, Minn. Coffees, spices, baking-powder, and flavoring extracts	14,850	Oct. 25	41	358
Groves, John, Denver, Colo. Wrought-iron	14,955	Nov. 22	41	820
Gudewill & Bucknall, New York, N. Y. Cork-wood	14,835	Oct. 18	41	238
Gudewill & Bucknall, New York, N. Y. Cork-wood	14,836	Oct. 18	41	238
Gudewill & Bucknall, New York, N. Y. Cork-wood	14,851	Oct. 25	41	358
Gudewill & Bucknall, New York, N. Y. Cork-wood	14,852	Oct. 25	41	358
Gudewill & Bucknall, New York, N. Y. Cork-wood	14,932	Nov. 15	41	700
Gudewill & Bucknall, New York, N. Y. Cork-wood	14,933	Nov. 15	41	700
Guillaume, Franz C., Mülheim-on-the-Rhine, Cologne, Germany. Wire, wire rope, wire-work, twines, yarns, and hemp ropes	14,250	Apr. 5	39	2
Gunstone, William, Liverpool, England, and Chicago, Ill. Hog meats and lard	14,710	Aug. 30	40	922
Gurney Hot Water Heater Company, Boston, Mass. Apparatus for heating by hot water	14,064	Feb. 8	38	546
Gutherson, William T., Paterson, N. J. Medicinal cordial	14,022	Feb. 1	38	422
Hack, James W., New York, N. Y. Bluing	13,969	Jan. 11	38	110
Hackett & Co., T. M., Albany, N. Y. Coal and wood	14,536	June 21	39	1330
Hager, Edward, Newark, N. J. Trunks, traveling-bags, and satchels	14,653	Aug. 2	40	450
Haines, Henry H., Avilla, Ind. Balsam, balm, pills, and a powder for domestic animals and fowls	14,438	May 24	39	836
Hamill, Vincent G., Phoenix, N. Y. Headache-powders	14,572	July 5	40	2
Hammond & Co., C. A., Bazile Mills, Nebr. Flour	13,970	Jan. 11	38	110
Hampf & Söhne, Johann, Schönlinde and Vienna, Austria-Hungary. Underwear	14,557	June 28	39	1430
Hanes, Benjamin F., Winston, N. C. Plug, chewing, and smoking tobacco, cigars, and cigarettes	14,023	Feb. 1	38	422
Hannoversche Portland Cementfabrik Actiengesellschaft, Hanover, Prussia, Germany. Portland cement	14,198	Mar. 22	38	1252
Hansman & Hoffman, Fort Madison, Iowa. Cigars	14,783	Sept. 27	40	1344
Harder, Francis C., New York, N. Y. Sheetings, shirtings, printed fabrics, dress goods, and gingham	14,872	Nov. 1	41	470
Harford & Reeves, Cincinnati, Ohio. Balls of medicated disinfectant	14,307	Apr. 19	39	248
Harper & Brothers, New York, N. Y. Pamphlets and books	13,971	Jan. 11	38	110
Harris, William, Upper Montclair, N. J. Periodicals and books	15,036	Dec. 20	41	1276
Harrison Bros. & Co., Philadelphia, Pa. Wall-finish	14,383	May 17	39	712
Harrison & Company, F. J., (limited,) London, county of Middlesex, England, and New York, N. Y. Soap-powders	14,828	Oct. 18	41	238
Hart, Alice M., London, England. Art-embroideries	14,124	Mar. 8	38	1019
Hart, Alice M., London, England. Made-up homespuns, hand-made laces, embroideries, underlinen, and knitted goods	14,140	Mar. 8	38	1020
Hart, Bushrod W., Kansas City, Mo. Certain named medicines	14,333	Apr. 26	39	366
Hart & Co., H. Gilbert, Utica, N. Y. Hot-air furnaces	13,972	Jan. 11	38	110
Harter Medicine Company, St. Louis, Mo. Remedies for diseases of the liver and lungs, ague medicine, tonics, vermifuge, and soothing-drops	14,555	June 28	39	1430
Hartmann, Philip H., Cincinnati, Ohio. Whisky	14,853	Oct. 25	41	358
Hartmann, Philip H., Cincinnati, Ohio. Whisky	14,854	Oct. 25	41	358
Hartmann, Philip H., Cincinnati, Ohio. Whisky	14,855	Oct. 25	41	358
Hartzell, Samuel, Denver, Colo. Medicine for the cure of rheumatism, neuralgia, and liver and blood diseases	14,204	Mar. 29	38	1370
Haskins Bros., Boston, Mass. Gelatine made from the air-bladders of fish	15,015	Dec. 13	41	1168
Haviland & Co., New York, N. Y. Porcelain, china, glass, and analogous wares	14,002	Jan. 25	38	334
Haviland & Co., New York, N. Y. Porcelain, china, glass, and analogous wares	14,003	Jan. 25	38	334
Hawley & Hoops, New York, N. Y. Candies	14,956	Nov. 22	41	820
Hawley, James M., Albany, N. Y. Perspiration-powders	14,700	Aug. 23	40	814
Hayden Saddlery Hardware Company, P., St. Louis, Mo. Horse-collars	14,465	May 31	39	964
Hazlett, Amelia, New York, N. Y. Cosmetics	14,141	Mar. 8	38	1020
Hazlett & Co., S., (limited,) Washington, Pa. Ready-mixed paints	14,344	May 3	39	472
Heath, Robert F. J., Camden, N. J. Liquid polish for leather, metals, and glazed fabrics	14,873	Nov. 1	41	470
Heer, Charles M., Baltimore, Md. Celery wine	14,509	June 14	39	1206
Helvetia Milk Condensing Company, Highland, Ill. Condensed milk	13,954	Jan. 4	38	2
Hennessey, Kate R., Philadelphia, Pa. Cosmetic	14,758	Sept. 13	40	1140
Herbert, C., Berlin, Germany. Face powders and paints	14,654	Aug. 2	40	450
Herrick, Kirk & Co., New York, N. Y. Flour	14,492	June 7	39	1088
Herrick, Kirk & Co., New York, N. Y. Flour	14,493	June 7	39	1088
Herrick, Kirk & Co., New York, N. Y. Flour	14,494	June 7	39	1088
Herrick, Kirk & Co., New York, N. Y. Flour	14,495	June 7	39	1088
Herrington, Fred C., Burlington, Vt. Liniment	14,731	Sept. 6	40	1034
Herrod & Co., A. M., Brockton, Mass. Shoes	14,384	May 17	39	712
Herrod & Co., A. M., Brockton, Mass. Shoes	14,906	Nov. 8	41	582
Herzstam, Abraham, Sidney, Ohio. Hats, caps, gentlemen's furnishing goods, and clothing	14,142	Mar. 8	38	1020
Hess, Goldsmith & Co., New York, N. Y. Broad silks for dress goods	14,810	Oct. 11	41	128
Heyer, Andrew L., New York, N. Y. Ham, bacon, lard, tongues, and sausages	14,107	Mar. 1	38	902
Hickey, Ellen, Palatka, Fla. Remedy for rheumatism	14,004	Jan. 25	38	334
Hickman, William C., Boston, Mass. Substitute for sugar	13,973	Jan. 11	38	110
Hill, Warren, Boston, Mass. Toilet soaps and perfumes	14,385	May 17	39	712
Hiller, Frederick, Jr., San Francisco, Cal. Medicines for the cure of dyspepsia and malaria	15,064	Dec. 27	41	1394
Hills Bros., New York, N. Y. Peanuts	14,683	Aug. 16	40	698
Hinds, Aurelius S., Portland, Me. Lotion for the skin	14,985	Nov. 29	41	938
Hirsh & Bro., Abe, Philadelphia, Pa. Umbrellas and parasols	14,510	June 14	39	1206
Hobler, Peter, Chicago, Ill. Portable grinding-mills	13,988	Jan. 18	38	234
Hochstrasser, Paul, Saratoga Springs, N. Y. Certain named medicinal remedies	15,052	Dec. 20	41	1276
Hoffman, Edward J. (See Kearney and Hoffman.)				
Hohner, Matthias, Trossingen, Württemberg, Germany. Accordions	14,317	Apr. 26	39	366
Holman & Co., A. J., Philadelphia, Pa. Photograph-album	14,701	Aug. 23	40	814
Home Yeast Cake Company, Chicago, Ill. Yeast-cakes	13,974	Jan. 11	38	110
Holmes & Coutts, New York, N. Y. Biscuits, crackers, and wafers	14,907	Nov. 8	41	582
Holmes, Henry E., Walla Walla, Wash. Ter. Cough-sirup, perforated plasters, ointment, and veterinary preparations	14,230	Apr. 5	39	2
Holroyd, James, Albany, N. Y. All kinds of underwear	14,386	May 17	39	712
Holtz, Christian P. F., Hamburg, Germany. Preserves, fruits, vegetables, fish, cheese, and sauces	14,537	June 21	39	1330
Holtz & Freystedt, New York, N. Y. Wines and liquors	14,664	Aug. 9	40	580
Hooper, James E., Boston, Mass. Cure for piles	15,065	Dec. 27	41	1394
Hopkinson & Co., J. F., Providence, R. I., and New York, N. Y. Jewelry	15,053	Dec. 20	41	1276
Horlick's Food Company, Mount Pleasant and Racine, Wis. Food preparation for infants and invalids	14,856	Oct. 25	41	358

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Horn, Wilbur F., Carlisle, Pa. Insect and vermin destroyers.....	14,957	Nov. 22	41	820
Horton, Alexander F., Brooklyn, N. Y. Medical vaginal suppositories.....	14,261	Apr. 12	39	124
Hottinger, Otto G., Chicago, Ill. Compounds for the cure of asthma and other specific diseases....	14,231	Apr. 5	39	2
Hough, Howard M. (See Lynde and Hough.)				
Howard Bros., Fredonia, N. Y. Medicine for diseases of the liver in which hops form the principal ingredient.....	13,942	Jan. 4	38	2
Howard Bros., Fredonia, N. Y. Eye-salve.....	13,955	Jan. 4	38	2
Howard Watch and Clock Company, E., Boston, Mass. Watch-movements which have been adjusted only to heat and cold.....	14,692	Aug. 23	40	814
Howard Watch and Clock Company, E., Boston, Mass. Watch-movements which have not been adjusted.....	14,732	Sept. 6	40	1034
Howard Watch and Clock Company, E., Boston, Mass. Watch-movements which have been adjusted to heat, cold, isochronism, and position.....	14,733	Sept. 6	40	1034
Hoyt & Co., E. W., Lowell, Mass. Dentifrice.....	14,372	May 10	39	592
Hudson & Co., Dublin, Ireland. Whisky.....	14,595	July 12	40	122
Hudson, Henry E., Dublin, Ireland. Whisky.....	14,024	Feb. 1	38	422
Huenefeld, Ernst H., Cincinnati, Ohio. Babbitt metal.....	14,232	Apr. 5	39	2
Huggett, Sydney, Holloway, London, England. Solutions for hypodermic injections.....	15,016	Dec. 13	41	1168
Hunter, Charles E., Fredericksburg, Va. Plows.....	14,092	Feb. 22	38	786
Huntley & Palmers, Reading, county of Berks, and London, England. Biscuits and cakes.....	14,636	July 26	40	350
Hurd & Co., G. B., New York, N. Y. Note-paper and envelopes.....	14,308	Apr. 19	39	248
Hurd & Co., George B., New York, N. Y. Note-paper and envelopes.....	14,684	Aug. 16	40	698
Hurd & Co., George B., New York, N. Y. Note-paper and envelopes.....	14,685	Aug. 16	40	698
Hürter, Henry, Coblenz-on-the-Rhine, Germany. Natural mineral water.....	14,005	Jan. 25	38	334
Hutchinson & Co., Dr. F. S., Enosburg Falls, Vt. Liniment.....	14,582	July 12	40	122
Hutchinson & Co., F. S., Enosburg Falls, Vt. Medicine for preventing and curing certain named diseases.....	14,334	Apr. 26	39	366
Hyde & Burton, New York, N. Y. Cotton linings.....	14,205	Mar. 29	38	1370
Hyde, Louis H. (See Wilcox and Hyde.)				
Ichthyol-Gesellschaft Cordes, Hermann & Company, Hamburg, Germany. Preparations for the teeth and hair.....	14,874	Nov. 1	41	470
Ichthyol-Gesellschaft Cordes, Hermann & Company, Hamburg, Germany. Ointments, salves, pills, medicated liquids, and soaps.....	14,875	Nov. 1	41	470
Ichthyol-Gesellschaft Cordes, Hermann & Company, Hamburg, Germany. Medicated soap, pills, ointments, salves, and dental preparations.....	15,017	Dec. 13	41	1168
Ichthyol-Gesellschaft Cordes, Hermann & Company, Hamburg, Germany. Medicated soaps, pills, ointments, salves, and dental preparations.....	15,054	Dec. 20	41	1276
Illingworth, Thomas, Bradford, county of York, England. Fabrics to be used for outer clothing and for linings.....	14,583	July 12	40	122
Illingworth, Thomas, Bradford, county of York, England. Fabrics to be used for outer clothing and for linings.....	14,584	July 12	40	122
Illinois Alloy Company, Chicago, Ill. Metal alloy for reducing friction.....	14,222	Mar. 29	38	1370
Iowa Farming Tool Company, Fort Madison, Iowa. Hoes.....	14,225	Mar. 29	38	1370
Isaac, Hermann, New Orleans, La. Cigarette-paper.....	14,365	May 10	39	592
Isdahl & Co., Bergen, Norway. Cod-liver oil.....	14,538	June 21	39	1330
Ives & Co., A. H., Minneapolis, Minn. Caramels.....	14,675	Aug. 9	40	580
Jackson, W. Fred., Brockville, Ontario, Canada. Pills.....	14,278	Apr. 12	39	124
James, Emile, New York, N. Y. Sewing-machines for stitching leather.....	14,262	Apr. 12	39	124
Janesville Hay Tool Company, Janesville, Wis. Hay-elevators, hay-carriers, and hay-forks.....	14,511	June 14	39	1206
Jennings & Sons, A. G., Brooklyn, N. Y. Mitts, gloves, hose, and hand and arm coverings.....	14,066	Feb. 8	38	546
Jennings & Sons, A. G., Brooklyn, N. Y. Mitts, hair-nets, gloves, hose, and hand and arm coverings.....	14,206	Mar. 29	38	1370
Jennings & Sons, A. G., Brooklyn, N. Y. Mitts, gloves, hose, and hand and arm coverings.....	14,466	May 31	39	964
Jennings & Sons, A. G., Brooklyn, N. Y. Mittens and gloves.....	14,909	Nov. 8	41	582
Jensen & Company, (limited,) J., London, England. Cod-liver oil.....	14,263	Apr. 12	39	124
Johns Pratt Company, Hartford, Conn. Rings, knobs, gaskets, &c., molded or compressed and containing asbestos.....	14,345	May 3	39	472
Johnson & Co., I. C., London, England. Cement.....	14,655	Aug. 2	40	450
Johnson, Emerson & Co., Burlington, Vt. Coasting-sleds and toboggans.....	14,081	Feb. 15	38	664
Johnson & Johnson, New York, N. Y. Tooth powder and paste.....	13,975	Jan. 11	38	110
Johnson & Johnson, New York, N. Y. Medicinal plasters.....	14,025	Feb. 1	38	422
Johnson, William G., Jr., Nottingham, England. Hosiery.....	14,819	Oct. 11	41	128
Johnston, Henry S., Newtown, N. Y. Plasters.....	14,998	Dec. 6	41	1046
Johnston, Sarah I., New York, N. Y. Cough-mixtures.....	14,910	Nov. 8	41	582
Jones, Benjamin F., Atlanta, Ga. Liniment.....	14,405	May 17	39	712
Jones, McDuffee & Stratton, Boston, Mass. Glass chimneys for kerosene or petroleum lamps.....	14,618	July 19	40	250
Jones, McDuffee & Stratton, Boston, Mass. Glass chimneys for kerosene or petroleum lamps.....	14,734	Sept. 6	40	1034
Jones, McDuffee & Stratton, Boston, Mass. Pottery for table use.....	14,735	Sept. 6	40	1034
Jordan, Andrew J., St. Louis, Mo. Cutlery.....	14,026	Feb. 1	38	422
Jouvin, V. Xavier, Paris and Grenoble, France. Kid gloves.....	14,055	Feb. 8	38	546
Joy, Albert B., London, England. Imitation-marble compound.....	14,813	Oct. 11	41	128
Jughardt, William C., Brooklyn, N. Y. Collars, cuffs, and shirts.....	14,406	May 17	39	712
Jungbluth & Weingartner, New York, N. Y. Mucilage, cement, and glue.....	14,366	May 10	39	592
Kahn, Solmon W., Peru, Ind. Hog medicine.....	14,934	Nov. 15	41	700
Kansas City Hardware Company, Kansas City, Mo. Edge-tools for mechanics and farming-tools.....	14,467	May 31	39	964
Kantorowicz, Hartwig, Posen, Germany. Bitters.....	14,665	Aug. 9	40	580
Kaskine Company, New York, N. Y. Medicine for malarial and kindred diseases.....	14,736	Sept. 6	40	1034
Kauffman Milling Company, St. Louis, Mo. Wheat-flour.....	14,088	Feb. 22	38	786
Kauffman Milling Company, St. Louis, Mo. Wheat-flour.....	14,089	Feb. 22	38	786
Kayser & Hegner, Cincinnati, Ohio. Whiskies.....	14,186	Mar. 22	38	1252
Kearney, Michael J., and E. J. Hoffman, Sioux City, Iowa. Lubricating compound.....	14,309	Apr. 19	39	248
Keen, Robinson & Bellville, London, England. Prepared barley.....	14,837	Oct. 18	41	238
Kelley, C. Frank, New York, N. Y. Herbaceous mixture for disorders of the stomach.....	14,082	Feb. 15	38	664
Kelly & Co., Horace R., New York, N. Y. Cigars and cigarettes.....	14,832	Oct. 18	41	238
Kennedy Company, F. A., Cambridge, Mass. Crackers, biscuits, wafers, cakes, and kindred articles.....	14,759	Sept. 13	40	1140
Kennedy, David, Rondout, N. Y. Medicine to be taken internally.....	14,876	Nov. 1	41	470
Kerr, Bro. & Co., Alex., Philadelphia, Pa. Salt.....	14,686	Aug. 16	40	698
Kilmer Manufacturing Company, Schenectady, N. Y. Bale-ties, bundled wire, coiled wire, barbed-wire, wire-fence staples, wire nails, and perforated ornamental fencing.....	14,666	Aug. 9	40	580
King & Company, Frederick, London, England. Soup for human use.....	14,999	Dec. 6	41	1046
King & Company, Frederick, (limited,) London, county of Middlesex, England. Preparations of soup for human food.....	15,018	Dec. 13	41	1168
King, William B., and E. H. Fordtran, Galveston, Tex. Whisky.....	14,093	Feb. 22	38	786
Kingsford, Thomson, Oswego, N. Y. Perfumery extract.....	14,838	Oct. 18	41	238
Kingsford, Thomson, Oswego, N. Y. Toilet-water.....	14,877	Nov. 1	41	470

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Kinkele, Robert A. (See Newman and Kinkele.)				
Klein, Goodhart & Koch, Cleveland, Ohio. Clothing for youths, boys, and children	14,439	May 24	39	836
Kneuper, George, New York, N. Y. Compound for the cure of catarrh	14,585	July 12	40	122
Knights of Labor Co-Operative Manufacturing Tailoring Company, Chicago, Ill. Outside clothing for men, boys, and children	14,667	Aug. 9	40	580
Koch & Townsend, Chicago, Ill. Elastic paints	14,440	May 24	39	836
Koehler, Theodore J., Bethlehem, Pa. Veterinary remedy	14,637	July 26	40	350
Kohn & Co., Alois, New York, N. Y. Watch-chains	14,298	Apr. 19	39	248
Koster & Bial, New York, N. Y. Wines, beer, distilled liquors, and mineral waters	14,264	Apr. 12	39	124
Koster & Bial, New York, N. Y. Bottled wine, beer, distilled liquor, and mineral waters	14,318	Apr. 26	39	366
Kufeke, Anton, Glasgow, Scotland. Flour	14,387	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,388	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,389	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,390	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,391	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,392	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,393	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,394	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,395	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,396	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,397	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,398	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,399	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,407	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,408	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,409	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,410	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,411	May 17	39	712
Kufeke, Anton, Glasgow, Scotland. Flour	14,609	July 19	40	250
Kufeke, Anton, Glasgow, Scotland. Flour	14,610	July 19	40	250
Kufeke, Anton, Glasgow, Scotland. Flour	14,611	July 19	40	250
Kufeke, Anton, Glasgow, Scotland. Flour	14,612	July 19	40	250
Kufeke, Anton, Glasgow, Scotland. Flour	14,613	July 19	40	250
Kufeke, Anton, Glasgow, Scotland. Flour	14,614	July 19	40	250
Kufeke, Anton, Glasgow, Scotland. Flour	14,615	July 19	40	250
Kurtz Bros., Jacksonville, Fla. Plug-tobacco	14,166	Mar. 15	38	1134
Kurtz Bros., Jacksonville, Fla. Smoking-tobacco	14,256	Apr. 5	39	2
La Monte, George. (See Smith and La Monte.)				
Lacour, Henry. (See Coget and Lacour.)				
Lagrang, Margreat M., Worcester, Mass. Liniment	14,310	Apr. 19	39	248
Lairitz, L. & E., Remda, Thuringia, Germany. Pine-wool fabrics and preparations	14,074	Feb. 15	38	664
Lake, Ann E., Rahway, N. J. Bitters	14,285	Apr. 12	39	124
Lambertville Rubber Company, Lambertville, N. J. Rubber wearing-apparel	14,113	Mar. 1	38	902
Lamm, William C., Palestine, Tex. Soap	14,279	Apr. 12	39	124
Lamond, John S., and C. T. Robertson, Paterson, N. J. Hemp carpeting, ingrain, and matting	14,760	Sept. 13	40	1140
Lamplough, Henry, (limited,) 113 Holborn, London, England. Medicinal preparation for the treatment of fevers and other specified diseases	14,616	July 19	40	250
Lancaster Chemical Company, (limited,) Lancaster, Pa. Bone-phosphate fertilizer	14,056	Feb. 8	38	546
Land, Charles H., Tuscola, Ill. Medicine for animals	14,319	Apr. 26	39	366
Langlés, Justin J., New Orleans, La. Vermicelli in fancy shapes	14,125	Mar. 8	38	1019
Lappe & Sons, J. C., Allegheny City, Pa. Oak harness-leather	14,668	Aug. 9	40	580
Lauranson, Louis, Memphis, Tenn. Drugs and chemicals for medicinal purposes	14,126	Mar. 8	38	1019
Lawrence & Baxter. (See Peach, Robert W., assignor.)				
Lawrence, Berry & Co., Baltimore, Md. Shoes	14,878	Nov. 1	41	470
Lazell, Dalley & Co., New York, N. Y. Toilet preparations	14,006	Jan. 25	38	334
Lazell, Dalley & Co., New York, N. Y. Florida water	15,037	Dec. 20	41	1276
Le Page's Liquid Glue and Cement Company, Portland, Me., and Gloucester, Mass. Liquid fish glue	14,468	May 31	39	964
Le Page's Liquid Glue and Cement Company, Portland, Me., and Gloucester, Mass. Liquid fish glue	14,480	May 31	39	964
Le Page's Liquid Glue and Cement Company, Portland, Me., and Gloucester, Mass. Liquid fish glue	14,481	May 31	39	964
Le Page's Liquid Glue and Cement Company, Portland, Me., and Gloucester, Mass. Liquid fish glue	14,558	June 28	39	1430
Lelm, Otto, Suresnes, near Paris, France. Apparatus for producing transferred copies	14,067	Feb. 8	38	546
Lepper & Co., A., Sacramento, Cal. Medicinal remedy for external and internal use	14,179	Mar. 22	38	1252
Lepper & Co., A., Sacramento, Cal. Medicinal tea	14,180	Mar. 22	38	1252
Leroy, Marie A., Paris, France. Paste blacking for boots and shoes	14,879	Nov. 1	41	470
Lever Bros., Warrington, county of Lancaster, England. Soap for laundry, toilet, and general purposes	14,441	May 24	39	836
Lewis, Henry J., Stratford, Conn. Oysters	15,019	Dec. 13	41	1168
Lewis, Henry J., Stratford, Conn. Oysters	15,020	Dec. 13	41	1168
Lewis, Pearl C., Catskill, N. Y. Folding reclining rocking-chair	14,737	Sept. 6	40	1034
Lewisohn Brothers, New York, N. Y. Copper ingots	13,976	Jan. 11	38	110
Lieb, William R., Jersey City, N. J. Mixture of dry and uncooked wheat-flour and cornmeal	15,021	Dec. 13	41	1168
Lièvre, Fricke & Co., San Francisco, Cal. Java coffee	13,989	Jan. 18	38	234
Lilly & Company, Eli, Indianapolis, Ind., and Kansas City, Mo. Medicinal preparation for the cure of diseases of the blood and skin	14,711	Aug. 30	40	922
Link, Charles W., Jr. (See Rath, Link, and Schmidt.)				
Link, Charles W., Jr., New York, N. Y. Liquid washing compound	15,000	Dec. 6	41	1046
Lion Manufacturing Company, Peoria, Ill. Bitters	14,880	Nov. 1	41	470
Lister & Co., Bradford, county of York, England. Sewing-silk and machine-twist	14,233	Apr. 5	39	2
Lister & Co., Bradford, county of York, England. Silk-waste yarns, velvets, velvet ribbons, and fancy dress goods	14,265	Apr. 12	39	124
Lloyd & Supplee Hardware Co., Philadelphia, Pa. Meat mincing or cutting machines	13,944	Jan. 4	38	2
Loeser & Co., Frederick, Brooklyn, N. Y. Dress goods	14,207	Mar. 29	38	1370
Logan, Charles W., Baltimore, Md. Extracts and essences for flavoring food	13,943	Jan. 4	38	2
Lombard, Ayres & Company, New York, N. Y. Refined petroleum	14,044	Feb. 1	38	422
Lombard, Ayres & Company, New York, N. Y. Refined petroleum	14,045	Feb. 1	38	422
Lombard, Ayres & Company, New York, N. Y. Refined petroleum	14,046	Feb. 1	38	422
Lombard, Ayres & Company, New York, N. Y. Lubricating-oil	14,352	May 3	39	472
Lombard, Ayres & Company, New York, N. Y. Lubricating-oil	14,442	May 24	39	836
Lombard, Ayres & Company, New York, N. Y. Illuminating-oil	14,958	Nov. 22	41	820
Long, F. Donleavy, Philadelphia, Pa. Tonic mixture and cholera-drops	14,099	Feb. 22	38	786

Alphabetical list of registrants of trade-marks--Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Loomis, Abner, Chazy, N. Y. Oil liniment.....	14,412	May 17	39	712
Lord & Taylor, New York, N. Y. Hose for men, women, and children.....	15,022	Dec. 13	41	1168
Loreaux, Desire, Sterling, Ohio. Liniment.....	14,443	May 24	39	836
Lorillard & Co., P., Jersey City, N. J. Snuff, fine-cut, plug, and chewing and smoking tobacco....	14,496	June 7	39	1088
Loth & Co., Joseph, New York, N. Y. Silk dress-goods, ribbons, velvets, plushes, and ties.....	13,945	Jan. 4	38	2
Lougee Medicine Company, Portland, Me., and Lynn, Mass. Medicine compounded of roots and herbs.....	14,596	July 12	40	122
Louis, Alfred, Manchester, England. Velveteen.....	14,638	July 26	40	350
Lowney, Walter M., Boston, Mass. Chocolate cream-drops.....	14,108	Mar. 1	38	902
Lowrey, John T., We Wo Ka, Ind. Ter. Ague or chill pills, female tonic pills, liniments, and salves.....	14,617	July 19	40	250
Ludlow, Henry C., New Orleans, La. Bales of cotton.....	14,094	Feb. 22	38	786
Lupprian, Charles, New York, N. Y. Knitted jackets, armlets, leggings, mittens, gloves, and shirts.....	14,181	Mar. 22	38	1252
Luqueer & Co., R. S., New York, N. Y. Saddlery-hardware, harness-trimmings, harness-leather, horse-blankets, sheets, fly-nets, and whips.....	14,167	Mar. 15	38	1134
Lynde, William C., and H. M. Hough, San Francisco, Cal. Medicinal preparation in the form of a lotion.....	14,065	Feb. 8	38	546
Lyon & Healy, Chicago, Ill. Gut strings for musical instruments.....	14,127	Mar. 8	38	1020
Maddocks, Booth & Co., Bradford, county of York, England. Woolen, worsted, hair, silk, and cotton piece goods, and piece goods containing a mixture of the same.....	15,038	Dec. 20	41	1276
Magee, Gustave H., New Orleans, La. Bags of burlap with a paper lining.....	14,464	May 31	39	964
Manewal-Lange Cracker Company, St. Louis, Mo. Crackers, fancy biscuits, cakes, and jumbles.....	14,266	Apr. 12	39	124
Manewal-Lange Cracker Company, St. Louis, Mo. Crackers, fancy biscuits, cakes, and jumbles.....	14,267	Apr. 12	39	124
Manheim, Amanda, Baltimore, Md. Medicine for the cure of rheumatism.....	14,444	May 24	39	836
Manitou Mineral Water Bath and Park Company, Manitou Springs, Colo. Mineral spring water.....	14,354	May 3	39	472
Manitou Mineral Water Bath and Park Company, Manitou Springs, Colo. Mineral spring water.....	14,355	May 3	39	472
Mann, George, Toronto, Ontario, Canada. Tea.....	14,353	May 3	39	472
Mansfield & Co., S., Memphis, Tenn. Vermifuge.....	14,911	Nov. 8	41	582
Markell Bros., Baltimore, Md. Ground dry mustard.....	14,881	Nov. 1	41	470
Markle Engineering Company, Detroit, Mich. Machine-oil.....	14,839	Oct. 18	41	238
Martin & Co., L., Philadelphia, Pa. Car-painters' lamp-black.....	14,882	Nov. 1	41	470
Martinez & Co., Baltimore, Md. Cigars.....	14,986	Nov. 29	41	938
Marx, Max, New York, N. Y. Cigars.....	14,559	June 28	39	1430
Marx, Max, New York, N. Y. Cigars.....	14,560	June 28	39	1430
Massachusetts Cotton Mills, Boston, Mass. Bleached and unbleached woven cotton goods.....	13,946	Jan. 4	38	2
Massasoit Spring Water Co., Springfield, Mass. Mineral-spring water and medicinal preparations containing said water.....	14,773	Sept. 20	40	1246
Mast, Foos & Company, Springfield, Ohio. Lawn-mowers.....	14,356	May 3	39	472
Matchless Metal Polish Company, Chicago, Ill. Compound for polishing and cleaning metal.....	14,497	June 7	39	1088
Mathews, John L., West Troy, N. Y. Razor-paste and paste for preserving leather.....	14,143	Mar. 8	38	1020
Mathews & Co., John W., Newburg, N. Y. Flour.....	15,039	Dec. 20	41	1276
Mattoni, Heinrich, Carlsbad, Bohemia, Austria-Hungary, and New York, N. Y. Mineral waters.....	14,987	Nov. 29	41	938
May, John, Paterson, N. J. Shirts, collars, and cuffs.....	14,959	Nov. 22	41	820
McAllister, H. H. (See Tiers and McAllister.)				
McCarthy & Sons, Dennis, Syracuse, N. Y. Dress-shirts.....	14,469	May 31	39	964
McCarthy & Sons, Dennis, Syracuse, N. Y. Dress-shirts.....	14,470	May 31	39	964
McCarty, James J., Lowell, Mass. Cod-liver oil.....	14,027	Feb. 1	38	422
McComber, Joel, New York, N. Y. Lasts for boots and shoes.....	14,774	Sept. 20	40	1246
McComber, Joel, New York, N. Y. Polish for boots and shoes.....	14,960	Nov. 22	41	820
McCorrison, Annie M., Portland, Me. Toilet lotion.....	15,055	Dec. 20	41	1276
McCreery & Co., James, New York, N. Y. Knit suits for outside garments, including knit caps and knit sashes.....	14,586	July 12	40	122
McCreery & Co., James, New York, N. Y. Blankets, lap-ropes, and similar woolen articles.....	14,829	Oct. 18	41	238
McCreery & Co., James, New York, N. Y. Blankets, lap-ropes, and similar woolen articles.....	14,830	Oct. 18	41	238
McFerren, Jacob S., A. H. Trego, and A. T. Catherwood, Hoopestown, Ill. Canned sugar-corn.....	14,128	Mar. 8	38	1020
McGraw, Will, Detroit, Mich. Cigars and cigarettes.....	14,028	Feb. 1	38	422
McGregor, John, Dundee, Scotland. Linen or fabric fire-hose.....	14,573	July 5	40	2
McIntosh, James R., Philadelphia, Pa. Cholera and pain cure.....	14,471	May 31	39	964
McKesson & Robbins, New York, N. Y. Perfumery and powders.....	13,947	Jan. 4	38	2
McKesson & Robbins, New York, N. Y. Base for ointments.....	14,335	Apr. 26	39	366
McLaughlin, James F., Philadelphia, Pa. Electrical type-writers.....	14,784	Sept. 27	40	1344
McLean Bros. & Rigg, New York, N. Y. Axes, hatchets, and other chopping-tools.....	14,320	Apr. 26	39	366
McMullen & Co., Thomas, New York, N. Y. Ale, stout, and porter.....	13,956	Jan. 4	38	2
Mead, Isaac F., New York, N. Y. Fever and ague and malaria cure.....	14,346	May 3	39	472
Meriden Britannia Company, Meriden, Conn. Electroplated table-ware.....	14,935	Nov. 15	41	700
Merriam, Charles R., Elmer, N. J. Canned tomatoes, corn, peas, peaches, and other vegetables and fruits.....	14,280	Apr. 12	39	124
Mexican Pulque Company, Apam, Mexico, and Jersey City, N. J. Preserved pulque.....	14,488	June 7	39	1088
Meyer-Bain Manufacturing Company, St. Louis, Mo. Tomato catsup.....	14,936	Nov. 15	41	700
Meyer, Emile, Paris, France. Perfumery.....	14,187	Mar. 22	38	1252
Meyer, Emile, Paris, France, and New York, N. Y. Perfumery in essences, extracts, dilutions, and combinations thereof with soaps, oils, rice powder, and cosmetics.....	14,208	Mar. 29	38	1370
Meyer, Emile, Paris, France, and New York, N. Y. Perfumery in essences, extracts, dilutions, and powders and combinations thereof in soaps, oils, cosmetics, and toilet-powders.....	14,209	Mar. 29	38	1370
Meyer, Emile, Paris, France, and New York, N. Y. Liquid dressing for the hair.....	14,210	Mar. 29	38	1370
Meyer, Emile, Paris, France, and New York, N. Y. Perfumery in essences, extracts, dilutions, and powders and combinations thereof in soaps, oils, cosmetics, and toilet-powders.....	14,211	Mar. 29	38	1370
Meyer, Emile, Paris, France, and New York, N. Y. Perfumery in essences, extracts, dilutions, and powders and combinations thereof in soaps, oils, cosmetics, and toilet-powders.....	14,212	Mar. 29	38	1370
Meyer, Emile, Paris, France, and New York, N. Y. Perfumery in essences, extracts, dilutions, and powders and combinations thereof in soaps, oils, and cosmetics.....	14,213	Mar. 29	38	1370
Meyer, Louis, Newburg, N. Y. Boots and shoes.....	14,168	Mar. 15	38	1134
Meyer, Sniffen Company, (limited,) New York, N. Y. Hydrants.....	14,639	July 26	40	350
Meyer, Sniffen Company, (limited,) New York, N. Y. Water-closets.....	14,640	July 26	40	350
Meyer, Sniffen Company, (limited,) New York, N. Y. Water-closet troughs.....	14,641	July 26	40	350
Meyer, Sniffen Company, (limited,) New York, N. Y. Water-closets.....	14,642	July 26	40	350
Meyer, Sniffen Company, (limited,) New York, N. Y. Bibbs, cocks, and faucets.....	14,643	July 26	40	350
Meyer, Sniffen Company, (limited,) New York, N. Y. Bath-tubs.....	14,644	July 26	40	350
Meyer, Sniffen Company, (limited,) New York, N. Y. Slop-sinks.....	14,645	July 26	40	350
Meyer, Sniffen Company, (limited,) New York, N. Y. Bath-tubs, basins, and water-closets.....	14,646	July 26	40	350
Meyer, Sniffen Company, (limited,) New York, N. Y. Bath-tub and basin wastes.....	14,647	July 26	40	350
Michaelis & Son, M., New York, N. Y. Flavoring extracts.....	14,068	Feb. 8	38	546
Michel & Co., New Orleans, La. Yeast-powder.....	15,066	Dec. 27	41	1394
Miller, Charles F., Lancaster, Pa. Laundry and toilet soap.....	14,057	Feb. 8	38	546
Miller, Edward F., Boston, Mass. Pantaloon.....	14,058	Feb. 8	38	546

Alphabetical list of registrants of trade-marks—Continued.

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Miller, Edward F., Boston, Mass. Pantaloon	14,075	Feb. 15	38	664
Mills & Gibb, New York, N. Y. Hosiery and underwear	14,375	May 10	39	592
Minnich, Simon B., Landisville, Pa. Manufactured tobacco and cigars	14,299	Apr. 19	39	248
Moore & Tudor, Buenos Ayres, Argentine Republic. Kerosene	14,114	Mar. 1	38	902
Morningstar & Co., Charles, New York, N. Y. Substitute for gum-arabic or mucilage	14,472	May 31	39	964
Morrell, Harriet B. S., Lansdale, Pa. Proprietary preparation in the form of pastilles	15,023	Dec. 13	41	1168
Morris & Bro., H., Memphis, Tenn. Pantaloon	14,336	Apr. 26	39	366
Morse & Co., James F., Boston, Mass. Hard soap	14,115	Mar. 1	38	902
Moss, George A., New York, N. Y. Shoe-blackening	14,796	Oct. 4	41	2
Mourilyan, Heimann & Co., New York, N. Y. Japan teas	14,357	May 3	39	472
Muhr's Sons, H., Philadelphia, Pa. Solid-gold finger-rings, solid watch-cases, and other solid jewelry	14,029	Feb. 1	38	422
Muhr's Sons, H., Philadelphia, Pa. Solid-gold finger-rings, solid watch-cases, and other solid jewelry	14,083	Feb. 15	38	664
Mulford, Charles W., New York, N. Y. Brushes	14,376	May 10	39	592
Mulford, Morgan R., Manasquan, N. J. Troches and cough-balsam	14,169	Mar. 15	38	1134
Mullaney & Hayes, Indianapolis, Ind. Wine	14,007	Jan. 25	38	334
Munroe, F. W. & I. M., Boston, Mass. Shoes	14,619	July 19	40	250
Murray, James, New York, N. Y. Rubber boots and rubber shoes	14,797	Oct. 4	41	2
Musser, Byron J., Hyde Park, Ill. Laundry-bluing	14,129	Mar. 8	38	1020
Myers & Co., S. F., New York, N. Y. Jewelry and silver-ware	14,059	Feb. 8	38	546
N. Y. Condensed Milk Company, New York, N. Y. Condensed milk	14,051	Feb. 8	38	546
Nairn, Thomas, Toronto, Ontario, Canada. Eye-salves	13,991	Jan. 18	38	234
Napheys & Son, George C., Philadelphia, Pa. Refined and leaf lard	15,067	Dec. 27	41	1394
National Heeling Machine Company, Portland, Me., and Boston, Mass. Heel-nailing machines	14,656	Aug. 2	40	450
National Manufacturing Company, Nashville, Tenn. Cotton and woolen fabrics and yarns	14,761	Sept. 13	40	1140
Natural Mineral Water Company, Salt Lake City, Utah Ter. Waters for medicinal purposes	14,400	May 17	39	712
Nebraska City Packing Company, Nebraska City, Nebr. Hog and beef products	14,712	Aug. 30	40	922
Neppach, Carl, New York, N. Y. Wines	14,445	May 24	39	836
Neumer, Ferdinand, New York, N. Y. Lager-beer	14,109	Mar. 1	38	902
Nevin & Co., T. H., Pittsburg, Pa. Furniture-finish	14,539	June 21	39	1330
New Urbana Wine Company, Urbana, N. Y. Sparkling wine or champagne	14,762	Sept. 13	40	1140
New York Paper Bag Machine and Manufacturing Company, New York, N. Y. Paper bags	14,268	Apr. 12	39	124
Newark Machine Company, Columbus, Ohio Rubber belting	14,820	Oct. 11	41	128
Newark Machine Company, Columbus, Ohio. Straw-stacking machines	14,883	Nov. 1	41	470
Newell & Bro., San Francisco, Cal. Hard soap	14,937	Nov. 15	41	700
Newell, Nelson C., Springfield, Mass. Button-braid	14,938	Nov. 15	41	700
Newman, Frank V., and R. A. Kinkle, New York, N. Y. Toilet-brushes	14,738	Sept. 6	40	1034
Nichols, Matthew S., Central Village, Conn. Dentifrices	14,884	Nov. 1	41	470
Nicholson, David, St. Louis, Mo. Canned vegetables, fruits, meats, and fish	14,188	Mar. 22	38	1252
Nicholson, David, St. Louis, Mo. Cigars and tobacco	14,189	Mar. 22	38	1252
Nicholson, David, St. Louis, Mo. Coffee, tea, and spices	14,190	Mar. 22	38	1252
Nicholson, David, St. Louis, Mo. Spirituous liquors and wines	14,191	Mar. 22	38	1252
Nicholson, David, St. Louis, Mo. Butter, cheese, and lard	14,192	Mar. 22	38	1252
Nicholson, David, St. Louis, Mo. Malt extract of liquid bread	14,193	Mar. 22	38	1252
Niepmann & Co., Ernst, Graefrath, Germany. Silk and part-silk goods	14,300	Apr. 19	39	248
Niepmann & Co., Ernst, Graefrath, Germany. Silk and half-silk goods	14,301	Apr. 19	39	248
Nolan, John F., San Francisco, Cal. Compound to protect metals from rust	14,281	Apr. 12	39	124
Norddeutsche Kartoffelmehl Fabrik, Cüstun, Germany. Preparation for use in the manufacture of colors for paper and paper-hangings and for other purposes	14,473	May 31	39	964
Northrup, Braslan & Goodwin Company, Minneapolis, Minn. Farm, garden, and lawn seeds	14,540	June 21	39	1330
Noyes & Co., P. A., Groton, Conn. Paper-cutting machine for printers and book-binders	14,337	Apr. 26	39	366
O'Brien, Michael, Detroit, Mich. Whisky	15,024	Dec. 13	41	1168
O'Shea Brothers, Laconia, N. H. Hosiery and underwear	14,347	May 3	39	472
Oberne, Hosick & Co., Chicago, Ill. Laundry-soap	14,030	Feb. 1	38	422
Oberne, Hosick & Co., Chicago, Ill. Soap for laundry, toilet, and general purposes	14,170	Mar. 15	38	1134
Ohio Iron Wheel Company, Hamilton, Ohio. Horse hay-rakes	15,040	Dec. 20	41	1276
Ohmeis, Peter M., New York, N. Y. Milwaukee beer	14,561	June 28	39	1430
Okonite Company, New York, N. Y. Insulated wires or electrical conductors	14,988	Nov. 29	41	938
Olin, Edwin R., New York, N. Y. Washing-powder	15,041	Dec. 20	41	1276
Olipphant & Co., Trenton, N. J. Acid-proof stoneware for druggists' use	14,713	Aug. 30	40	922
Oliver, William A., Baltimore, Md. Flour	14,269	Apr. 12	39	124
Olry, Louise H. L. R., Reims, France. Champagne-wines	14,101	Feb. 22	38	786
Olry, Louise H. L. R., Reims, France. Champagne-wines	14,102	Feb. 22	38	786
Olry, Louise H. L. R., Reims, France. Champagne-wines	14,103	Feb. 22	38	786
Osborn & Peck, New York, N. Y. Embossed metal goods	14,234	Apr. 5	39	2
Osborne, John E., Rawlings, Wyo. Ter. Grease wood-tar elixir for diseases of the air-passages and cactus cream for the skin and complexion	14,562	June 28	39	1430
Our Girls' Co-operative Clothing Manufacturing Company, Chicago, Ill. Coats, pantaloons, vests, jackets, overcoats, overalls, and overshirts for men and boys	14,620	July 19	40	250
Overton, Laura S., Brooklyn, N. Y. Deodorizers	14,739	Sept. 6	40	1034
Pacific Oil Company, St. Louis, Mo. Coal-oil	14,574	July 5	40	2
Pack & Son, Philadelphia, Pa. Mattresses	14,474	May 31	39	964
Palmer, James M., Boston, Mass. Remedy for colds, rheumatism, fevers, erysipelas, diphtheria, and indigestion	14,214	Mar. 29	38	1370
Palmer, John D., Monticello, Fla. Medicinal remedy for internal and external use and for certain named diseases	14,597	July 12	40	122
Palmer Manufacturing Company, New York, N. Y. Pots and kettles	14,358	May 3	39	472
Paret, Les Fils de A., Marseilles, France. Lard	14,840	Oct. 18	41	238
Parker, Horace B., Newton, Mass. Boots, shoes, and slippers	14,961	Nov. 22	41	820
Parrish, Edward J., Durham, N. C. Smoking-tobacco	14,841	Oct. 18	41	238
Patterson & Co., R. A., Richmond, Va. Plug-tobacco	13,948	Jan. 4	38	2
Paul, Charles H., Brooklyn, N. Y. Crackers	14,182	Mar. 22	38	1252
Pauls Bros., New York, N. Y., and Solingen, Germany. Cutlery	14,939	Nov. 15	41	700
Peach, Robert W., assignor to Lawrence & Baxter, New York, N. Y. Wrapping and lining paper	13,992	Jan. 18	38	234
Pearson, Henry E., Boston, Mass. Self-raising mixture for Boston brown bread and breakfast cakes	15,025	Dec. 13	41	1168
Peck, Theodore S., Burlington, Vt. Preparations for the hair, teeth, complexion, and hands	14,236	Apr. 5	39	2
Pemberton & Hill Tobacco Manufacturing Company, Richmond, Va. Cigars, cigarettes, chewing and smoking tobacco, and snuff	14,008	Jan. 25	38	334
Pemberton & Hill Tobacco Manufacturing Company, Richmond, Va. Cigars, cigarettes, chewing and smoking tobacco, and snuff	14,912	Nov. 8	41	582
Pemberton & Hill Tobacco Manufacturing Company, Richmond, Va. Cigars, cigarettes, chewing and smoking tobacco, and snuff	14,913	Nov. 8	41	582
Pemberton & Hill Tobacco Manufacturing Company, Richmond, Va. Cigars, cigarettes, chewing and smoking tobacco, and snuff	14,914	Nov. 8	41	582

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Pemberton & Hill Tobacco Manufacturing Company, Richmond, Va. Cigars, cigarettes, chewing and smoking tobacco, and snuff	14,915	Nov. 8	41	582
Pemberton & Hill Tobacco Manufacturing Company, Richmond, Va. Cigars, cigarettes, chewing and smoking tobacco, and snuff	15,001	Dec. 6	41	1046
Pendleton, J. H., New York, N. Y. Pills	14,702	Aug. 23	40	814
Perken, Son & Rayment, London, England. Optical, philosophical, and scientific instruments and apparatus	14,223	Mar. 29	38	1370
Peters, Jonathan S. (See Thomas and Peters.)				
Petzold, William R., Baltimore, Md. Rye whisky	14,621	July 19	40	250
Pevey, Charles K., Worcester, Mass. Steel springs or stiffeners for dresses and corsets	14,885	Nov. 1	41	470
Phelps, Charles H., White Plains, N. Y. Aerated waters	14,534	June 21	39	1330
Phosphor Bronze Smelting Company, (limited,) Philadelphia, Pa. Metallic alloys and articles made therefrom	15,068	Dec. 27	41	1394
Picon & Co., Marseilles, France. Bitters	13,993	Jan. 18	38	234
Pietschmann & Söhne, Ch. F., Berlin, Germany. Accordions	14,811	Oct. 11	41	128
Pike Manufacturing Company, A. F., Pike Station, N. H. Whetstones	14,658	Aug. 2	40	450
Pike Manufacturing Company, A. F., Pike Station, N. H. Whetstones	14,676	Aug. 9	40	5-0
Pike Manufacturing Company, A. F., Pike Station, N. H. Whetstones	14,714	Aug. 30	40	922
Pike Manufacturing Company, A. F., Pike Station, N. H. Whetstones	14,715	Aug. 30	40	922
Pike Manufacturing Company, A. F., Pike Station, N. H. Whetstones	14,716	Aug. 30	40	922
Pike Manufacturing Company, A. F., Pike Station, Haverhill, N. H. Oil-stones and whetstones	14,740	Sept. 6	40	1034
Pilkington & Son, W., Widnes, county of Lancaster, England. Bleaching-powder, chloride of lime, sulphate of soda, caustic soda, and potash	14,413	May 17	39	712
Pine, James K. P., Lansingburg, N. Y. Collars, cuffs, and shirts	14,215	Mar. 29	38	1370
Pine, James K. P., Lansingburg, N. Y. Cuffs and collars	14,286	Apr. 12	39	124
Pineo & Co., R. E., Philadelphia, Pa. Tea, coffee, cocoa, and spices	14,622	July 19	40	250
Pohndorff & Co., Washington, D. C. Wines and wine products	14,962	Nov. 22	41	820
Porter Bros. Company, Chicago, Ill., and Sacramento, Los Angeles, Riverside, and San José, Cal. Green and dried California fruits	14,598	July 12	40	122
Porter, Lemuel C., Winona, Minn. Flour	14,587	July 12	40	122
Post, Ezra L., New York, N. Y. Anti-friction metal	14,031	Feb. 1	38	422
Potter Drug and Chemical Co., Boston, Mass. Medicated toilet preparations	14,763	Sept. 13	40	1140
Potts, Joseph W., Salem, Ohio. Liniments and ointments	14,237	Apr. 5	39	2
Powell, Thomas W., Fort Worth, Tex. Medicinal compounds or mixtures	14,886	Nov. 1	41	470
Powell, William S., Mount Washington, Md. Pharmaceutical preparations	14,090	Feb. 22	38	786
Powell, William S., Baltimore, Md. Fertilizers	14,657	Aug. 2	40	450
Prang & Co., L., Boston, Mass. Pliant material having an ornamented surface in low relief	14,703	Aug. 23	40	814
Prange, Leo, Brooklyn, N. Y. Bitters	14,887	Nov. 1	41	470
Prange, Leo, Brooklyn, N. Y. Bitters	14,888	Nov. 1	41	470
Priestley & Co., B., Bradford, county of York, England. Dress goods composed of silk and wool, wool, and wool and cotton materials	14,238	Apr. 5	39	2
Probst & Co., Fred., New York, N. Y. Petroleum and turpentine	14,842	Oct. 18	41	238
Procter & Gamble, Cincinnati, Ohio. Laundry-soap	14,367	May 10	39	592
Provident Chemical Works, St. Louis, Mo. Powdered acid phosphate of lime for baking-powder	14,032	Feb. 1	38	422
Provident Chemical Works, St. Louis, Mo. Powdered acid phosphate of lime for baking-powder	14,033	Feb. 1	38	422
Provident Chemical Works, St. Louis, Mo. Powdered acid phosphate of lime for baking-powder	14,034	Feb. 1	38	422
Provost, Charles H., Brooklyn, N. Y. Wall-paper	14,414	May 17	39	712
Public Opinion Company, Washington, D. C. Weekly newspaper or pamphlet	14,130	Mar. 8	38	1020
Purcell, William, New York, N. Y. Cough-medicine	14,131	Mar. 8	38	1020
Purchase, Thomas E., Newark, N. J. Hard white metal consisting of a composition of metals	14,963	Nov. 22	41	820
Pyle Company, C. & J., Wilmington, Del. Patent, japanned, and enameled leather	14,239	Apr. 5	39	2
Pyle Company, C. & J., Wilmington, Del. Patent, japanned, and enameled leather	14,240	Apr. 5	39	2
Quinn, Peter, North Granville, N. Y. Ointment	14,575	July 5	40	2
Radam, William, Austin, Tex. Medicinal preparation of a prophylactic character	15,026	Dec. 13	41	1168
Radway & Company, New York, N. Y. Pills	14,704	Aug. 23	40	814
Radway & Company, New York, N. Y. Fluid Medicinal preparation for external and internal use	14,764	Sept. 13	40	1140
Radway & Company, New York, N. Y. Medicine for internal and external use	14,821	Oct. 11	41	128
Ragan & Jordan, Portland, Me. Remedies for gonorrhea	14,741	Sept. 6	40	1034
Randall, George H., Boston, Mass. Insect-powder	14,964	Nov. 22	41	820
Rath, Edward H., C. W. Link, Jr., and R. E. Schmidt, Flushing, N. Y. Medicated gum for curing toothache	15,056	Dec. 20	41	1276
Reed & Carnrick, New York, N. Y. Soluble food for infants and invalids	14,047	Feb. 1	38	422
Reiter & Co., Andrew, Baltimore, Md. Wheat-flour	14,623	July 19	40	250
Relief Oil Works, (limited,) Franklin, Pa. Water-white illuminating-oil	14,576	July 5	40	2
Remy, Schmidt & Pleissner, New York, N. Y. Linen and half-linen goods	14,475	May 31	39	964
Rennous, Kleinle & Co., Baltimore, Md. Painters' brushes	14,009	Jan. 25	38	334
Reuben's Hair Restorer Co., Detroit, Mich. Hair-restorer	14,717	Aug. 30	40	922
Revere Rubber Company, Boston, Mass. Rubber belting	14,415	May 17	39	712
Revere Rubber Company, Boston, Mass. Rubber belting, hose, and packing	15,002	Dec. 6	41	1046
Revere Rubber Company, Boston, Mass. Rubber belting	15,042	Dec. 20	41	1276
Reynolds, Rogers & Co., Binghamton, N. Y. Cigars and cigarettes	14,541	June 21	39	1380
Richter, Friedrich A., Nuremberg and Rudolstadt, Germany; Vienna, Austria; Rotterdam, Holland; Olten, Switzerland; London, England, and New York, N. Y. Toys and kindergarten materials	14,785	Sept. 27	40	1344
Richter, Friedrich A., Nuremberg and Rudolstadt, Germany; Vienna, Austria-Hungary; Rotterdam, Holland; Olten, Switzerland; London, England, and New York, N. Y. Toys and kindergarten materials	14,798	Oct. 4	41	2
Riddle Manufacturing Co., New York, N. Y. Knitting-cotton	14,416	May 17	39	712
Riedel, J. D., Berlin, Germany. Wool-fat	14,648	July 26	40	350
Robert & Co., Jules, Chaux-De-Fonds, Switzerland. Mainsprings for time-pieces	14,916	Nov. 8	41	582
Robertson, Colin T. (See Lamond and Robertson.)				
Robinson Co., F. P., Boston, Mass. Black dyes for cotton goods	14,499	June 7	39	1088
Robinson Co., F. P., Boston, Mass. Black dyes for cotton goods	14,500	June 7	39	1088
Robinson, Don A., Coaticook, Quebec, Canada. Pills	14,630	July 19	40	250
Rogers Manufacturing Company, Wm., Hartford, Conn. Gold and silver plated wares for household use	14,687	Aug. 16	40	698
Rogge & Koch, Baltimore, Md. Harmonicas	14,476	May 31	39	964
Rogge & Koch, Baltimore, Md. Harmonicas	14,542	June 21	39	1330
Rokohl Bros., New York, N. Y. Cigars	13,949	Jan. 4	38	2
Rolfe, Franklin, Boston, Mass. Raisins	14,799	Oct. 4	41	2
Romer, Andrew C. (See Romer, Nicholas, J. P., and A. C.)				
Romer, John P. (See Romer, Nicholas, J. P., and A. C.)				
Romer, Nicholas, J. P., and A. C., Gowanda, N. Y. Chopping-axes	14,132	Mar. 8	38	1020
Rosenberg, Isaac and S. H., New Haven, Conn. Corsets	14,171	Mar. 15	38	1134

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Rosenberg, Seymour H. (See Rosenberg, Isaac and S. H.)				
Rosenstein Brothers, New York, N. Y. Dried and preserved fish, meats, fruits, and vegetables....	14,917	Nov. 8	41	582
Rosenthal & Co., William, Göppingen, Württemberg, Germany. Corsets	14,940	Nov. 15	41	700
Rosseter & Smith, San Francisco, Cal. Compound for waterproofing and leather-preserving	14,116	Mar. 1	38	902
Rothkranz, Christina, New York, N. Y. Remedies for external use in the form of liquids or plasters.	14,941	Nov. 15	41	700
Round, Frederick, Southport, county of Lancaster, England. Soap and powder for sore and tender feet.....	14,786	Sept. 27	40	1344
Roussel, Amand, and P. Bailly, Paris, France. Braces and suspenders	14,718	Aug. 30	40	922
Ruger & Rupp, Chenoa, Ill. Toilet preparation for the skin	14,241	Apr. 5	39	2
Rumsey Manufacturing Company, L. M., St. Louis, Mo. Cane and sorgo mills	14,417	May 17	39	712
Rundle, George H., Piqua, Ohio. Medicinal compound for internal and external use	14,076	Feb. 15	38	664
Russell & Co., New York, N. Y. Brown sheetings and drills	14,084	Feb. 15	38	664
Russell & Co., New York, N. Y. Mixed teas	14,194	Mar. 22	38	1252
Ryder, William, Syracuse, N. Y. Nerve and blood medicine	14,104	Feb. 22	38	786
Ryder, William, Syracuse, N. Y. Pills	14,242	Apr. 5	39	2
Sacks & Richmond, Newark, N. J. Heel and sole plates.....	14,035	Feb. 1	38	422
Samson Manufacturing Co., Philadelphia, Pa. Glue.....	15,003	Dec. 6	41	1046
Sanders, Frederic, St. Petersburg, Russia. Pills for human use	14,800	Oct. 4	41	2
Sardy, Coles & Co., New York, N. Y. Catheters	14,133	Mar. 8	38	1020
Sarg's Son & Co., F. A., Vienna, Austria-Hungary. Tooth-soap	14,801	Oct. 4	41	2
Sawtell, Leon P., Atlanta, Ga. Cotton-seed	14,693	Aug. 23	40	814
Saxlehner, Andreas, Buda-Pesth, Austria-Hungary. Natural aperient water.....	14,251	Apr. 5	39	2
Saxlehner, Andreas Buda-Pesth, Austria-Hungary. Natural aperient water	14,252	Apr. 5	39	2
Scharr, Jonathan, New York, N. Y. Remedy for diseases of the mouth, nose, and throat	13,994	Jan. 18	38	234
Schenck, Adrien, New Orleans, La. Boots and shoes	14,802	Oct. 4	41	2
Schieffelin & Co., W. H., New York, N. Y. Medical drugs	14,588	July 12	40	122
Schieffelin & Co., W. H., New York, N. Y. Medical drugs	14,589	July 12	40	122
Schill, C. J., Sheboygan, Wis. Medicinal preparations	14,253	Apr. 5	39	2
Schirman, Moritz, Baltimore, Md. Certain named toilet preparations.....	14,321	Apr. 26	39	366
Schlaepfer, Ferber & Co., Montevideo, Uruguay. Denims and other suitings.....	14,359	May 3	39	472
Schlaepfer, Ferber & Co., Montevideo, Uruguay. Duck	14,418	May 17	39	712
Schmidt, Robert E. (See Rath, Link, and Schmidt.)				
Schollenberger, William, Philadelphia, Pa. Beef-drippings for cooking purposes	14,105	Feb. 22	38	786
Schreyer, John C., South Bend, Ind. Roasted coffee.....	14,360	May 3	39	472
Schnebmehl, Pratt & Co., Binghamton, N. Y. Cigars	14,765	Sept. 13	40	1140
Schultze Gunpowder Company, (limited,) London, England. Gunpowder	14,787	Sept. 27	40	1344
Schweinburg, Emil, New York, N. Y. Corsets and corset-clasps	14,705	Aug. 23	40	814
Schweizer, Frederick H., Columbus, Ohio. Stove-polish.....	14,060	Feb. 8	38	546
Schwob, Adolphe, New York, N. Y. Watches	14,512	June 14	39	1206
Scofield, Schurmer & Teagle, Cleveland, Ohio. Illuminating-oil	15,027	Dec. 13	41	1168
Scott, Richard C., Litherland Park, near Liverpool, county of Lancaster, England. Effervescent or non-effervescent salines.....	14,965	Nov. 22	41	820
Seminole Blood Purifier Company, Atlanta, Ga. Blood-purifier and general invigorant	14,446	May 24	39	836
Sewall Safety Car Heating Company, Portland, Me. Adhesive dressings for belts and pulleys	14,918	Nov. 8	41	582
Shephard, John A., New York, N. Y. Varnishes.....	13,977	Jan. 11	38	110
Sherman Bros. & Co., Chicago, Ill. Yeast-powder and baking-powder.....	14,843	Oct. 18	41	238
Sherriff, William J., Pittsburg, Pa. Steam-jet pumps	15,043	Dec. 20	41	1276
Shook, W. F., Corsicana, Tex. Specific for affections of the liver.....	14,348	May 3	39	472
Shoudy & Son, G. A., Rockford, Ill. Soap in cakes and bars for laundry and toilet purposes	14,243	Apr. 5	39	2
Siegfried & Brandenstein, San Francisco, Cal. Tea	13,978	Jan. 11	38	110
Silverberg & Co., Baltimore, Md. Cigarettes	13,995	Jan. 18	38	234
Simmons Hardware Company, St. Louis, Mo. Horseshoe-nails	13,979	Jan. 11	38	110
Simmons, Sydney, and J. Tullidge, London, England. Carpet-beaters.....	15,044	Dec. 20	41	1276
Simonis, Albert, J. Janssen & Dumoulin Frères, Liege, Belgium. Fire-arms	14,477	May 31	39	964
Sincock & Sherrill, New York, N. Y. Finger-rings	14,172	Mar. 15	38	1134
Sleeper & Co., S. S., Boston, Mass. Cigars.....	15,057	Dec. 20	41	1276
Sleeper Starch Company, Des Moines, Iowa. Laundry-starch	14,742	Sept. 6	40	1034
Sleeper Starch Company, Des Moines, Iowa. Corn-starch	14,743	Sept. 6	40	1034
Sloan, George, Otter River, Mass. Liquid medicine for internal and external use.....	14,036	Feb. 1	38	422
Smith, Alfred B., London, England. Medicine	14,788	Sept. 27	40	1344
Smith & Angell, New York, N. Y. Hosiery	14,844	Oct. 18	41	238
Smith & Anthony Stove Company, Boston, Mass. Heating, cooking, gasoline, and oil stoves, ranges, and heating-furnaces	14,744	Sept. 6	40	1034
Smith, Augustine, New York, N. Y. Paper of all kinds.....	14,659	Aug. 2	40	450
Smith, Augustine, and G. La Monte, New York, N. Y. Safety-paper for bank and other checks, bills of exchange, drafts, and all vouchers of value	14,226	Mar. 29	38	1370
Smith & Co., J. F., St. Louis, Mo. Alterative pills.....	14,966	Nov. 22	41	820
Smith, Julius P., San Francisco, Cal., and New York, N. Y. Chemically-pure borax.....	14,624	July 19	40	250
Smith & Son, Jay, Saginaw, Mich. Bitters	14,789	Sept. 27	40	1344
Snelling, Joseph, Brooklyn, N. Y. Compounded medicine for the cure of rheumatism.....	14,158	Mar. 8	38	1020
Snyder, Anna T., Chicago, Ill. Liniment.....	13,950	Jan. 4	38	2
Snyder, Hiram, Brooklyn, N. Y. Hydraulic cement	14,195	Mar. 22	38	1252
Société Générale des Cirages Français, Paris, France. Shoe-blackening	13,996	Jan. 18	38	234
Söhne, Carl S., Kirn-on-the-Nahe, Prussia, Germany. Mat and glazed kid or morocco	14,037	Feb. 1	38	422
Solid Ingot Company, Jersey City and Newark, N. J. Merchant bars, tools, and rails.....	14,942	Nov. 15	41	700
Solidarity Co-operative Cigar Factory, New York, N. Y. Smoking and chewing tobacco, cigars, and cigarettes	14,244	Apr. 5	39	2
Solidity Co-operative Clothing Company, New York, N. Y. Garments for men and boys	15,012	Dec. 6	41	1046
Soltmann, E. G., New York, N. Y. Draftsmen's and engineers' supplies and instruments	14,501	June 7	39	1088
Soltmann, E. G., New York, N. Y. Certain named drawing materials and instruments	14,625	July 19	40	250
Soltmann, E. G., New York, N. Y. Draftsmen's and engineers' supplies	14,775	Sept. 20	40	1246
Soltmann, Edward G., New York, N. Y. Certain named drawing materials and instruments.....	14,967	Nov. 22	41	820
Somborn, Julius, New York, N. Y. Champagne-wine	14,349	May 3	39	472
Somerville Medicine Co., Buffalo, N. Y. Medicine for horses and cattle	14,401	May 17	39	712
South Bend Medicine Company, South Bend, Ind., and Chicago, Ill. Medicine in the form of suppositories.....	14,117	Mar. 1	38	902
Soyer Sauce Co., Meadville, Pa. Meat, fish, and game sauces	14,822	Oct. 11	41	128
Spalding & Bros., A. G., Chicago, Ill., and New York, N. Y. Fishing-tackle	14,302	Apr. 19	39	248
Sparger Bros., Mount Airy, N. C. Chewing and smoking tobacco	14,719	Aug. 30	40	922
Spinner, Andrew J., Indianapolis, Ind. Medical appliance for use in cases of catarrh and similar diseases	14,720	Aug. 30	40	922
Spitz Bros. & Mork, Boston, Mass. Men's, boys', and children's clothing	14,669	Aug. 9	40	580
Staats Pine Liniment Company, New York and Brooklyn, N. Y. Liniment	14,061	Feb. 8	38	546
Stallman & Fulton, New York, N. Y. White castile-soap	14,118	Mar. 1	38	902

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Stamford Manufacturing Company, Stamford, Conn. Certain named drugs and chemicals.....	14,688	Aug. 16	40	698
Standard Explosives Company, New York, N. Y. High explosives and powders and blasting apparatus of every description.....	14,159	Mar. 8	38	1020
Standard Type Writer Manufacturing Company, New York, N. Y. Type-writing machines.....	14,823	Oct. 11	41	128
Staniforth, William T., Sheffield, county of York, England. Cutlery, edge-tools generally, and saws and files.....	14,419	May 17	39	712
Stark & Co., Louisiana, Mo. Fruit-trees.....	14,322	Apr. 26	39	366
Starker, Arthur W., Chemnitz, Saxony, Germany. Stockings.....	14,039	Feb. 1	38	422
Stearns & Company, F., Detroit, Mich., San Francisco, Cal., and Windsor, Ontario, Canada. Certain named medicinal remedies.....	14,626	July 19	40	250
Stedman, Daniel P., Attica, N. Y. Suppositories for curing female diseases.....	14,670	Aug. 9	40	580
Steele, Bryan C., St. Louis, Mo. Pills.....	14,323	Apr. 26	39	366
Steele, Bryan C., St. Louis, Mo. Pills.....	14,361	May 3	39	472
Steffee & Judd, Oil City, Pa. Liquid preparation for cleaning and polishing furniture and wood-work.....	14,513	June 14	39	1206
Stein Bros. & Baumgartl, Chicago, Ill. Hand-made sour-mash whisky.....	14,515	June 14	39	1206
Stephens, Henry C., London, England. Writing-inks.....	14,282	Apr. 12	39	124
Sterling Dyeing and Finishing Company, Sterling, Conn. Cambrics, silesias, and hosiery.....	14,660	Aug. 2	40	450
Sternemann Bros., Schleisingerville, Wis. Cigars.....	14,447	May 24	39	836
Stevens, Morris D., New York, N. Y. Wheat and rye flour, corn and oat meal, and buckwheat-flour.....	14,577	July 5	40	2
Stratton, John F., New York, N. Y. Accordions.....	15,069	Dec. 27	41	1394
Strieder, John W., Boston, Mass. Cigar-boxes.....	14,010	Jan. 25	38	334
Stone & Co., L. D., San Francisco, Cal. Harness and saddle.....	14,766	Sept. 13	40	1140
Stoneham & Company, (limited,) William G., London, England. Book-bindings.....	14,245	Apr. 5	39	2
Stoneman, George T., Albany, N. Y. Knit underwear.....	14,721	Aug. 30	40	922
Stout, John H., Milton, Pa. Alterative and liver pills.....	14,745	Sept. 6	40	1034
Suffolk Manufacturing Company, Boston, Mass. Suspenders and braces.....	14,038	Feb. 1	38	422
Suffolk Manufacturing Company, Boston, Mass. Suspenders and braces.....	14,040	Feb. 1	38	422
Suffolk Manufacturing Company, Boston, Mass. Suspenders and braces.....	14,889	Nov. 1	41	470
Suffolk Manufacturing Company, Boston, Mass. Braces and suspenders.....	14,919	Nov. 8	41	582
Sweet, Orrin P., Boston, Mass. Liquid medicine for kidney diseases, dyspepsia, liver complaints, and similar diseases.....	14,514	June 14	39	1206
Sweney, James P., St. Louis, Mo. Emery-wheels.....	14,920	Nov. 8	41	582
Sykes, Harry T., London, England. Stays or corsets.....	14,989	Nov. 29	41	938
Symington, Thomas, Edinburgh, Scotland, and London, England. Essence of coffee, of coffee and chicory, and of dandelion coffee.....	15,028	Dec. 13	41	1168
Symington, Thomas, Edinburgh, Scotland, and London, England. Prepared beverages of coffee and milk, chocolate and milk, cocoa and milk, and prepared dandelion.....	15,029	Dec. 13	41	1168
Tappan, Herman, New York, N. Y. Perfumed toilet materials.....	13,980	Jan. 11	38	110
Tappan, Herman, New York, N. Y. Perfumed toilet materials.....	13,981	Jan. 11	38	110
Tappan, Herman, New York, N. Y. Liquid cream for the complexion.....	14,196	Mar. 22	38	1252
Tappan, Herman, New York, N. Y. Face-powder, soap, and perfumery.....	14,246	Apr. 5	39	2
Tarr & Wonson, Gloucester, Mass. Paints.....	14,563	June 28	39	1430
Tarrant & Company, New York, N. Y. Tooth-brushes.....	14,943	Nov. 15	41	700
Taylor, Hugh W., Aurora, Ill. Coupon-books.....	14,990	Nov. 29	41	938
Taylor Tonic Co., Thomasville, Ga. Liquid vegetable compound with alterative and tonic properties.....	14,968	Nov. 22	41	820
Teyssonneau, Jne., Les Fils de Ch., Bordeaux, France. Preserved fruits and vegetables.....	13,990	Jan. 18	38	234
Thomas, Charles A., and J. S. Peters, Rushville, Ohio. Liniment.....	14,944	Nov. 15	41	700
Thomas Manufacturing Company, Baltimore, Md. Glue.....	14,270	Apr. 12	39	124
Thomson, William S., London, England. Smelling-salts.....	14,694	Aug. 23	40	814
Thomson, William S., London, England. Smelling-salts.....	15,030	Dec. 13	41	1168
Thomson, William S., London, England. Perfumed soaps, cosmetics, hair-oils, and perfumes.....	15,045	Dec. 20	41	1276
Thorne, Carroll & Co., New York, N. Y. Cardigan jackets.....	14,448	May 24	39	836
Tiers, Alexander H. and C., and H. H. McAllister, New York, N. Y. Medicine for the cure of malaria, chills, and ague.....	15,058	Dec. 20	41	1276
Tiers, Cornelius. (See Tiers and McAllister.).....				
Tillmann, Emanuel M., Dallas, Tex. Whisky.....	14,173	Mar. 15	38	1134
Timme, C. A., Hoboken, N. J. Gold-leaf for teeth-filling.....	14,449	May 24	39	836
Tindale, Thomas, South Hanover, Mass. Liquid liniment.....	14,062	Feb. 8	38	546
Tolman Company, John A., Chicago, Ill. Teas of all kinds.....	14,590	July 12	40	122
Towle & Co., P. J., Chicago, Ill. Teas.....	14,119	Mar. 1	38	902
Towle Manufacturing Company, Newburyport, Mass. Knives, forks, spoons, tongs, picks, ladles, scoops, sifters, and shakers made of silver, or of a baser metal plated with silver.....	14,254	Apr. 5	39	2
Trego, Alfred H. (See McFerren, Trego, and Catherwood.).....				
Tuckett, George E. and G. T., Hamilton, Ontario, Canada. Cut and plug tobacco.....	14,991	Nov. 29	41	938
Tuckett, George T. (See Tuckett, George E. and G. T.).....				
Tufts, James W., Boston, Mass. Aerated beverage made from apples.....	14,324	Apr. 26	39	366
Tullidge, Joseph. (See Simmons and Tullidge.).....				
Tuma, Bruno, New Orleans, La. Injection for gonorrhea and gleet.....	14,890	Nov. 1	41	470
Turner, Frederick, Philadelphia, Pa. Kid and other leather gloves.....	14,661	Aug. 2	40	450
Turner, Frederick, Philadelphia, Pa. Shoe and harness leather.....	14,767	Sept. 13	40	1140
Union Indurated Fibre Company, New York, N. Y., and Chicago, Ill. Hollow ware molded in one piece from wood fiber.....	14,921	Nov. 8	41	582
Union Manufacturing Company, Toledo, Ohio. Wash-boards.....	13,997	Jan. 18	38	234
Union Metallic Cartridge Company, Bridgeport, Conn., and New York, N. Y. Cartridges and bullets.....	14,134	Mar. 8	38	1020
Union Soap Co., Baltimore, Md. Soap in bars or cakes.....	14,077	Feb. 15	38	661
United Manufacturing Company, New York, N. Y. Collars and cuffs.....	14,135	Mar. 8	38	1020
United States Cartridge Company, Lowell, Mass. Cartridge-shells.....	14,160	Mar. 8	38	1020
United States Chemical Company, Philadelphia, Pa. Manufactured fertilizing products.....	14,110	Mar. 1	38	902
United States Wenham Patent Gas Lamp Company, New York, N. Y. Gas-fixtures.....	14,517	June 14	39	1206
Upton, Charles S., New York, N. Y. Natural mineral waters.....	14,671	Aug. 9	40	580
Upton, Charles S., New York, N. Y. Natural mineral waters.....	14,672	Aug. 9	40	580
Valton et Fils, Henri Q., Troyes, France. General underwear, dresses, and trousers for men and children.....	14,338	Apr. 26	39	366
Van Blankensteyn & Hennings, New York, N. Y. Yarns, threads, and embroidering materials.....	14,457	May 31	39	964
Van de Carr, Charles R., South Mills, N. C. Baled husks.....	14,078	Feb. 15	38	664
Van Dijk, H. P., Amsterdam, Netherlands. Stomach-bitters.....	14,041	Feb. 1	38	422
Van Houten & Zoon, C. J., Weesp, Holland. Cocoa and chocolate.....	14,216	Mar. 29	38	1370
Van Houten & Zoon, C. J., Weesp, Holland. Cocoa and chocolate.....	14,217	Mar. 29	38	1370
Van Houten & Zoon, C. J., Weesp, Holland. Cocoa and chocolate.....	14,218	Mar. 29	38	1370
Van Rensselaer & Co., New Brunswick, N. J. Ginger-snaps.....	13,958	Jan. 4	38	2

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Vansant & Co., Robert H., Trenton, N. J. Medicinal fruit lozenge	14,219	Mar. 29	38	1370
Vansickle, David, Danville, Pa. Liniment	14,992	Nov. 29	41	938
Vimenet Fils, J., Brussels, Belgium. Hats and caps	13,951	Jan. 4	38	2
Vogeler Co., Charles A., Baltimore, Md. Liniment	14,518	June 14	39	1206
Vogeler Co., Charles A., Baltimore, Md. Liniment	14,519	June 14	39	1206
Vogeler & Co., Charles A., Baltimore, Md. Composition food for infants and invalids	14,922	Nov. 8	41	582
Vogeler Company, Charles A., Baltimore, Md. Liniment	14,086	Feb. 22	38	786
Vogeler, Son & Co., Baltimore, Md. Perfumery and toilet-powders	13,959	Jan. 4	38	2
Vogt & Co., Adalbert, Friedrichsberg, Prussia, Germany. Putz-pomade	14,247	Apr. 5	39	2
Von Eckardstein, Ernst, Prötzel, Germany. Natural mineral water	14,507	June 14	39	1206
Wachter & Co., Epernay, France. Champagne-wine	14,136	Mar. 8	38	1020
Waitzfelder, Leopold, New York, N. Y. Plaid cotton goods	14,803	Oct. 4	41	2
Walden & Co., Philadelphia, Pa. Sherry wine	14,857	Oct. 25	41	358
Walden & Co., Philadelphia, Pa. Port wine	14,858	Oct. 25	41	358
Walden & Co., Philadelphia, Pa. Wines and brandies	14,891	Nov. 1	41	470
Walker & Son, Thomas, Birmingham, county of Warwick, England. Ship-logs and sounding-machines	14,420	May 17	39	712
Walker & Son, Thomas, Birmingham, county of Warwick, England. Ship-logs and sounding-machines	14,421	May 17	39	712
Walker & Son, Thomas, Birmingham, county of Warwick, England. Ship-logs	14,422	May 17	39	712
Walker & Son, Thomas, Birmingham, county of Warwick, England. Ship-logs and sounding-machines	14,450	May 24	39	836
Walter, Maurice C., Chicago, Ill. Face-powder	14,706	Aug. 23	40	814
Walter, Robert, Wernersville, Pa. Cereal foods, crackers, biscuits, and the like	14,627	July 19	40	250
Waltke & Co., William, St. Louis, Mo. Toilet or laundry soap	14,451	May 24	39	836
Waltke & Co., William, St. Louis, Mo. Laundry-soap	14,452	May 24	39	836
Waltke & Co., William, St. Louis, Mo. Laundry-soap	14,453	May 24	39	836
Waltke & Co., William, St. Louis, Mo. Laundry-soap	14,454	May 24	39	836
Wanamaker, John, Philadelphia, Pa. Silk dress goods	15,070	Dec. 27	41	1394
Ward & Co., Montgomery, Chicago, Ill. Family soap	14,377	May 10	39	592
Warne, Mark T., Easton, Pa. Comminuted agalmatolite and other clay-producing rock and ground crude clay	14,502	June 7	39	1088
Warner, Arthur H., New York, N. Y. Remedy for the cure of rheumatism and for internal use	14,479	May 31	39	964
Warner Brothers, New York, N. Y., and Bridgeport, Conn. Underwear	14,892	Nov. 1	41	470
Warner, Charles S., Boston, Mass. Tonic medicine	14,455	May 24	39	836
Warner & Co., William R., Philadelphia, Pa. Pills, parvules, granules, tablets, powders, extracts, effervescent salts, and medicinal elixirs, wines, and sirups	14,969	Nov. 22	41	820
Warren Featherbone Company, Chicago, Ill., and Three Oaks, Mich. Dress-stays, corsets, health-waists, and elastic body-supports	14,478	May 31	39	964
Warren Tube Company, Warren, Ohio. Metal tubes	14,768	Sept. 13	40	1140
Waters & Co., William T., Philadelphia, Pa. Brooms and whisks	14,673	Aug. 9	40	5-0
Waters Pierce Oil Company, St. Louis, Mo. Refined petroleum for illuminating purposes	14,522	June 14	39	1206
Waumbeck Company, Milton Mills, N. H. Tailors' suitings	14,144	Mar. 8	38	1020
Waumbeck Company, Milton Mills, N. H. Tailors' suitings	14,145	Mar. 8	38	1020
Weaver, James B., New York, N. Y. Toilet articles and perfumery	14,120	Mar. 1	38	902
Webber, Charles F., Boston, Mass. Medicinal preparations for allaying hoarseness and irritation of the throat	14,484	June 7	39	1088
Webber, William O., Lawrence and Boston, Mass., and New York, N. Y. Centrifugal pumps	14,945	Nov. 15	41	700
Weber, C. W. B., Stapleton, N. Y. Petroleum	14,362	May 3	39	472
Webster & Sargent, Minturn, Cal. Wines, brandies, and cordials	14,591	July 12	40	122
Wedmore, Henry S., Guilford, Conn. Pills	15,059	Dec. 20	41	1276
Wells, Ephraim S., Jersey City, N. J. Washing-powders and soaps	14,011	Jan. 25	38	334
Wells, William W., Freehold, N. J. Liniment	14,095	Feb. 22	38	786
Welsh & Lea, Philadelphia, Pa. Bolts and rivets	15,031	Dec. 13	41	1168
Wemple Company, Jay C., New York, N. Y. Window shadings and fixtures	15,071	Dec. 27	41	1394
Wemple, Ellerson & Co., Danville, Va. Fine plug and twist tobacco	14,303	Apr. 19	39	248
Wemple, Ellerson & Co., Danville, Va. Fine plug and twist tobacco	14,304	Apr. 19	39	248
Werner, August, New York, N. Y. Cider	14,271	Apr. 12	39	124
Werner, August, New York, N. Y. Cider	14,272	Apr. 12	39	124
West, Gustin H., Chelsea, Mass. Paste blacking or polish for stoves	14,161	Mar. 8	38	1020
Westheimer & Sons, F., St. Joseph, Mo. Whisky	14,456	May 24	39	836
Weston, Charles B., Brooklyn, N. Y. Shaving-tonic	14,812	Oct. 11	41	128
Weymouth & Co., L. B., Chicago, Ill. Ointment	14,042	Feb. 1	38	422
Wheelwright, Anderson & Co., Boston, Mass. Satteens	14,146	Mar. 8	38	1020
White, Joseph A., Deposit, N. Y. Preparation for the hair	14,628	July 19	40	250
White, William J., Cleveland, Ohio. Chewing-gum	15,009	Dec. 6	41	1046
Whitman Saddle Company, New York, N. Y. Riding-saddles	14,255	Apr. 5	39	2
Wiebusch & Hilger, New York, N. Y. Cutlery of all kinds	14,662	Aug. 2	40	450
Wilbor & Co., Albert G., Boston, Mass. Dermal emollient	14,174	Mar. 15	38	1134
Wilcox, J. Fred, and L. H. Hyde, Joliet, Ill. Wheat-flour	14,183	Mar. 22	38	1252
Wilcox, J. Fred, and L. H. Hyde, Joliet, Ill. Wheat-flour	14,184	Mar. 22	38	1252
Wilhelm, A., Reading, Pa. Paints in paste form and mixed ready for use	14,373	May 10	39	592
Wilkinson, Gaddis & Co., Newark, N. J. Canned tomatoes, peaches, and corn	14,893	Nov. 1	41	470
Williams & Co., Thomas C., Richmond, Va. Plug and smoking tobacco	14,946	Nov. 15	41	700
Williams, Joseph, Sharpsburg, Pa. Grease or tallow for lubricating purposes	14,175	Mar. 15	38	1134
Willimantic Linen Company, Willimantic, Conn., and New York, N. Y. Six-cord spool-cotton	15,004	Dec. 6	41	1046
Willis & Co., Joseph M., Crawfordsville, Ind. Remedy compounded of roots, herbs, and barks for chronic diseases	14,663	Aug. 2	40	450
Wilson, Alexander, Philadelphia, Pa. Remedy for lung and throat diseases	13,982	Jan. 11	38	110
Wiltse, William, Jr., Placerville, Cal. Remedy for all diseases of the throat and lungs	14,162	Mar. 8	38	1020
Wing, Levi J., New York, N. Y. Exhaust or fan wheel	14,824	Oct. 11	41	128
Winters, Edgar, Owego, N. Y. Remedy for toothache	14,947	Nov. 15	41	700
Witherstine, Horatio P., Herkimer, N. Y. Ointment and medicated soap	14,091	Feb. 22	38	786
Wolf, George L., Baltimore, Md. Wine	14,312	Apr. 19	39	248
Woodbridge & Co., R. A., Baltimore, Md. Guano	15,010	Dec. 6	41	1046
Woodbridge & Co., R. A., Baltimore, Md. Artificial guano	15,032	Dec. 13	41	1168
Wright, Charles, Detroit, Mich. Cough-drops	14,599	July 12	40	1-2
Wright, Charles, Detroit, Mich. Cough-sirups	14,629	July 19	40	250
Wright & Co., John A., Keene, N. H. Cleaning-powder for metals and glass	14,565	June 28	39	1430
Wright, George W., Pensacola, Fla. Sawed pitch-pine lumber and sawed cypress shingles	14,564	June 28	39	1430
Wright, Virgil S., Louisville, Ky. Cigars	14,543	June 21	39	1330
Wunderle, Philip, Philadelphia, Pa. Confectionery	14,845	Oct. 18	41	238
Wunderle, Philip, Philadelphia, Pa. Confectionery	14,846	Oct. 18	41	238

Alphabetical list of registrants of trade-marks--Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Yergin, Hannah O., Paris, Ill. Face-powder	14,248	Apr. 5	39	2
York, Chauncey F., Warrior's Mark, Pa. Salve or ointment for toilet or medicinal use	14,220	Mar. 29	38	1370
Young, Ladd & Coffin, New York, N. Y. Perfumery	14,313	Apr. 19	39	248
Young & Walton, Boston, Mass. Liquid preparation used in dyeing	14,825	Oct. 11	41	128
Zimmer, Frederick W., New York, N. Y. Ink, gelatinized paper, and the accessories for hectograph copying, and a kit for working the same	15,011	Dec. 6	41	1046
Zimmern, Henry, New York, N. Y. Watch-mainsprings	15,046	Dec. 20	41	1276
Zwirner & Naehfadenfabrick Goeggingen, Augsburg, Germany. Cotton threads and yarns of all kinds	14,325	Apr. 26	39	366
Zwirner & Naehfadenfabrick Goeggingen, Augsburg, Germany. Cotton threads and yarns of all sorts	14,368	May 10	39	592
Zwirner & Naehfadenfabrick Goeggingen, Augsburg, Germany. Cotton threads and yarns of all kinds	14,369	May 10	39	592
Zwirner & Naehfadenfabrick Goeggingen, Augsburg, Germany. Cotton threads and yarns of all sorts	14,370	May 10	39	592

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Volume.	Page.
Abrams, Lyman H., Philadelphia, Pa. "Chemical & Vegetable Preparation." (for Painting Purposes)	5,132	Mar. 1	38	902
Althans, Rudolf, New York, N. Y. "Althans & Co's Preventive," (For a Medicine)	5,411	Nov. 15	41	700
American Carbonate Company, New York, N. Y. "Acid," (For Mineral Waters)	5,312	Aug. 2	40	450
Andrews, Frank, Chicago, Ill. "Veterinary Arnica Jelly"	5,087	Jan. 18	38	234
Armstrong, Martin L., Harshville, Pa. "Elm Bark Salve"	5,234	June 7	39	1088
Arpin, Antoine, Grand Rapids, Wis. "Antoine Arpin's Pain Exterminator" (for a Medicine)	5,278	July 5	40	2
Angier, Albert E., Newton, Mass. "Petroleum Emulsion"	5,373	Oct. 25	41	358
Austin, Albert N. (See Ring and Austin.)				
Ayer, A. D., and J. Ritchie, Durham, Conn. "Alnus Destillata," (for a Preparation of Tag Alder)	5,077	Jan. 11	38	110
Ayres & Sons, William, Philadelphia, Pa. "5/A Horse Blanket"	5,211	May 17	39	712
Ayres & Sons, William, Philadelphia, Pa. "5/A Five Mile." (For Horse Blankets)	5,212	May 17	39	712
Ayres & Sons, William, Philadelphia, Pa. "Extra Test." (For Horse Blankets)	5,442	Dec. 20	41	1276
Babbitt, B. T., New York, N. Y. "B. T. Babbitt 88 "Soap" 88 New York City. A Perfect Toilet Soap"	5,108	Feb. 8	38	546
Baldwin, David, New York, N. Y. "Parlor Volcanos." (For Fireworks for Parlor Use)	5,225	May 31	39	964
Bangs, Bard & Co., Baltimore, Md. "Solid Leather Counters, City Made." (for Boots and Shoes)	5,078	Jan. 11	38	110
Barnes Whip Company, A. C., Westfield, Mass. "Eel-Skin Lined," (For Carriage Whips)	5,401	Nov. 8	41	582
Barr, E. T., Bowling Green, Ky. "Dr E. T. Barr's Local Anæsthetic," (For the Painless Extraction of Teeth)	5,358	Oct. 11	41	128
Bates Medicine Co., Eldred, Pa. "Dr. Bates' Electro-Magnetic Cure"	5,355	Oct. 4	41	2
Baudot, Joseph, Boston, Mass. "A. D. Bizemont's Elixiere"	5,374	Oct. 25	41	358
Beach, Hubert C., Malden, and G. F. Clarridge, Somerville, Mass. "Standard Nerve Food"	5,154	Mar. 15	38	1134
Bear, Samuel, Brooklyn, N. Y. "Great Temperance Drink, O-K Blood and Nerve Tonic"	5,287	July 12	40	122
Beck & Co., W. E., Vicksburg, Miss. "Phosphate Sherbet"	5,313	Aug. 2	40	450
Bell & Co., William G., Boston, Mass. "Bell's Poultry Spiced Seasoning"	5,091	Jan. 25	38	334
Best Brewing Company, Phillip, Milwaukee, Wis. "Best" Tonic"	5,188	Apr. 12	39	124
Bidaman, Israel, New York, N. Y. "Safe Arsenic Complexion Wafers"	5,213	May 17	39	712
Billings, John T., Denver, Colo. "Linseed Cream," "(Perfumed)," (For a Toilet Preparation)	5,359	Oct. 11	41	128
Birdsall, Eliza R. M., Binghamton, N. Y. "Tulip Root, a Special Cure for Rheumatism"	5,451	Dec. 27	41	1394
Bishop, A. C., Valparaiso, Ind. "Sure Cure for Hog Cholera"	5,320	Aug. 16	40	698
Bittner, George C. and M. A., Toledo, Ohio. "Dr Hebra's Viola Cream"	5,073	Jan. 4	38	2
Bittner, Minnie A. (See Bittner, George C. and M. A.)				
Blair, George W., Providence, R. I. "Dressing for Russia Iron."	5,297	July 19	40	250
Blakelock, Ralph A., New York, N. Y. "Blakelock's Retouching Varnish"	5,217	May 24	39	836
Blaney, Frank M., Baltimore, Md. "Blaney's Ague Mixture"	5,412	Nov. 15	41	700
Bloch, Hajman, New York, N. Y. "United Tinsmiths of America"	5,092	Jan. 25	38	334
Bosanko Medicine Co., Piqua, Ohio. "Dr Gunn's Improved Liver Pills"	5,172	Mar. 29	38	1370
Boss & Son, C. D., New London, Conn. "Boss Lunch Milk Biscuit"	5,343	Sept. 13	40	1140
Bowes, William W., Atlanta, Ga. "Chronic Disease Pills"	5,375	Oct. 25	41	358
Bradfield Regulator Company, Atlanta, Ga. "The Mother's Friend," (for a Medicine)	5,083	Jan. 11	38	110
Bradfield Regulator Company, Atlanta, Ga. "Female Regulator," (for a Medicine)	5,084	Jan. 11	38	110
Bragdon Manufacturing Company, Cape May, N. J. "Bragdon's Specific," (For a Remedy for Diseases of Poultry)	5,175	Apr. 5	39	2
Branch, Henry E., Providence, R. I. "White Blacking or English Cream Dressing" (For Harness and Leather)	5,348	Sept. 20	40	1246
Brian, Sallie S., Baltimore, Md. "Florida Cheroots"	5,130	Feb. 22	38	786
Brinkerhoff, & Co., H. J., Jr., Gettysburg, Pa. "The Celebrated Gettysburg Cigar"	5,184	Apr. 12	39	124
Broad & Co., F. H., Lynn, Mass. "Dr King's Summer Cordial"	5,329	Aug. 30	40	922
Brook, John B., St. Louis, Mo. "Brook's Rawhide Fibre Trunk"	5,353	Oct. 4	41	2
Brower & Co., John, New York, N. Y. "Genuine Potash"	5,142	Mar. 8	38	1020
Brown, Hattie S. (See Crossman and Brown.)				
Burke, Richard. (See O'Connor and Burke.)				
Burrill, John, Brooklyn, N. Y. "Pine Balsam"	5,079	Jan. 11	38	110
Burwell, Lewis W., Richmond, Va. "Thompson's Bromine and Arsenic Springs Water"	5,176	Apr. 5	39	2
Campbell Bros., Nashville, Tenn. "Dr. Sam'l Hodges' Alterative Compound Sarsaparilla with Iodide Potash"	5,214	May 17	39	712
Campbell & Co., Roderick, Utica, N. Y. "Campbell's Celebrated Rheumatic Remedy"	5,321	Aug. 16	40	698
Campbell, James P., New York, N. Y. "Dr Campbell's Arsenic Complexion Wafers"	5,185	Apr. 12	39	124
Carey, Abbie K. T. R., Boston, Mass. "Mrs. A. K. T. R. Carey's Preserve Jar Cover"	5,155	Mar. 15	38	1134
Carnachan, James G. (See Shryock, Carnachan, and Irvin.)				
Carpenter, Charles C., New York, N. Y. "Carpenter's Automatic Lace-Back Brace"	5,074	Jan. 4	38	2
Carpenter & Co., E. F., Jamestown, N. Y. "Jamestown Axe Co. E. F. Carpenter & Co. Proprietors, Extra Refined Cast Steel Axes, Jamestown, N. Y."	5,275	June 28	39	1430
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. "Carter's Safety Ink"	5,418	Nov. 22	41	820
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. "Carter's Indelible Household Ink"	5,419	Nov. 22	41	820
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. "Carter's Safety Ink"	5,420	Nov. 22	41	820
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. "Carter's Indelible Ink"	5,421	Nov. 22	41	820
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. "Carter's Household Indelible Ink"	5,422	Nov. 22	41	820
Carter, Margaret G., New York, N. Y. "Mrs M. G. Carter's Hair Invigorator and Pain Destroyer"	5,429	Dec. 6	41	1046
Cartwright, James, Watertown, Mass. "Cartwright's Liquid Exterminator," (For an Insecticide)	5,163	Mar. 22	38	1252
Celery Beef and Iron Extract Company, San Francisco, Cal. "Celery Cough Wafers"	5,164	Mar. 22	38	1252
Cervinka, Joseph, Chicago, Ill. "The Finest in the World, Bohemian Soap of Joseph Cervinka"	5,201	May 3	39	472
Chadwick, Lillie A., New Bedford, Mass. "Black Liniment"	5,360	Oct. 11	41	128
Cheatham, Mathew V. (See Richards and Cheatham.)				
Christian & Piazza, Kansas City, Mo. "El Preservativo Cubano." (For Cigar Preservatives)	5,197	Apr. 19	39	248
Clark, J. Miller, Parkesburg, Pa. "J. M. Clark's Live Stock Medicine"	5,250	June 14	39	1206
Clarke, Charles, Lawrence, Mass. "Wood's Dog Remedy"	5,090	Jan. 18	38	234
Clarkson & George, Black Brook, N. Y. "Dr George's Dyspeptic Specific"	5,402	Nov. 8	41	582
Clarridge, George F. (See Beach and Clarridge.)				
Cleaveland, Charles F., Indianapolis, Ind. "Carbolic Smoke Ball"	5,349	Sept. 27	40	1344

Alphabetical list of registrants of labels — Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Cleveland, Valentine W., Kansas City, Mo. "A Savior's Liniment".....	5,235	June 7	39	1088
Coates, James. (See Wiggs and Coats.)				
Congreve, George T., Peckham, county of Surrey, England. "Congreve's Balsamic Elixir".....	5,101	Feb. 1	38	422
Congreve, George T., Peckham, county of Surrey, England. "Dr Flemming's Quinine and Camphor Pills".....	5,102	Feb. 1	38	422
Conover, Emeline H., Washington, D. C. "Forche's Rheumatic Soap".....	5,119	Feb. 22	38	786
Conroy, John W., Chicago, Ill. "Conroy's Wonderful Discovery," (For a Medicine).....	5,354	Oct. 4	41	2
Conzelman, Louise, St. Louis, Mo. "Dr. J. Conzelman's Celebrated Cough Syrup".....	5,372	Oct. 18	41	238
Coopers' Mutual Protective Association of Baltimore, Baltimore, Md. "C. M. P. A. 2208," (for Barrels, Kegs and Tanks).....	5,133	Mar. 1	38	902
Coote, William H., and J. W. Guerrant, Marion, Ark. "Rio Cider".....	5,376	Oct. 25	41	358
Cox, Clark. (See Cox, James C. and C.)				
Cox, James C and C., Alton, Ill. "Cox's Vegetable Dyspepsia Cure".....	5,350	Sept. 27	40	1344
Crosby, E. W., Albany, N. Y. "Crosby's Cough Cure".....	5,085	Jan. 11	38	110
Crossman, Charles P., West Warren, and H. S. Brown, Springfield, Mass. "Business Envelope".....	5,430	Dec. 6	41	1046
Cummings, Frederick, and H. S. Worden, Sand Beach, Mich. "French Rheumatic Cure".....	5,263	June 28	39	1430
Davidson, Henry M., Ogdensburg, N. Y. "Davidson's Compound Elixir of Food Phosphates".....	5,415	Nov. 15	41	700
Davies, E. Gomer, De Smet, Dak. "Dr. Davies' Dakota Cholera Cure".....	5,303	July 26	40	350
Day, Walter L., New York, N. Y. "Day's Neuralgia Cure".....	5,377	Oct. 25	41	358
Dement, W. E., Astoria, Oreg. "White Oak Liniment".....	5,403	Nov. 8	41	582
Dement, W. E., Astoria, Oreg. "Wilson's Hair Tonic".....	5,404	Nov. 8	41	582
Dement, W. E., Astoria, Oreg. "Mexican Salve".....	5,425	Nov. 29	41	938
Dement, W. E., Astoria, Oreg. "Hall's Juniper Kidney Cure".....	5,426	Nov. 29	41	938
Deming, Arthur B., Chicago, Ill. "Deming's Charcoal the Great Absorption Carbon Cure".....	5,109	Feb. 8	38	546
Deming, Arthur B., Chicago, Ill. "Deming's Charcoal, The Great Carbon Renovator, etc".....	5,192	Apr. 19	39	248
Deming, Arthur B., Chicago, Ill. "Deming's Charcoal Directory".....	5,431	Dec. 13	41	1168
Derby, Emma A., Boston, Mass. "Great African Anti-Malarial," (For a Medicine).....	5,251	June 14	39	1206
Detchon, Irwin A., Crawfordsville, Ind. "Detchon's Rheumatism and Neuralgia Cure.".....	5,298	July 19	40	250
Dickins & Co., H. C., Louisville, Ky. "Dr. Gunn's Family Pills".....	5,093	Jan. 25	38	334
Dixon, Joseph, New York, N. Y. "Nice Drinks," (For an Air Pump for Aerating Drinks).....	5,110	Feb. 8	38	546
Dodge, R. P., Atlanta, Ga. "Dodge's Certain Chicken Cholera Cure".....	5,106	Feb. 8	38	546
Drake, Arathena B., South Boston, Mass. "Dr Drake's Hair Restorative".....	5,252	June 14	39	1206
Dr. Miles Medical Company, Elkhart, Ind. "Nerve and Liver Pills".....	5,288	July 12	40	122
Dr. Miles Medical Company, Elkhart, Ind. "New Cure" (for Remedy for Heart Disease).....	5,289	July 12	40	122
Duckworth, Ormerod, Philadelphia, Pa. "Duckworth's Salts of Fruits".....	5,189	Apr. 12	39	124
Durfee, C. B., Henry, Ill. "Durfee's Sure Cure for Hay Fever, Rose Cold, and Nasal Catarrh".....	5,075	Jan. 4	38	2
Earle, Eugene M., New York, N. Y. "The London Harness Agency," (For Saddlery, Harness Gear, &c).....	5,226	May 31	39	964
Eaton & Co., John, Albany, N. Y. "The Peerless Tonic and Blood Purifier".....	5,202	May 3	39	472
Ebner, Alfred, Brooklyn, N. Y. "Pilwar," (For Cordial).....	5,236	June 7	39	1088
Eisner & Mendelson Company, Philadelphia, Pa. "Mühlbrunn," (For Natural Mineral Waters and Salt).....	5,378	Oct. 25	41	358
Eisner & Mendelson Company, Philadelphia, Pa. "Sprudel," (For Natural Mineral Waters and Salt).....	5,379	Oct. 25	41	358
Eisner & Mendelson Company, Philadelphia, Pa. "Schlossbrunn," (For Natural Mineral Waters and Salt).....	5,380	Oct. 25	41	358
Ellery, Charles, Albany, N. Y. "Ellery's Sulphur Lozenges".....	5,253	June 14	39	1206
Fairbank & Company, N. K., Chicago, Ill., St. Louis, Mo., New York, N. Y., and Omaha, Nebr. "Tom, Dick & Harry," (for Family Soap).....	5,100	Jan. 25	38	334
Fairbank & Co., N. K., Chicago, Ill., St. Louis, Mo., New York, N. Y., and Omaha, Nebr. "St Nicholas Soap".....	5,198	Apr. 26	39	366
Favier, Albert J., Boston, Mass. "Mme. A. Favier's Prepared Seasoning".....	5,218	May 24	39	836
Fernando, M. Doctus, New York, N. Y. "The Fernando," (For a Cleaning and Polishing Preparation).....	5,443	Dec. 20	41	1276
Fisher, J. M., New York, N. Y. "Cydonia Cream," (For a Toilet Preparation).....	5,120	Feb. 22	38	786
Fitch, Asa M., Seymour, Ind. "Fitch's Tolu," (for Chewing Gum).....	5,097	Jan. 25	38	334
Fitch & Co., A. M., Seymour, Ind. "Fitch's Game of Natural History".....	5,322	Aug. 23	40	814
Fleming, Joseph E., Pittston, Pa. "Miners' 10c. Stick Salve".....	5,361	Oct. 11	41	128
Fournier & Knopf, Felix, New York, N. Y. "T. M." (Blacking for Boots and Shoes).....	5,405	Nov. 8	41	582
Fournier & Knopf, Felix, New York, N. Y. "T. M." (For Blacking for Boots and Shoes).....	5,406	Nov. 8	41	582
Fournier & Knopf, Felix, New York, N. Y. "T. M." (For Blacking for Boots and Shoes).....	5,407	Nov. 8	41	582
Fretz, Samuel S., Philadelphia, Pa. "Lisle-Spun," (For Umbrellas and Parasols).....	5,227	May 31	39	964
Frye, Alice H., Salem, Mass. "Beau Brummel," (for Perfumery or Toilet Waters).....	5,143	Mar. 8	38	1020
Geer, George S., Troy, N. Y. "Indestructible Fuel Cartridge".....	5,330	Aug. 30	40	922
George, Robert, Chicago, Ill. "Chicago Carbon Stove Polish".....	5,228	May 31	39	964
Gouinlock & Co., W. C., Warsaw, N. Y. "Wyoming Factory Filled".....	5,432	Dec. 13	41	1168
Gowan, George, Brooklyn, N. Y. "Prof. Gowan's Great Scotch Rheumatism Cure".....	5,179	Apr. 12	39	124
Graff, Henry, New York, N. Y. "Graff's Pile Salve, is a Safe and Sure Cure for Piles".....	5,362	Oct. 11	41	128
Green, Martin V. and W. S. J., Smithfield, N. C. "Green's Chill Cure and Blood Purifier".....	5,331	Aug. 30	40	922
Green & Sons, H. H., Atlanta, Ga. "Dr. H. H. Green & Son's Chill and Fever Specific".....	5,156	Mar. 15	38	1134
Green, Walter S. J. (See Green, Martin V. and W. S. J.)				
Greer, John H., Lawrence, Mass. "German Catarrh Cure".....	5,237	June 7	39	1088
Greule, Albert M., Newport, Ky. "Natro-Saline".....	5,344	Sept. 13	40	1140
Griggs, Henry S., New York, N. Y. "Dr. Newton's Eye Water".....	5,433	Dec. 13	41	1168
Groff, Charles R., St. Paul, Minn. "Baking Powder Manufactured only by the Columbia Baking Powder Co".....	5,238	June 7	39	1088
Gross & Co., E. R., Philadelphia, Pa. "Extract of Oats and Barley".....	5,264	June 28	39	1430
Gross & Co., E. R., Philadelphia, Pa. "Barley Oats," (For Extract of Oats and Barley).....	5,265	June 28	39	1430
Gross & Co., E. R., Philadelphia, Pa. "Oats and Barley," (For Extract of Oats and Barley).....	5,266	June 28	39	1430
Gross & Co., E. R., Philadelphia, Pa. "Oats Barley," (For Extract of Oats and Barley).....	5,267	June 28	39	1430
Gross & Co., E. R., Philadelphia, Pa. "Barley and Oats," (For Extract of Oats and Barley).....	5,268	June 28	39	1430
Gross & Co., E. R., Philadelphia, Pa. "Avena" (for Extract of Oats and Barley).....	5,279	July 5	40	2
Gross Company, E. R., Philadelphia, Pa. "Oats and Barley Malt".....	5,323	Aug. 23	40	814
Gross, E. R., Philadelphia, Pa. "Cereal Extract of Oats and Barley".....	5,144	Mar. 8	38	1020
Guerrant, John W. (See Coote and Guerrant.)				
Guider & Co., Boston, Mass. "O. K. Cleansing Fluid," (for Removing Stains from Fabrics).....	5,332	Aug. 30	40	922
Hafer, John H., Bedford, Pa. "Hafer's Celebrated Chalybeate Cure," (For an Ointment).....	5,276	June 28	39	1430
Hahn, William F., Newton, Mass. "Dr. Rupert's Own, No. 9,765, Prescription".....	5,199	Apr. 26	39	366
Hall, Albert S., and C. W. Logan, Baltimore, Md. "Hall's Chill Cure".....	5,094	Jan. 25	38	334
Hall, Hugh. (See Wallace and Hall.)				
Hall, James E., Hall's Park, Lexington, Mo. "Hall's Rheumatic Remedy," (For a Medicine).....	5,178	Apr. 5	39	2
Ham Manufacturing Company, C. T., Rochester, N. Y. "Triangular Tubular Lamp".....	5,080	Jan. 11	38	110
Ham Manufacturing Company, C. T., Rochester, N. Y. "Side Lift," (For Lamps and Lanterns).....	5,206	May 10	39	592
Hardwicke, Mary E., Sheffield, county of York, England. "Van Lieben's Antiseptic Skin Soap".....	5,314	Aug. 2	40	450

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Hardwicke, Mary E., Sheffield, county of York, England. "Du Morry's Malto-Phosphatic Food" ..	5,427	Nov. 29	41	938
Haswell, Wm. S., Denver, Colo. "Witch-Hazel Cream." (For a Preparation for the Skin)	5,121	Feb. 22	38	786
Haswell, William S., Denver, Colo. "Witch Hazel Soap"	5,381	Oct. 25	41	358
Hatch, James L., Rochester, N. Y. "The Hatch "Rochester Counter." (for Boots and Shoes) ..	5,165	Mar. 22	38	1252
Hayner Distilling Co., Springfield, Ohio. "Hayner's Pine Apple Drips"	5,413	Nov. 15	41	700
Hayner, Thomas H., Portsmouth, Va. "Cream of Tartar Baking Powder"	5,239	June 7	39	1088
Hazlett & Co., (limited,) S., Washington, Pa. "Pearl White Lead"	5,134	Mar. 1	38	902
Heaton, David H. (See Heaton, John C., L. D., and D. H.)				
Heaton, John C. and L. D., Victoria, Tex. "Heaton's Mullein, Tolu, and Tar, Cough Remedy" ...	5,111	Feb. 15	38	664
Heaton, John C. and L. D., Victoria, and D. H. Heaton, Cuero, Tex. "Heaton's Screw Worm Oil".	5,112	Feb. 15	38	664
Heaton, Lorenzo D. (See Heaton, John C. and L. D.)				
Heaton, Lorenzo D. (See Heaton, John C., L. D., and D. H.)				
Heer, Charles M., Baltimore, Md. "Celery Wine"	5,229	May 31	39	964
Heiby, Philip, Delaware, Ohio. "The Celebrated California Liniment"	5,269	June 28	39	1430
Heinz, F. & J., Pittsburg, Pa. "Heinz's" (For Pickles and Condiments)	5,103	Feb. 1	38	422
Hendley, James, and H. Marsh, Middletown, Conn. "Hendley & Marsh's Healing Salve"	5,240	June 7	39	1088
Herzog & Bro., H., Agents, Pittsburg, Pa. "Workingmen's Pants"	5,363	Oct. 11	41	128
Higgin, Martin P., New Orleans, La. "M. P. Higgin's Blood Purifier and Health-Giving Elixir" ..	5,270	June 28	39	1430
Higgins, Charles M., Brooklyn, N. Y. "Waterproof Writing Ink"	5,177	Apr. 5	39	2
Higgins, Charles M., Brooklyn, N. Y. "Water proof Green Ink"	5,180	Apr. 12	39	124
Hill, Byron, Lawrence, Mass. "Sanitary Soap"	5,203	May 3	39	472
Hocker, James W., Gainesville, Tex. "Brimmer's Oil." (For a Medicine)	5,254	June 14	39	1206
Hollenback, D. S., Shamokin, Pa. "Hollenback's." (For a Cough Syrup)	5,345	Sept. 13	40	1140
Hollerbach, J. Franz, New Orleans, La. "O. K. Tolu Chewing Gum"	5,166	Mar. 22	38	1252
Home Yeast Cake Company, Chicago, Ill. "Home Yeast Cakes"	5,081	Jan. 11	38	110
Hop Pill Manufacturing Company, New London, Conn. "Little Hop Pills"	5,304	July 26	40	350
Hop Pill Manufacturing Company, New London, Conn. "Hop Ointment"	5,305	July 26	40	350
Hop Pill Manufacturing Company, New London, Conn. "Veterinary Hop Ointment"	5,315	Aug. 2	40	450
Hop Pill Manufacturing Company, New London, Conn. "Veterinary Hop Ointment"	5,416	Nov. 15	41	700
Horn, Wilbur F., Carlisle, Pa. "Ready for Headache," "Horn's Great Headache and Neuralgia Spe- cific"	5,444	Dec. 20	41	1276
Horton, Alexander F., Brooklyn, N. Y. "Cervicene" (For a Suppository)	5,434	Dec. 13	41	1168
Horton, Alexander F., Brooklyn, N. Y. "Cervicene," (For a Suppository)	5,445	Dec. 20	41	1276
Hough, Howard M. (See Lynde and Hough.)				
Howard, George, La Crosse, Wis. "Lactine Pills"	5,157	Mar. 15	38	1134
Huff, Robert E., Eureka, Kans. "Extract of Tea"	5,393	Nov. 1	41	470
Hutchison, H. G. and J. A., Atlanta, Ga. "Pope's Fragrant Elder Flower Lotion"	5,216	May 17	39	712
Hutchison, J. A. (See Hutchison, H. G. and J. A.)				
Hyatt Company, New York, N. Y. "Red Lined Cedrinated Carpet Lining"	5,356	Oct. 4	41	2
Illingworth, Thomas, Bradford, county of York, England. "Beaver Finish," (For Cloths)	5,316	Aug. 2	40	450
Illingworth, Thomas, Bradford, county of York, England. "Seal Finish," (For Cloths)	5,317	Aug. 2	40	450
Irvin, Edmond L. (See Shryock, Carnachan, and Irvin.)				
James, Emile, New York, N. Y. "German Politype Universal Feed Cylinder Sewing Machines" ..	5,204	May 3	39	472
Jennison Bros. & Co., Janesville, Minn. "Hard to Beat." (For Flour)	5,306	July 26	40	350
Jury, H. M., Newark, N. J. "Dr Chas. Jury's." (For a Liniment)	5,173	Mar. 29	38	1370
Kemp & Sons, Lysander, Cambridge, Mass. "Wholesome Soap"	5,095	Jan. 25	38	334
Kendall, William R., Philadelphia, Pa. "Gout and Rheumatic Remedy"	5,290	July 12	40	122
Kent, D. Harley, Jamaica Plain, Boston, Mass. "No. 1. D. Harley Kent's Specific Remedies. Ab- solutely Pure. No. 1 for the Blood. No. 2 for the Liver. No. 3 for the Kidneys. No. 4 for Rheu- matism. No. 5 for Dyspepsia"	5,258	June 21	39	1330
Kent, D. Harley, Jamaica Plain, Boston, Mass. "No. 2. D. Harley Kent's Specific Remedies. Ab- solutely Pure. No. 1 for the Blood. No. 2 for the Liver. No. 3 for the Kidneys. No. 4 for Rheu- matism. No. 5 for Dyspepsia"	5,259	June 21	39	1330
Kent, D. Harley, Jamaica Plain, Boston, Mass. "No. 3. D. Harley Kent's Specific Remedies. Ab- solutely Pure. No. 1 for the Blood. No. 2 for the Liver. No. 3 for the Kidneys. No. 4 for Rheu- matism. No. 5 for Dyspepsia"	5,260	June 21	39	1330
Kent, D. Harley, Jamaica Plain, Boston, Mass. "No. 4. D. Harley Kent's Specific Remedies. Ab- solutely Pure. No. 1 for the Blood. No. 2 for the Liver. No. 3 for the Kindeys. No. 4 for Rheu- matism. No. 5 for Dyspepsia"	5,261	June 21	39	1330
Kent, D. Harley, Jamaica Plain, Boston, Mass. "No. 5. D. Harley Kent's Specific Remedies. Ab- solutely Pure. No. 1 for the Blood. No. 2 for the Liver. No. 3 for the Kidneys. No. 4 for Rheu- matism. No. 5 for Dyspepsia"	5,262	June 21	39	1330
Kenyon & Thomas, Adams, N. Y. "Dr. Hale's Household Ointment"	5,435	Dec. 13	41	1168
Kerr Bro. & Co., Alex., Philadelphia, Pa. "Kerr Salt Co.," (for Salt)	5,291	July 12	40	122
Kerr Bro. & Co., Alex., Philadelphia, Pa. "Kerr Salt Co.," (for Salt)	5,292	July 12	40	122
Kidney, Alfred H., New York, N. Y. "Perfect Harness Dressing"	5,364	Oct. 11	41	128
La Bonde, George, St. Louis, Mo. "Kuefer Union No. 3, St. Louis, Mo.," (For Beer Barrels and Kegs, &c)	5,241	June 7	39	1088
Lagrang, Margaret M., Worcester, Mass. "Mrs. Lagrang's Rubbing Liniment"	5,200	Apr. 26	39	366
Lake, Ann E., Rahway, N. J. "Madame Lake's Electric Bitters"	5,219	May 24	39	836
Lapp Drug Company, Philadelphia, Pa. "Hassell's Easy to Take Worm Syrup"	5,365	Oct. 11	41	128
Latus, F. & J. C., Terryville, Conn. "Silver Cleaner." (for a Compound)	5,145	Mar. 8	38	1020
Law, James A., New York, N. Y. "Law's Label for Spools," (For Spools of Thread)	5,271	June 28	39	1430
Lazell, Dalley & Co., New York, N. Y. "Florida Water Prepared by Lazell, Dalley & Co. New York"	5,446	Dec. 20	41	1276
Le Page's Liquid Glue and Cement Company, Gloucester, Mass. "Le Page's Liquid Glue"	5,230	May 31	39	964
Le Page's Liquid Glue and Cement Company, Gloucester, Mass. "W. N. Le Page's Improved Liquid Glue"	5,231	May 31	39	964
Levy, Abraham, New York, N. Y. "The Prize Overcoat"	5,293	July 12	40	122
Levy, Abraham, New York, N. Y. "The Prize Suit"	5,294	July 12	40	122
Lighthill, August P., Boston, Mass. "Nebulizer. An Apparatus to Reduce Liquids into a Nebu- lous or Fog-like State"	5,122	Feb. 22	38	786
Lippincott, J. P., Mount Holly, N. J. "Lippincott's Cancer Salve"	5,280	July 5	40	2
Logan, Charles W. (See Hall and Logan.)				
Loss, W. B., Chicago, Ill. "Universal Piano Polish"	5,295	July 12	40	122
Lougee Medicine Company, Lynn, Mass. "Dr. R. W. Lougee's Vitalizing Compound"	5,307	July 26	40	350
Lougee Medicine Company, Lynn, Mass. "Dr. R. W. Lougee's Juniper Kidney Cure"	5,308	July 26	40	350
Lougee Medicine Company, Lynn, Mass. "Dr. R. W. Lougee's Clover Cure for Female Weak- ness"	5,309	July 26	40	350
Lowery, J. H., Avon, Pa. "Pain Extractor"	5,113	Feb. 15	38	664
Lowney, Walter M., Boston, Mass. "Lily Chocolate Cream Drop"	5,135	Mar. 1	38	902
Lowrey, John T., We-wo-ka, Indian Ter. "The Indian Doctor's Chill Pills"	5,146	Mar. 8	38	1020
Lukens, Emmor L. (See Lukens, Levi L. and E. L.)				
Lukens, Levi L. and E. L., Chester, Pa. "Lukens' Spavin Cure"	5,346	Sept. 13	40	1140

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Lynde, William C., and H. M. Hough, San Francisco, Cal. "Doctor Fisherman's Improved Carbolyzed Alkaline Lotion".....	5,147	Mar. 8	38	1020
Lyon & Healy, Chicago, Ill. "Conservatory Violin Strings".....	5,086	Jan. 11	38	110
Madlener, Fridolin, Chicago, Ill. "Glüh Wein Extract." (Extract of Mulled Claret).....	5,436	Dec. 13	41	1168
Marcellus, Thomas J., New York, N. Y. "Aix la Chapelle Soft Sulphur Soap".....	5,148	Mar. 8	38	1020
Markley & Sons, Wabash, Ind. "Markley's Positive Catarrh Cure".....	5,149	Mar. 8	38	1020
Marsh, Henry. (See Hendley and Marsh.)				
Martin & Co., L., Philadelphia, Pa. "Car Painters." (For Lamp-Black).....	5,408	Nov. 8	41	582
Mason & Co., New York, N. Y. "Chocolate Bonbons".....	5,281	July 5	40	2
Mathis, Charles B., Tom's River, N. J. "Hainer's Cough Syrup".....	5,437	Dec. 13	41	1168
Mayo & Brother, P. H., Richmond, Va. "Mayo's Cut Cavendish," (For Tobacco).....	5,417	Nov. 15	41	700
Mayo & Brother, P. H., Richmond, Va. "Mayo's Cut Cavendish".....	5,428	Nov. 29	41	938
McCray, Guilford W., Buffalo, N. Y. "Liquid Dover's," (For a Solution of Dover's Powder).....	5,382	Oct. 25	41	358
McLaughlin, W. F., Chicago, Ill. "Milk Baking Powder".....	5,347	Sept. 13	40	1140
McNeil, Robert, Jr., Philadelphia, Pa. "McNeil's Iron Plaster".....	5,383	Oct. 25	41	358
Mebus, Frederick L., Easton, Pa. "Mebus." (A Remedy for Chapped Lips, &c).....	5,169	Mar. 29	38	1370
Mechling Bros. & Co., Philadelphia, Pa. "Make Your Own Soap".....	5,438	Dec. 13	41	1168
Merck, E., Darmstadt, Germany. "E. Merck, Darmstadt".....	5,384	Oct. 25	41	358
Mihalovitch, Fletcher & Co., Cincinnati, Ohio. "Mihalovitch's Hungarian Blackberry Juice".....	5,333	Aug. 30	40	922
Miller, Mary L., Chicago, Ill. "Mary L. Miller's Wormwood Ointment".....	5,194	Apr. 19	39	248
Milwaukee Malt Extract Company, Milwaukee, Wis. "Milwaukee Malt Extract".....	5,131	Feb. 22	38	786
Minnich, Simon B., Landisville, Pa. "Nut Shaped." (for Plug Tobacco).....	5,191	Apr. 12	39	124
Montanus, Philip E., Springfield, Ohio. "Injection." (for a Remedy for Venereal Diseases).....	5,096	Jan. 25	38	334
Moore & Sons Chemical Co., St. Louis, Mo. "Moore & Sons' Pile Cure".....	5,167	Mar. 22	38	1252
Morey, J. B., Philadelphia, Pa. "Moery's Japonica Extract," (For a Wash for the Hair).....	5,339	Sept. 6	40	1034
Morgan, William E., Springfield, Ohio. "Hair Restorer.".....	5,299	July 19	40	250
Morris, Thomas B., Brattleborough, Vt. "Match Cigar." (for Cigars made with a Match in the end of each one).....	5,150	Mar. 8	38	1020
Morrow, John S. (See Newlove and Morrow.)				
Mourilyan, Heimann & Co., New York, N. Y. "Nipon," (For Tea).....	5,215	May 17	39	712
Mozley, H., Atlanta, Ga. "Lemon and Lime Juice Pills and Pellets".....	5,324	Aug. 23	40	814
Mozley, H., Atlanta, Ga. "Syrup of Lemons".....	5,351	Sept. 27	40	1344
Murray, Eugene W., Las Vegas, N. Mex. Ter. "The New Mexican Rheumatic Cure".....	5,447	Dec. 20	41	1276
Nale, James W., Glassborough, N. J. "Nale's Reliable Shoe Blacking".....	5,340	Sept. 6	40	1034
National Tobacco Workers' Union of America, Chicago, Ill. "National Tobacco Workers' Union of America—Union-Made Tobacco".....	5,137	Mar. 1	38	902
Neumer, Ferdinand, New York, N. Y. "Export." (For a Bottled Lager Beer).....	5,123	Feb. 22	38	786
New York Chemical Works, New York, N. Y. "5 Cent Size Sterling Potash".....	5,181	Apr. 12	39	124
New York Chemical Works, New York, N. Y. "5 Cent Size Sterling Ball Potash".....	5,182	Apr. 12	39	124
New York Paper Bag Machine and Manufacturing Company, New York, N. Y. "The New Self Opening Square Paper Bag".....	5,183	Apr. 12	39	124
Newby, Frank S., Indianapolis, Ind. "Fuchsia Buds." (For Pills).....	5,366	Oct. 11	41	128
Newell & Bro., San Francisco, Cal. "Star of the Kitchen." (For Soap).....	5,414	Nov. 15	41	700
Newlove, William, and J. S. Morrow, Columbus, Ohio. "California Orange Cider".....	5,282	July 5	40	2
Nielsen, Anna H., Racine, Wis. "Mrs. Nielsen's Compound Liniment".....	5,385	Oct. 25	41	358
Nine, Eli, Cortland, W. Va. "A quick and sure cure for Rheumatism".....	5,283	July 5	40	2
Nonantum Worsted Company, Newton, Mass. "Knitting Works." (for Yarns and Worsted and Articles made therefrom).....	5,136	Mar. 1	38	902
Norway Medicine Co., Norway, Me. "Brown's Instant Relief for Pain".....	5,367	Oct. 11	41	128
O'Connor, William P., and R. Burke, Milwaukee, Wis. "American Carlsbad Water".....	5,439	Dec. 13	41	1168
Olds, E. F., Atlanta, Ga. "Olds' Medicated Antiseptic Specifics".....	5,186	Apr. 12	39	124
Olds, E. F., Atlanta, Ga. "Seminal Resolvent".....	5,208	May 10	39	592
Olds, M. J., Indianapolis, Ind. "Coal Oil Soap".....	5,158	Mar. 15	38	1134
Oliver, William A., Baltimore, Md. "William Armstrong Oliver, Purveyor to the Table".....	5,318	Aug. 2	40	450
Olson, Engebar, Sanborn, Iowa. "New Discovery Rupture Cure".....	5,104	Feb. 1	38	422
Ong, Nathaniel M. (See Thomas, Ong, and Reed.)				
Pagan, Orestes, Philadelphia, Pa. "The Improved Furniture Polish".....	5,452	Dec. 27	41	1394
Painter, Emlen, New York, N. Y. "Cherry Phosphate," (For a Beverage).....	5,334	Aug. 30	40	922
Pamphilon, Frederick H., Brooklyn, N. Y. "Sticta Pulm." (For Throat Tablets).....	5,409	Nov. 8	41	582
Parrish, Edward J., Durham, N. C. "Cut and Slash," (For Smoking Tobacco).....	5,394	Nov. 1	41	470
Paul, William C., and C. T. Shape, Milwaukee, Wis. "Genuine Smith Metallic Retouching Points".....	5,310	July 26	40	350
Pearce, Hurt & Co., Louisville, Ky. "Schroeder's Cocktail Bitters".....	5,386	Oct. 25	41	358
Pease, Charles G., New York, N. Y. "Pease's Horehound Candy, for Coughs and Colds".....	5,105	Feb. 1	38	422
Peck, Carlos N., Atlanta, Ga. "Peek's Perfect Purifier," (For a Medicine).....	5,357	Oct. 4	41	2
Pemberton, John S., Atlanta, Ga. "Coca-Cola Syrup and Extract".....	5,272	June 28	39	1430
Philips & Townsend, Philadelphia, Pa. "Our Barbed Nail has no Equal".....	5,395	Nov. 1	41	470
Phoenix Candle Company, Syracuse, N. Y. "Drawing Room Candles".....	5,284	July 5	40	2
Pinckney & Kahnweiler, New York, N. Y. "Olio d'Olive di Lucca".....	5,325	Aug. 23	40	814
Pinkus, Frederick S., New York, N. Y. "The Frankford." (for Cotton Goods).....	5,159	Mar. 15	38	1134
Pomeroy, Henry R., Indianapolis, Ind. "Pomeroy's Psychrometer, An Automatic Home Signal Service Instrument for Forecasting the Weather".....	5,387	Oct. 25	41	358
Pomeroy & Sons, Newark, N. J. "Extra Heavy Mucilage".....	5,396	Nov. 1	41	470
Potter, Henry N., Cape Vincent, N. Y. "Dr N. Potter's Favorite Compound." (For a Medicine).....	5,220	May 24	39	836
Prall, Delbert E., East Saginaw, Mich. "Cherry Phosphate." (For a Beverage).....	5,300	July 19	40	250
Price Baking Powder Company, Chicago, Ill. "Dr. Price's Delicious Extract of Lemon".....	5,397	Nov. 1	41	470
Proben, J. Charles, Stockton, Cal. "Ivory Tooth Powder".....	5,117	Feb. 15	38	664
Procter & Gamble, Cincinnati, Ohio. "Pure Vegetable Glycerine".....	5,160	Mar. 15	38	1134
Prue & Mooers, Alexander, N. Y. "Bronson's Cough, Cold and Consumption Remedy".....	5,209	May 10	39	592
Radway & Company, New York, N. Y. "Radway's Renovating Resolvent," (For a Medicine).....	5,368	Oct. 11	41	128
Randel, Franklin E., New York, N. Y. "Adjustable." (For Sweat Hat Bands).....	5,114	Feb. 15	38	664
Reed, James L. (See Thomas, Ong, and Reed.)				
Reed, Joanna F., New Bedford, Mass. "Holland Soap".....	5,440	Dec. 13	41	1168
Reid, Murdoch & Fischer, Chicago, Ill. "Huile D'Olive Vierge".....	5,242	June 7	39	1088
Reid, Murdoch & Fischer, Chicago, Ill. "Huile D'Olive De Grasse".....	5,243	June 7	39	1088
Reuter, Charles, Brooklyn, N. Y. "Reuter's Salve".....	5,352	Sept. 27	40	1344
Richards, Albert B., and M. V. Cheatham, Sherman, Tex. "Cheatham's Bilious Pills".....	5,244	June 7	39	1088
Richards, Albert B., and M. V. Cheatham, Sherman, Tex. "Hunt's Cure." (Cure for Itch).....	5,245	June 7	39	1088
Riddell, Benjamin F., Fall River, Mass. "Riddell's Toilet Lotion".....	5,223	May 24	39	836
Riddell, Benjamin F., Fall River, Mass. "Webster's Lung Balsam".....	5,224	May 24	39	836
Ring, P. E., and A. N. Austin, Mansfield Valley, Pa. "Comanche." (For a Remedy for Liver, Kidney, Stomach and Blood Diseases).....	5,107	Feb. 8	38	546
Ritchie, John. (See Ayer and Ritchie.)				
Ritter, J. Adam, Baltimore, Md. "Ritter's Great Inhalant" (For a Remedy for Catarrh, &c).....	5,170	Mar. 29	38	1370
Robinson, Hugo, Albany, Ga. "The Boss Sticky Fly Paper".....	5,369	Oct. 11	41	128

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Roemer, G. Adam, Milwaukee, Wis. "Roemer's Asthma Remedy".....	5,448	Dec. 20	41	1276
Rousseau, Alfred E., Rutland, Vt. "Rousseau's Specific," (For a Liniment).....	5,319	Aug. 2	40	450
Russell, James, Winnipeg, Manitoba, Canada. "Russell's Chocolate Icing".....	5,441	Dec. 13	41	1168
Russia Cement Company, Gloucester, Mass. "Le Page's Liquid Glue".....	5,124	Feb. 22	38	786
Russia Cement Company, Gloucester, Mass. "Le Page's Liquid Glue".....	5,125	Feb. 22	38	786
Russia Cement Company, Gloucester, Mass. "Le Page's Liquid Glue".....	5,126	Feb. 22	38	786
Russia Cement Company, Gloucester, Mass. "Le Page's Mucilage".....	5,127	Feb. 22	38	786
Sammis, Edward M., Babylon, N. Y. "Blue Point Oysters".....	5,388	Oct. 25	41	358
Sayre, William H., Roseville, N. J. "Sayre's Salicylic Acid Troches".....	5,389	Oct. 25	41	358
Sayre, William H., Roseville, N. J. "Sayre's Salicylic Acid Troches".....	5,390	Oct. 25	41	358
Schlotterbeck, Augustus G., Portland, Me. "Compound Syrup Manganese".....	5,246	June 7	39	1088
Schlotterbeck, Augustus G., Portland, Me. "Compound Mixture Helonin".....	5,247	June 7	39	1088
Schmidt Brothers, Evansville, Ind. "Schmidt's German Herb Tea".....	5,335	Aug. 30	40	922
Seabury & Johnson, New York, N. Y. "What to do in case of supposed Drowning. Alcoholism. How to apply a Roller Bandage to a Limb and how to close a Fresh Wound." (for an Accident Case).....	5,098	Jan. 25	38	334
Seabury & Johnson, New York, N. Y. "What to Do till the Doctor Comes." (for an Accident Case).....	5,099	Jan. 25	38	334
Seltz, E. V., New Orleans, La. "Seltz's Rheumatic and Gout Remedy".....	5,296	July 12	40	122
Seminole Blood Purifier Company, Atlanta, Ga. "Sure Cure for Blood Diseases".....	5,248	June 7	39	1088
Seymour & Robinson, Wheeling, W. Va. "Kidney Pills".....	5,410	Nov. 8	41	582
Shape, Charles T. (See Paul and Shape.)				
Shryock, John J. and F. R. (See Shryock, Carnachan, and Irvin.)				
Shryock, John J. and F. R., J. G. Carnachan, and E. L. Irvin, Meadville, Pa. "Soyer's Perfect Sauce".....	5,285	July 5	40	2
Shumway, Perry H., Olean, N. Y. "Sizerville Magnetic Mineral Water".....	5,341	Sept. 6	40	1034
Silvermann Bros. & Co., Williamsport, Pa. "Wire Buckle Suspenders".....	5,336	Aug. 30	40	922
Sitterly, Charles W., Guilderland, N. Y. "Oleum Ovi." (For an Ointment).....	5,391	Oct. 25	41	358
Smith & Co., H. D., Cincinnati, Ohio. "Cough Chewing Gum".....	5,399	Nov. 1	41	470
Smith, Denison, Philadelphia, Pa. "De Smith's Asiatic Cramp and Cholera Composite".....	5,337	Aug. 30	40	922
Smith, Denison, Philadelphia, Pa. "De Smith's Liver and Kidney Healer".....	5,398	Nov. 1	41	470
Smith, G. E., Laurel, Del. "Smith's Chill Syrup".....	5,326	Aug. 23	40	814
Smith, James H., Titusville, Pa. "Smith's Balm of Gilead." (For a Catarrh Cure).....	5,232	May 31	39	964
Smith, R., York, Pa. "Smith's All-Healing Salve".....	5,115	Feb. 15	38	664
Smith, Rufus E., Syracuse, N. Y. "Favorite Aromatic Tooth Wash".....	5,138	Mar. 1	38	902
Souders & Co., W. D., Muncie, Ind. "Hartley's Peruvian Bark Bitters".....	5,221	May 24	39	836
Speer, J. S., Sharpburg, Pa. "Speer's Pure Port Wine".....	5,139	Mar. 1	38	902
Stamets, William B., Shamokin, Pa. "Stamets' Lung Balsam".....	5,277	June 28	39	1430
Stauff & Foster, Baltimore, Md. "Green Tetter-Cure".....	5,400	Nov. 1	41	470
Steele, Bryan C., St. Louis, Mo. "Steele's Little Bile Pills".....	5,195	Apr. 19	39	248
Steele, Bryan C., St. Louis, Mo. "Menard's Rheumatic Bullets".....	5,205	May 3	39	472
Stein Bros. & Baumgartl, Chicago, Ill. "Hand Made Sour Mash Whiskey".....	5,255	June 14	39	1206
Stevenson, M. A., Sandusky, Ohio. "Three Great Combination Hair Remedies, viz.: Hair Beautifier No. 1 Hair Restorer No. 2 Hair Dressing No. 3".....	5,128	Feb. 22	38	786
Sulzbacher, Mirum, New York, N. Y. "The Great American Spavin Cure for Horses".....	5,118	Feb. 15	38	664
Sutherland & Co., J. P., Albany, N. Y. "Pastry." (For Flour).....	5,233	May 31	39	964
Sweetwater Mill Company, Sweetwater, Tenn. "Sweetwater Valley Roller Process." (For Flour).....	5,190	Apr. 12	39	124
Tabor, William F., Cleveland, Ohio. "W. F. Tabor's French Cream Shampoo".....	5,327	Aug. 23	40	814
Tappan, Herman, New York, N. Y. "Triple Distilled Cologne".....	5,082	Jan. 11	38	110
Tarrant & Co., New York, N. Y. "Phosphorated Ginger Mead".....	5,171	Mar. 29	38	1370
Tarrant & Company, New York, N. Y. "Tarrant's Exquisite Perfumes. Wild Rose. Special.".....	5,301	July 19	40	250
Taylor, W. Scott, Trenton, N. J. "Taylor's Improved Sarsaparilla Root Beer Extract".....	5,140	Mar. 1	38	902
Tetley, John, Providence, R. I. "Sparkling Hoarhound Beer".....	5,342	Sept. 6	40	1034
Tettenborn, F., Cincinnati, Ohio. "Tettenborn's Household Store" (for Household Goods).....	5,286	July 5	40	2
Thomas & Courter, Newark, N. J. "6 $\frac{7}{8}$ " (For Hats).....	5,187	Apr. 12	39	124
Thomas, Henry O., Omaha, Nebr. "Hop Extract Baking Powder".....	5,088	Jan. 18	38	234
Thomas, Jesse K., N. M. Ong, and J. L. Reed, Steubenville, Ohio. "New Remedy," (For a Medicine).....	5,449	Dec. 20	41	1276
Thomen, Arthur A., Columbus, Ohio. "Iron Phosphate," (For a Beverage).....	5,328	Aug. 23	40	814
Thompson, Augustin, Lowell, Mass. "Extract of Moxie Nerve Food".....	5,256	June 14	39	1206
Thompson, Samuel S., Crailhope, Ky. "Dr Thompson's Michigan Liniment".....	5,174	Mar. 29	38	1370
Throp, Frank W., New Hope, Pa., and S. U. Throp, Elizabeth, N. J. "Throp's Rheumatic Elixir".....	5,210	May 10	39	592
Throp, Samuel U. (See Throp, Frank W., assignor.)				
Tomer, William J., Pittsburg, Pa. "Craft's Cure".....	5,392	Oct. 25	41	358
Toms & Reed, Newark, N. J. "The Improved "Deep Hub" Bar Button." (For Pantaloon Buttons).....	5,168	Mar. 22	38	1252
Tough, Rutherford & Co., Baltimore, Md. "Cardinal Red Oil".....	5,249	June 7	39	1088
Townsend, G. E., Bowling Green, Ky. "Townsend's Corn Salve".....	5,423	Nov. 22	41	820
Ullman, Gebhard L. (See Ullman, Sabbati E. and G. L.)				
Ullman, Sabbati E. and G. L., Albany, N. Y. "Compound Pepsin Powder".....	5,273	June 28	39	1430
Union Cigar Manufacturers Protective Association of Richmond, Va., No. 1, Richmond, Va. "Richmond Made Cigars".....	5,370	Oct. 11	41	128
Van Haren, F. E., Topeka, Kans. "Van's Tooth Powder.".....	5,129	Feb. 22	38	786
Van Rensselaer & Co., New Brunswick, N. J. "Ginger Snaps".....	5,076	Jan. 4	38	2
Wallace, William B., and H. Hall, New York, N. Y. "Beef and Porter".....	5,151	Mar. 8	38	1020
Wanamaker, John, Philadelphia, Pa. "The Ladies' Brand." (For Silk Goods).....	5,338	Aug. 30	40	922
Ward & Co., Montgomery, Chicago, Ill. "Mrs. Hannah Cobb's Home Made Soap".....	5,207	May 10	39	592
Warner, William R., Philadelphia, Pa. "Triple Bromides".....	5,450	Dec. 20	41	1276
Warren, Jabez T., Le Roy, N. Y. "Warren's Toilet Ointment".....	5,152	Mar. 8	38	1020
Weidig, Hermann, Indianapolis, Ind. "H. Weidig's Universal-Herbal Ointment".....	5,196	Apr. 19	39	248
Wiesel, John M., Baltimore, Md. "Wiesel's Obstetric Cones".....	5,116	Feb. 15	38	664
Weller, Joseph, Trexlertown, Pa. "Weller's Little Liver Capsules".....	5,222	May 24	39	836
Wiggs, Joseph J., and J. Coates, Little Rock, Ark. "Phosphate-Nectar." (For a Beverage).....	5,274	June 28	39	1430
Wilde, Friedrich W., Newport, Ky. "Dr. Wilde's Balsam, Great Blood Purifier".....	5,161	Mar. 15	38	1134
Wilde, Friedrich W., Newport, Ky. "Wilde's Herb and Elderberry Wine".....	5,162	Mar. 15	38	1134
Williams & Co., Thos. C., Richmond, Va. "Hygeia," (For Tobacco).....	5,424	Nov. 22	41	820
Witkowski & Dunwody, Macon, Ga. "Our Matchless." (for Shoes).....	5,153	Mar. 8	38	1020
Woodhull, J. Truesdale, Jersey City, N. J. "Truesdale's Medicated Magnetic Battery".....	5,089	Jan. 18	38	234
Woodruff, Isaac O., New York, N. Y. "Freligh's Tonic. A Phosphorized Cerebro-Spinant.".....	5,302	July 19	40	250
Woolverton, A. B. and L. S., Topeka, Kans. "Coca Nerve Tonic Concentrated Extract".....	5,311	July 26	40	350
Woolverton, L. S. (See Woolverton, A. B. and L. S.)				
Worden, H. Seymour. (See Cummings and Worden.)				
Wright & Company, Charles, Detroit, Mich. "Myrrh." (for a Tooth Soap).....	5,141	Mar. 1	38	902
Wright, John A., Keene, N. H. "Silver Cream" (For Cleaning and Polishing Silver).....	5,257	June 14	39	1206
Wunderle, Philip, Philadelphia, Pa. "The Best." (For Confectionery).....	5,371	Oct. 11	41	128

DISCLAIMERS.

Name, residence, and invention.	No.	Filed.	Official Gazette.	
			Vol.	Page.
De Coppet, Francis V., New Orleans, La.; disclaimer filed by the assignee, the Cincinnati Ice Machine Company. Ice machine.....	148,675	June 29, 1887	40	122
Earle, Henry E., Danbury, Conn.; disclaimer filed by the patentee and his assignee, Susan E. Wildman. Hydrants and fire-plugs.....	353,739	Aug. 19, 1887	40	814
Filley, Giles F., St. Louis, Mo.; disclaimer filed by patentee. Doors for stove-ovens.....	246,606	Apr. 7, 1887	38	248
Holliday, John, Brooklyn, N. Y., assignor, by mesne assignment, to Read Holliday & Sons, Huddersfield, England; disclaimer filed by assignees. Manufacture of rosaniline colors.....	250,247	Feb. 19, 1887	38	902
Low, Albert A., New Brighton, N. Y.; disclaimer filed by present assignees, Haviland & Co., New York, N. Y. Plates and dishes.....	226,665	Apr. 27, 1887	39	592
Sellers, George H., Ridley Park, Pa.; disclaimers to first and sixth claims filed by assignee, The Edge Moor Iron Company, New Castle, Del. Art of upsetting and shaping metal bars.....	372,571	Dec. 9, 1887	41	1276
Shannon, James S., Chicago, Ill.; disclaimer filed by present assignee, The Schlicht & Field Company, New York, N. Y. Temporary binders.....	217,907	Feb. 5, 1887	38	664
Watson, Lewis N., Chicago, Ill.; disclaimer to first claim filed by patentee. Ironing-machine....	353,769	Nov. 2, 1887	41	582
Wilcox, Darius, Derby, assignor to Wilcox & Howe, Birmingham, Conn.; disclaimer filed by assignees. Die for forming fifth-wheel blanks.....	221,886	Feb. 6, 1887	38	664

EXTENSION.

Cole, Henrietta H., New York, N. Y. Fluting machine. (Reissue.) No. 4,349. Extended Aug. 9, 1887. Vol. 40, page 814.

ALPHABETICAL LIST OF INVENTIONS.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Specification.	Drawing.	Volume.	Page.
Abdominal supporter	S. A. Drewry	363,812	May 31	2481	644	39	972
Abdominal supporter	C. K. Farrington	365,805	July 5	67	19	40	14
Abdominal supporter and pessary. Combined	D. L. Snediker	364,968	June 14	1103	287	39	1301
Accordion	F. H. and J. G. Bufe	365,501	June 28	1891	492	39	1470
Accordion	J. F. Stratton	364,609	June 7	566	152	39	1194
Accordion	J. F. Stratton	370,217	Sept. 20	1309	349	40	1296
Accordion	J. F. Stratton	370,218	Sept. 20	1310	349	40	1296
Accordion	H. F. A. Wichmann	368,696	Aug. 23	1966	521	40	851
Account-register or coin-counter	L. Benham	357,361	Feb. 8	886	233	38	595
Acid and substitutes thereof. Manufacture of salicylic	T. Kempf	355,875	Jan. 11	819	.....	38	166
Acid. Apparatus for concentrating sulphuric	J. B. F. Herreshoff	369,790	Sept. 13	652	177	40	1167
Acid by the aid of waste steam. Obtaining sulphuric	H. J. P. Sprengel	357,107	Feb. 1	512	135	38	517
Acid. Concentrating sulphuric	J. B. F. Herreshoff	357,528	Feb. 8	1133	296	38	642
Acid-dispenser	F. G. Cutter	366,934	July 19	1614	432	40	322
Acid. Manufacture of carbonic	C. Arnois	368,123	Aug. 9	1130	300	40	674
Acid. Manufacture of lactic	C. N. Waite	365,655	June 28	2133	.....	39	1517
Acid. Obtaining muriatic	G. Rumpf	361,026	Apr. 12	913	231	39	173
Acid of alpha-naphthol. Monosulpho-	A. Liebmann	374,259	Dec. 6	125	.....	41	1071
Acid of diamidostilbene. Production of disulpho-	F. Bender	360,553	Apr. 5	238	.....	39	46
Acid. Production of a new naphthylamine-mono-sulphonic	A. Weinberg and H. Siebert	362,560	May 10	689	.....	39	610
Acid to Glover towers, &c. Apparatus for feeding	F. W. Chappell	375,121	Dec. 20	1392	361	41	1331
Acids. Apparatus for concentrating	H. Pischon and R. Pfennig	374,268	Dec. 6	133	36	41	1072
Acids. Method of and apparatus for testing	T. C. Stearns	362,402	May 3	458	127	39	564
Acoustic apparatus. Electro-	A. A. Knudson	360,308	Mar. 29	2856	727	38	1466
Adding, counting, and registering machines. Governor for	W. Koch	367,346	July 26	2209	593	40	441
Adding, counting, or registering machines. Stop device for	W. Koch	362,219	May 3	223	65	39	516
Adding-machine	S. E. Austin	370,719	Sept. 27	2058	546	40	1442
Adding-machine	D. E. Felt	366,945	July 19	1634	438	40	325
Adding-machine	D. E. Felt	371,496	Oct. 11	1071	280	41	218
Adding-machine	W. F. Gatewood	370,777	Oct. 4	37	10	41	10
Adding-machine	G. Phillips	367,546	Aug. 2	276	78	40	504
Adding-machine	J. Richardson	364,297	June 7	126	36, 37	39	1113
Adding-machine	B. F. Smith	360,118	Mar. 29	2575	654	38	1413
Adding-machine	B. F. Smith and A. E. Shattuck	363,972	May 31	2721	705	39	1016
Adding-machine	E. W. Vest	369,998	Sept. 13	981	259	40	1227
Addressing-machine	W. Barr	362,143	May 3	123	37	39	497
Addressing-machine	T. C. Eberhardt	375,481	Dec. 27	1866	{ 487 } 488	{ 41 } 41	1433
Addressing-machine	I. D. Hurlbut	356,130	Jan. 18	1207	320	38	247
Adjustable chair	C. E. Allen and I. D. Hatch	365,720	June 28	2229	580	39	1533
Adjustable chair	J. F. McFadden	364,273	June 7	97	28	39	1108
Adjustable chair	J. B. Morrison	369,295	Aug. 30	2788	744	40	1020
Adjustable chair	E. Pyncheon	374,628	Dec. 13	659	{ 172 } 173	{ 41 } 41	1184
Adjustable gate	W. H. Dill	366,937	July 19	1621	434	40	323
Adjustable seat	C. C. Gould	356,403	Jan. 18	1581	416	38	317
Adjustable table	G. Zaccane	359,340	Mar. 15	1310	340	38	1159
Adjustable table	S. Zenger	370,227	Sept. 20	1321	352	40	1298
Adjustable wrench	E. S. Boynton	364,749	June 14	765	{ 203 } 204	{ 39 } 39	1240
Adjustable wrench	C. M. Brown	370,447	Sept. 27	1640	438	40	1365
Advertisements and transparencies. Frame for	F. B. Ray	369,737	Sept. 13	581	158	40	1154
Advertiser. Wire-fence	E. K. Barnsdale	363,792	May 31	2449	636	39	966
Advertising-cabinet	T. Dougherty	361,995	Apr. 26	2317	604	39	452
Advertising-card	I. M. Miller	359,878	Mar. 22	2172	547	38	1332
Advertising-cards. Device for displaying	O. C. Hoffmann	360,881	Apr. 12	691	{ 181 } 182	{ 39 } 39	135
Advertising-cards. Device for displaying	J. Stonitsch and W. F. Sweet	356,805	Feb. 1	86	24	38	439
Advertising-chariot	C. W. Vogel and S. F. Watson	369,305	Aug. 30	2806	748	40	1024
Advertising-circular	M. B. Church	372,301	Nov. 1	22	7	41	475
Advertising device	E. E. Alderman	367,946	Aug. 9	890	241	40	628
Advertising device	T. W. Lippincott	356,408	Jan. 18	1590	418	38	319
Advertising device. Automatic	L. F. Wetzell	355,578	Jan. 4	368	99	38	74
Advertising medium	J. W. Callahan	365,907	July 5	211	54	40	41
Advertising medium	T. Hinrichs	364,588	June 7	542	145	39	1190
Advertising show-stand	L. F. Wetzell	356,235	Jan. 18	1346	355	38	272
Advertising-vehicle	J. F. Nichols	373,845	Nov. 29	2358	{ 633 } 634	{ 41 } 41	948
Æolian harp	G. J. Holbrook	358,448	Mar. 1	36	10	38	910
Aerated beverages. Tablet for	S. R. Divine	362,727	May 10	938	256	39	656
Aerated water. Apparatus for making	W. Raydt	358,165	Feb. 22	2069	545	38	828
Aerated waters. Producing	S. R. Divine	362,728	May 10	939	.....	39	656
Aerial navigation	W. Beeson	361,955	Apr. 26	2106	{ 546 } 547	{ 39 } 39	415

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Aerial ship	M. Braun	356,743	Feb. 1	5	2, 3	38	424
Aerial vessel	W. N. Hutchinson	371,759	Oct. 18	1451	{ 375 376 }	41	304
Aerial vessel	J. Neubrand	361,442	Apr. 19	1507	289	39	296
Aging and purifying liquors. Device for	J. W. Lochner and N. Oester	370,549	Sept. 27	1801	479	40	1394
Agricultural boiler	J. and P. Just	367,209	July 26	1991	{ 538 539 }	40	401
Agricultural boiler	J. H. and C. Rose	372,044	Oct. 25	1887	487	41	395
Agricultural implements. Lever-handle for	W. E. Wagner	371,393	Oct. 11	935	241	41	189
Agricultural machines. Seat for	G. Banks	357,059	Feb. 1	445	118	38	504
Agricultural machines. Seat for	C. V. Beebe	361,918	Apr. 26	2195	569	39	432
Agricultural purposes. Implement for	C. La Dow	360,310	Mar. 29	2858	728	38	1467
Air. Apparatus for drying compressed	G. R. Cullingworth	357,703	Feb. 15	1403	369	38	701
Air box. Cold-	C. G. Short and N. S. Kellogg	361,457	Apr. 19	1524	395	39	300
Air-brake	W. W. Hanscom	369,057	Aug. 30	2481	659	40	959
Air-brake. Automatic electric	J. F. Carpenter	359,593	Mar. 22	1736	{ 441 442 }	38	1253
Air-brakes. Automatic regulator for	C. A. Bass	358,142	Feb. 22	2035	535	38	822
Air-compressing apparatus	L. S. Chichester	370,376	Sept. 27	1539	{ 411 412 }	40	1348
Air-compressor	U. Cummings	363,509	May 24	2041	531	39	882
Air-compressors. Valve-gear for	E. M. Strange	373,419	Nov. 15	1728	456	41	806
Air-heater	F. Heller	368,767	Aug. 23	2064	547	40	869
Air-moistener	T. Bradford	365,785	July 5	19	7	40	6
Air-moistener	R. A. Roberts	364,136	May 31	2943	765	39	1059
Air or gas gage. Recording speed and pressure	J. Gordon, Jr., and E. J. B. Lowdon	369,932	Sept. 13	881	{ 233 234 }	40	1209
Air or water purifying apparatus	J. W. James	368,891	Aug. 23	2234	594	40	903
Air-purifier and evaporator	J. W. Collins	370,529	Sept. 27	1768	471	40	1388
Air-ship	P. C. Campbell	362,605	May 10	761	210	39	621
Air-ship	C. H. Morgan	373,469	Nov. 22	1802	{ 479 480 }	41	833
Air-ship	J. M. Wheeler	361,475	Apr. 19	1548	401	39	304
Air-supply regulator	H. M. Smith and W. J. Baldwin	371,797	Oct. 18	1511	390	41	315
Air with hydrocarbon vapor. Apparatus for impreg- nating	G. Daimler	355,594	Jan. 4	388	105	38	78
Alarm:							
See Belt-alarm. Fire and burglar alarm.							
Burglar-alarm. Gas-alarm.							
Clock-alarm. Gas-stoppage alarm.							
Cock-alarm. Hydrometer-alarm.							
Door-alarm. Low-water alarm.							
Druggist-alarm. Railway-crossing alarm.							
Electric alarm. Temperature-alarm.							
Electric danger- Till-alarm.							
alarm. Water-alarm.							
Fire-alarm. Water-level alarm.							
Alarm	W. G. Joerke	373,073	Nov. 15	1196	319	41	709
Alarm attachment for door-knobs	W. P. Allison	357,887	Feb. 15	1670	435	38	750
Alarm-box. Electric police-call	J. J. Coughlin	362,477	May 3	571	159	39	584
Alarm for doors, &c.	N. J. Busby	361,048	Apr. 12	945	239	39	179
Alarm for hoisting machinery	R. Mulholland	355,883	Jan. 11	834	218	38	169
Alarm for the protection of graves	W. H. Farnham and C. B. Askew	356,756	Feb. 1	21	7	38	427
Alarm-indicator	A. J. Wright	362,138	May 3	116	35	39	496
Alarm-lock	W. B. Bradsby and E. W. Hagee	370,677	Sept. 27	1988	{ 528 529 }	40	1430
Alarm-lock	U. V. Jaeggi	370,480	Sept. 27	1695	450	40	1376
Alarm-lock	R. G. Vassar	373,111	Nov. 15	1247	332	41	719
Alarm-signal. Telegraphic	S. E. Mosher	361,020	Apr. 12	904	{ 228 229 }	39	171
Album	M. P. Evans	359,670	Mar. 22	1834	466	38	1272
Album-clasp	W. Lowery	361,304	Apr. 19	1321	339	39	262
Album-stand	F. Seipelt	371,100	Oct. 4	526	133	41	104
Albums. Adjustable clasp for	H. Lehmann	361,766	Apr. 26	1966	513	39	390
Albumen from blood. Obtaining	T. Nordenfelt	357,331	Feb. 8	849	.....	38	587
Albuminimeter	A. C. Christensen	364,898	June 14	1005	263	39	1283
Alkali. Process of and apparatus for recovering	P. Hogan	366,956	July 19	1648	442	40	328
Alkaline phosphates. Producing soluble	T. Twynam	361,656	Apr. 19	1812	.....	39	355
Alloy	C. C. Carroll	373,221	Nov. 15	1433	.....	41	752
Alloy	C. A. Paillard	367,159	July 26	1931	.....	40	389
Alloy	C. A. Paillard	367,160	July 26	1931	.....	40	389
Alloy	C. A. Paillard	367,161	July 26	1932	.....	40	389
Alloy. Metallic	C. A. Paillard	367,158	July 26	1930	.....	40	389
Almonds from their hulls. Device for separating	J. L. Heald	372,146	Oct. 25	2043	523	41	422
Alphabet-case	A. M. Safford	362,665	May 10	854	233	39	639
Aluminium and aluminium bronze. Production of	R. Grätzel	362,441	May 3	515	.....	39	574
Aluminium chloride. Making	W. Frishmuth	359,601	Mar. 22	1747	.....	38	1256
Aluminium. Extracting	O. M. Thowless	370,220	Sept. 20	1313	.....	40	1296
Amalgamating apparatus. Gold-	B. C. Molloy	363,411	May 24	1885	496	39	851
Amalgamating apparatus. Gold-	B. C. Molloy	363,412	May 24	1888	{ 496 497 }	39	851
Amalgamating-machine	D. Calder and J. D. Maclay	371,031	Oct. 4	431	108	41	86
Amalgamating-pan	A. Soderling	375,212	Dec. 20	1512	397	41	1357
Amalgamator	H. Cook	362,363	May 3	403	112	39	553
Amalgamator	F. A. Huntington	359,155	Mar. 8	1055	275	38	1106
Amalgamator	A. N. Rollins	366,130	July 5	520	140	40	98
Amalgamator	J. A. Sperry	371,523	Oct. 11	1110	289	41	226
Amalgamator	C. M. Stolle	369,135	Aug. 30	2582	686	40	979
Amalgamator	B. Tyson	372,722	Nov. 8	648	178	41	603
Amalgamator and separator	C. E. Tripler	373,542	Nov. 22	1930	512	41	856
Amalgamator. Centrifugal	W. White	355,958	Jan. 11	955	250	38	193
Amalgamator. Centrifugal	W. White	368,363	Aug. 16	1484	395	40	750
Amalgamator. Electric	T. H. Trauernicht	358,002	Feb. 15	1825	480	38	779
Amalgams by electrolysis. Manufacturing	A. S. Hickley	356,640	Jan. 25	1927	505	38	390

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Ambulance	H. H. Judson	370,063	Sept. 20	1087	287	40	1254
Ambulance-spring	J. A. Hauser, Jr., and J. A. Ritzler	359,388	Mar. 15	1393	356	38	1174
Ammonia. Apparatus for storing liquid	D. D. Johnson	373,741	Nov. 22	2207	590	41	912
Ammonia from coal. Process of and apparatus for obtaining	W. Young and G. T. Beilby	356,610	Jan. 25	1876	493 494 495	38	381
Ammonia from manure, &c. Obtaining	W. F. Nast	374,618	Dec. 13	648	.....	41	1182
Ammonia in ammonia-motors, &c. Apparatus for recovering	P. J. McMahon	367,993	Aug. 9	959	258	40	642
Ammonia. Preparing anhydrous	P. J. McMahon	367,992	Aug. 9	956	258	40	641
Ammonia. Process of and apparatus for making	T. B. Fogarty	371,187	Oct. 11	646	165	41	135
Ammonium sulphate. Apparatus for the manufacture of	C. Meyer, Jr.	367,426	Aug. 2	96	25	40	469
Ammonium sulphate. Process of and apparatus for making	T. B. Fogarty	371,186	Oct. 11	643	165	41	135
Ammunition. Apparatus for handling	S. Seabury	366,348	July 12	819	220	40	162
Ammunition equipment. Soldier's	S. O'Connor	373,681	Nov. 22	2124	568 569	41	896
Anchor	C. E. Best	363,579	May 24	2142	555	39	902
Anchor	J. Tiebout	358,306	Feb. 22	2260	596	38	865
Anchor. Folding	T. G. Edmondson	374,526	Dec. 6	509	133	41	1144
Anchor. Land-	T. Nevison	362,774	May 10	1019	277	39	670
Anchor-tripping device	W. T. Oliver	361,539	Apr. 19	1629	422	39	320
Anchors. Safety attachment for	N. Smith	372,938	Nov. 8	984	266	41	661
Andiron	F. R. Seidensticker	355,563	Jan. 4	351	94	38	71
Andiron	O. Steele	366,133	July 5	522	141	40	99
Anemoscope. Recording-	W. H. Childs	364,802	June 14	864	226 227	39	1256
Angle-iron. Manufacture of	J. Davis	369,277	Aug. 30	2760	736 737	40	1015
Animal-catcher	J. Betz	365,568	June 28	2008	523	39	1494
Animal-catcher	R. D. Chappell	369,230	Aug. 30	2697	716	40	1002
Animal-catching device	W. Miller	374,488	Dec. 6	456	118	41	1133
Animal-exterminator	W. H. Leininger	360,232	Mar. 29	2748	696	38	1445
Animal-exterminator	J. B. Payne	356,498	Jan. 25	1721	450	38	352
Animal-power	J. F. McCreary	373,467	Nov. 22	1699	478 479	41	833
Animal-power	E. B. Studebaker	370,569	Sept. 27	1825	486	40	1399
Animal-releasing device	L. Braham and H. L. K. Jackson	373,434	Nov. 22	1751	464	41	823
Animal-releasing device	D. Edleman	355,306	Jan. 4	19	6	38	6
Animal-releasing device	E. E. Hipp	366,100	July 5	473	128	40	89
Animal-releasing device	C. A. Richards and D. T. French	374,321	Dec. 6	219	58	41	1087
Animal-releasing device	C. E. Smith and L. C. Kendall	361,726	Apr. 26	1914	456	39	380
Animal-shears	J. W. Banner	374,233	Dec. 6	89	22	41	1064
Animal-stock	D. H. Kathan	369,061	Aug. 30	2485	660	40	960
Animal-stock	S. S. Leech	367,305	July 26	2148	578	40	429
Animal-trap	T. Alexander	371,728	Oct. 18	1413	365	41	296
Animal-trap	A. Becker	372,292	Nov. 1	11	3	41	472
Animal-trap	N. C. Boynton	355,857	Jan. 11	789	207	38	160
Animal-trap	T. Doolan	373,799	Nov. 22	2291	613	41	926
Animal-trap	P. R. Erling	358,924	Mar. 8	758	189	38	1049
Animal-trap	J. B. Golding and O. D. Wright	356,635	Jan. 25	1923	504	38	389
Animal-trap	J. C. Gould	362,952	May 17	1261	334	39	721
Animal-trap	J. F. Hay	370,700	Sept. 27	2026	539	40	1437
Animal-trap	J. W. Jones	371,763	Oct. 18	1457	377	41	305
Animal-trap	M. McGary	371,086	Oct. 4	502	126	41	99
Animal-trap	J. S. McKay	371,693	Oct. 18	1355	350	41	283
Animal-trap	J. Nuding	366,866	July 19	1533	411	40	306
Animal-trap	E. Oliver	363,536	May 24	2082	539	39	889
Animal-trap	A. Sewel	363,554	May 24	2106	546	39	894
Animal-trap	H. J. Seymour	362,792	May 10	1039	282	39	673
Animal-trap	H. G. Stone	370,101	Sept. 20	1144	303	40	1264
Animal-trap	C. R. Swan	365,763	June 28	2296	597	39	1547
Animal-trap	W. P. White	359,237	Mar. 8	1167	303 304	38	1125
Animal-trap	W. P. White	362,343	May 3	378	104 105	39	548
Animal-trap	W. P. White	366,802	July 19	1446	387	40	289
Animal-trap	E. Wood	374,135	Nov. 29	2773	746	41	1028
Animal-trap	T. B. Zeller	357,650	Feb. 15	1329	349	38	687
Animal-trap guard	W. R. McCracken	360,235	Mar. 29	2755	699	38	1446
Animal-traps. Device for securing	O. D. Wright	364,390	June 7	249	70	39	1136
Animals. Device for loading or unloading	S. Bradley	370,760	Oct. 4	9	3	41	5
Ankle-support	F. Hackey	363,516	May 24	2049	533	39	884
Annealing-furnace	B. Howell	363,292	May 17	1722	451	39	812
Annealing wire	W. H. Sawyer	360,732	Apr. 5	478	122	39	89
Annunciator	A. D. Blodgett	359,051	Mar. 8	927	236	38	1080
Annunciator	E. D. Clapp	363,315	May 17	1752	459 460	39	817
Annunciator and shunt-circuit therefor	J. A. Barrett	360,266	Mar. 29	2798	712	38	1455
Annunciator call system. Electrical	F. J. Patten	369,810	Sept. 13	678	184	40	1172
Annunciator-drop. Electro-magnetic	J. J. O'Connell	365,935	July 5	256	67	40	50
Annunciator. Electric	J. C. Kunkle	360,447	Apr. 5	74	19	39	15
Annunciator. Electric	J. C. Kunkle	360,448	Apr. 5	75	20	39	16
Annunciator. Electric	P. Seiler	355,791	Jan. 11	694	181	38	144
Annunciator. Electrical	W. C. Poole and J. Schnepf	367,925	Aug. 9	857	233	40	623
Annunciator. Fire-damp	A. Berghausen	370,851	Oct. 4	148	40	41	30
Annunciator. Pneumatic	J. A. Maloney	358,363	Feb. 22	2334	619	38	879
Annunciator system	P. Seiler	364,444	June 7	337	93	39	1152
Annunciator. Telephone	J. A. Barrett	358,250	Feb. 22	2181	575	38	850
Anodyne	S. W. Kincaid	371,590	Oct. 18	1205	.....	41	253
Ant-trap	S. A. Haines	360,293	Mar. 29	2841	723	38	1463
Ant-trap	F. A. Mays	356,256	Jan. 18	1368	361	38	277
Ant-trap	W. R. McCallum	358,212	Feb. 22	2135	563	38	842

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Ant-trap	D. Wise and R. Rountree	355,366	Jan. 4	100	27	38	21
Anti-friction composition	I. P. Wendell	368,635	Aug. 23	1869		40	832
Anti-friction composition	I. P. Wendell	368,636	Aug. 23	1870		40	833
Anti-friction roller	E. C. Dean	365,506	June 28	1908	496	39	1474
Anti-incrustation compound	W. J. Williams	370,583	Sept. 27	1855		40	1404
Anti-induction device	J. Curran	371,555	Oct. 18	1157	301	41	244
Antiseptic solution	C. T. Kingzett	374,125	Nov. 29	2758		41	1025
Anvil	C. Fisher	365,678	June 28	2165	564	39	1522
Anvil	E. Statham and H. Price	358,756	Mar. 1	492	120	38	995
Anvil for steam-hammers	A. E. Barnard	357,546	Feb. 8	1163	305	38	647
Anvils. Horseshoe-vise attachment for	J. Dwyer	362,614	May 10	773	213	39	624
Anvils. Tire appliance for	W. Webster	373,869	Nov. 29	2392	643	41	954
Apple-corer	L. R. Simpson	358,792	Mar. 1	540	133	38	1004
Apron. Hat-maker's	J. B. Alley	363,790	May 31	2447	635	39	965
Aprons. Supporting-band for	A. M. Morrison	361,537	Apr. 19	1626	421	39	320
Aqueducts. Aeration in	J. W. Hyatt	360,593	Apr. 5	293	71, 72	39	56
Arc light	C. B. Noble	374,129	Nov. 29	2762	742	41	1026
Arch-bar jig	O. M. Carey	362,201	May 3	194	57	39	511
Arch or beam	P. M. Bruner	356,703	Jan. 25	2005	526	38	405
Arches. Device for constructing	F. Gorman	375,620	Dec. 27	2066	537	41	1469
Arctics. Washer-plate and rivet for	J. L. Thomson and J. J. Unbehend	368,560	Aug. 16	1771	471	40	805
Area, floor, roof, and sidewalk construction	P. H. Jackson	370,625	Sept. 27	1916	{ 508 } { 509 }	{ 40 } { 40 }	{ 1416 } { 1416 }
Argand burner	S. G. Dodd	367,606	Aug. 2	364	103	40	521
Argand burner	E. Melchior	367,421	Aug. 2	89	24	40	468
Arm-rest	E. A. Bennett	364,083	May 31	2861	742	39	1044
Arm-rest	Y. B. Meredith	367,309	July 26	2153	579	40	430
Arm-rest for books	J. E. Schonacker	358,698	Mar. 1	414	100	38	981
Arm-rest for key-board operators	J. S. Jurey	360,529	Apr. 5	201	49	39	39
Arm-rest. Penman's	T. F. Crane	364,705	June 14	703	187	39	1229
Arm-rest. Penman's	T. Graham	364,917	June 14	1028	269	39	1287
Armature	H. B. Slater	374,711	Dec. 13	775	203	41	1207
Armature and process of and apparatus for forming the same	C. G. Curtis, S. S. Wheeler, and F. B. Crocker.	359,205	Mar. 8	1118	{ 291 } { 292 }	{ 38 } { 38 }	{ 1117 } { 1117 }
Armature. Dynamo	E. N. Bliss	374,728	Dec. 13	797	209	41	1211
Armor-plate. Mold for	B. Atha	375,666	Dec. 27	2133	{ 554 } { 555 }	{ 41 } { 41 }	{ 1482 } { 1482 }
Armor-plates. Manufacture of compound	H. C. S. Dyer	371,129	Oct. 4	565	{ 143 } { 144 }	{ 41 } { 41 }	{ 112 } { 112 }
Armor-plates. Manufacture of compound	A. Wilson	362,806	May 10	1053		39	676
Armpit-shields. Making	S. Rauh	371,705	Oct. 18	1382	357	41	289
Artist's stretcher or frame	G. H. Newell	366,865	July 19	1532	411	40	306
Asbestine leaden texture	I. Steinhart	363,018	May 17	1356	358	39	739
Asbestos. Manufacture of hardened	C. Jackson	359,156	Mar. 8	1056		38	1106
Ash and garbage receptacle	W. Baynes and A. R. Clark	360,646	Apr. 5	360	91	39	69
Ash-can	H. Mortenson	366,342	July 12	812	218	40	160
Ash or garbage can	C. M. Brion	362,604	May 10	760	209	39	621
Ash-pan	C. W. Eckerson	375,416	Dec. 27	1779	465	41	1416
Ash-pan carrier	F. W. Coleman	361,863	Apr. 26	2121	549	39	418
Asparagus-buncher	E. Watts	374,383	Dec. 6	302	80	41	1104
Asparagus-buncher	W. Würdemann	370,842	Oct. 4	137	36, 37	41	27
Asparagus-bunching machine	E. Beekman	360,946	Apr. 12	790	205	39	152
Asphalt concrete for paving purposes. Apparatus for the manufacture of	H. Franke	363,132	May 17	1511	{ 400 } { 401 }	{ 39 } { 39 }	{ 770 } { 770 }
Atmospheric brake	A. B. Murray	369,805	Sept. 13	672	182	40	1171
Atmospheric burner	E. F. Gennert	358,345	Feb. 22	2309	611	38	875
Atomizer	G. Kneuper	363,247	May 17	1661	436	39	800
Atomizer	A. P. Lighthill	365,265	June 21	1543	403	39	1391
Atomizer	F. J. Mitchell	371,615	Oct. 18	1241	323	41	260
Atomizer	A. J. and G. H. Palmer	366,022	July 5	380	102	40	71
Atomizer	M. F. Sallade	359,288	Mar. 15	1241	322	38	1146
Atomizer and insect-destroyer	T. W. Houchin, C. B. Riker, and W. P. Houchin.	361,010	Apr. 12	891	225	39	169
Atomizer and syringe. Combined	S. W. Beall	369,767	Sept. 13	621	167	40	1160
Attrition-mill	T. L. Sturtevant and M. G. Davis	372,436	Nov. 1	224	63	41	512
Audible signal	J. Speirs	372,240	Oct. 25	2181	560	41	450
Auger	G. Merdian	369,020	Aug. 30	2419	642	40	947
Auger	H. C. Tevebaugh	368,626	Aug. 23	1859	497	40	831
Auger-bit	C. H. Irwin	361,522	Apr. 19	1607	416	39	316
Auger-bit	C. Whitehouse	364,153	May 31	2968	771	39	1064
Auger-bits. Die for making	W. C. Johnson	359,393	Mar. 15	1400	358	38	1175
Auger. Earth	S. Albright	357,544	Feb. 8	1161	304	38	647
Auger. Earth	J. H. Stowe	368,172	Aug. 9	1202	321	40	687
Auger. Earth	J. Wells	362,562	May 10	691	193	39	610
Auger. Hollow	W. Bradford	374,773	Dec. 13	862	226	41	1225
Auger. Post-hole	C. Linder	374,260	Dec. 6	125	32	41	1071
Auger-power and tile-injector. Fountain	D. L. Monroe and S. F. Stoke	369,545	Sept. 6	317	87	40	1094
Auriferous and argentiferous material, &c. Treating certain descriptions of	E. B. Parnell	360,904	Apr. 12	724		39	141
Auriphone	J. A. Maloney	362,099	May 3	64	19	39	485
Auriphone	J. A. Maloney	362,100	May 3	66	20	39	486
Autographic register	W. Assheton	374,231	Dec. 6	87	22	41	1063
Automatic brake	W. B. Clark	360,419	Apr. 5	24	8	39	7
Automatic brake	H. H. Hobert	359,675	Mar. 22	1846	{ 468 } { 469 }	{ 38 } { 38 }	{ 1274 } { 1274 }
Automatic brake	W. M. McCollum	362,101	May 3	67	20	39	486
Automatic brake	C. F. Moore	363,251	May 17	1670	{ 437 } { 438 }	{ 39 } { 39 }	{ 801 } { 801 }
Automatic brake	G. H. Poor	356,500	Jan. 25	1725	{ 450 } { 451 }	{ 38 } { 38 }	{ 352 } { 352 }
Automatic brake	B. C. Rowell	356,794	Feb. 1	75	21	38	437
Automatic brake	W. H. Thornton	374,379	Dec. 6	298	78	41	1103
Automatic brake for vehicles	J. A. Dickson	360,954	Apr. 12	802	206	39	154
Automatic clasp to hang up trousers, &c	W. Peterson	355,711	Jan. 11	573	150	38	122

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Automatic gate	D. B. Beaty	374,138	Nov. 29	2777	747	41	1029
Automatic gate	J. W. Condry	368,815	Aug. 23	2129	564	40	882
Automatic gate	N. H. Long	375,171	Dec. 20	1459	381	41	1345
Automatic gate	J. C. Rock	359,404	Mar. 15	1412	362	38	1178
Automatic gate	H. J. Schrock	365,638	June 28	2103	548	39	1511
Automatic gate	S. M. Williamson, Jr	374,226	Dec. 6	77	20	41	1062
Automatic indicator	W. Goodhue	369,639	Sept. 6	455	127	40	1121
Automatic lubricator	H. Billeter, Jr	375,597	Dec. 27	2030	527	41	1464
Automatic lubricator	T. W. Hugo	360,157	Mar. 29	2640	667	38	1424
Automatic lubricator	J. Patrick	360,243	Mar. 29	2764	702	38	1448
Automatic sprinkler	A. Ross and C. A. McAllister	368,425	Aug. 16	1571	420	40	768
Automatic switch	J. C. Loury, Jr	363,075	May 17	1430	379	39	755
Automatic switch	M. Millhauser	366,786	July 19	1428	382	40	286
Automatic washer	L. H. F. Peter	358,219	Feb. 22	2141	565	38	843
Awl Pegging	W. H. Shattuck	356,666	Jan. 25	1958	514	38	397
Awning	J. Greenberg	356,833	Feb. 1	121	33	38	445
Awning	F. Hohorst	369,601	Sept. 6	397	110	40	1111
Awning	W. R. Mason	363,155	May 17	1541	407	39	776
Awning	H. W. Schweckendiek	363,548	May 24	2098	544	39	892
Awning	H. W. Schweckendiek	363,549	May 24	2099	544	39	893
Awning and blind. Combined	W. H. Jolliffe. (Reissue)	10,798	Jan. 18	1631	427	38	326
Awning. Folding vehicle	A. D. Beedle	372,448	Nov. 1	243	68	41	516
Awning for windows or doors	A. Thalheimer and W. C. Kantner	359,293	Mar. 15	1245	323	38	1147
Awning for windows. Roller	F. P. Perkins	364,770	June 14	811	213	39	1247
Awning or roofing	A. J. Bonner, Jr	366,071	July 5	441	119	40	83
Awning. Portable	S. M. McReynolds	372,551	Nov. 1	395	106	41	546
Awning. Portable	B. D. Pennington	364,853	June 14	937	248	39	1270
Awning. Store	J. W. Persohn	369,206	Aug. 30	2668	709	40	997
Awning. Window	T. L. Barlow	355,370	Jan. 4	104	28	38	22
Awning. Window	J. W. Loane, Jr	359,931	Mar. 22	2250	566	38	1347
Awnings. Device for operating	T. Charron	365,239	June 21	1496	393	39	1384
Awnings. Device for operating	T. Charron	368,377	Aug. 16	1500	400	40	754
Awnings. Device for operating	T. Sharrow	361,091	Apr. 12	1005	254	39	192
Ax	J. Ballard	370,596	Sept. 27	1870	496	40	1407
Ax	W. J. and J. A. Dunning	356,060	Jan. 11	1088	286	38	219
Ax	C. Maloney	374,483	Dec. 6	448	116	41	1131
Ax	E. Wickert	375,588	Dec. 27	2019	525	41	1462
Ax-blanks. Die for forming	A. Siegel	375,573	Dec. 27	1994	519	41	1458
Ax-handles. Machine for shaping the shanks of	C. E. Sargent	369,262	Aug. 30	2741	730	40	1011
Axes, &c. Die for forming	J. W. Bowers	366,131	July 26	1890	512	40	381
Axle	R. Gracey	365,178	June 21	1418	373	39	1368
Axle and bearing. Vehicle	E. V. Straight	371,991	Oct. 25	1796	466	41	380
Axle and box. Vehicle	A. Braun	364,333	June 7	170	47	39	1121
Axle and manufacturing the same. Tubular	A. Paterson	367,438	Aug. 2	107	30	40	471
Axle and wheel	J. Pettinger	359,403	Mar. 15	1411	362	38	1178
Axle-arm. Subsidiary	G. Hoepfner and H. Wuest	357,828	Feb. 15	1590	413	38	735
Axle bearing. Car	A. J. Hawkins and J. W. Wilkins	366,315	July 12	775	209	40	154
Axle bearing. Car	T. H. Stone	358,499	Mar. 1	115	27	38	925
Axle-box	R. M. and C. F. Barrett	374,234	Dec. 6	90	22	41	1064
Axle-box	M. Hamlin	358,659	Mar. 1	355	85	38	969
Axle-box	L. Larsen	371,848	Oct. 18	1589	410	41	331
Axle-box	C. H. Shattuck	373,912	Nov. 29	2454	659	41	966
Axle-box	F. J. Wiles	367,171	July 26	1941	524	40	390
Axle box and journal. Car	C. Gomer	360,802	Apr. 5	570	149	39	107
Axle box. Car	S. B. Archer	371,243	Oct. 11	721	185	41	150
Axle box. Car	J. R. Baker	370,034	Sept. 20	1049	278	40	1248
Axle box. Car	G. M. Brill	370,722	Sept. 27	2064	547	40	1444
Axle box. Car	C. E. Candee	366,760	July 19	1394	373	40	280
Axle box. Car	J. W. Cloud	370,449	Sept. 27	1646	439	40	1367
Axle box. Car	C. Gomer	372,905	Nov. 8	939	254	41	653
Axle box. Car	E. C. Hammond	371,500	Oct. 11	1081	282	41	220
Axle box. Car	C. Mendenhall	358,872	Mar. 8	681	169	38	1034
Axle box. Car	F. Peteler	369,733	Sept. 13	577	157	40	1153
Axle box. Car	M. Randolph	356,333	Jan. 18	1483	391	38	298
Axle box. Car	H. Rogers	370,088	Sept. 20	1118	297	40	1260
Axle box. Car	W. S. Sharpneck	373,490	Nov. 22	1838	490	41	840
Axle box. Car	M. L. Stearns	369,888	Sept. 13	809	215	40	1197
Axle box. Car	J. J. Stever	375,217	Dec. 20	1518	399	41	1358
Axle box. Car	S. R. Stinard	375,221	Dec. 20	1522	400	41	1359
Axle box. Car	J. Timms	358,583	Mar. 1	254	59	38	950
Axle box. Car	J. Timms	366,529	July 12	1055	287		210
Axle box. Car	H. M. Williams	371,156	Oct. 4	601	154	41	119
Axle box. Car	W. P. Wyllly	363,782	May 24	2433	631	39	957
Axle box. Railway	J. W. Marshall and C. S. Bates	357,721	Feb. 15	1430	376	38	706
Axle boxes. Apparatus for cooling car	J. E. Tourné	360,978	Apr. 12	838	215	39	160
Axle boxes. Dust-guard for car	W. S. G. Baker	361,255	Apr. 19	1254	320	39	249
Axle boxes. Dust-guard for car	A. L. Cushman	357,656	Feb. 15	1340	353	38	689
Axle boxes. Dust-guard for car	W. Dawson and E. J. Frost	368,281	Aug. 16	1384	365	40	730
Axle boxes. Dust-guard for car	F. Taylor	358,506	Mar. 1	122	29, 30	38	926
Axle boxes. Dust-guard for car	F. Taylor	361,732	Apr. 26	1921	499	39	382
Axle-boxes from solid stock. Manufacture of	W. C. Dalzell	359,136	Mar. 8	1032	268	38	1101
Axle-boxes from wheel-hubs. Implement for extracting	H. R. Geyer	366,163	July 5	558	150	40	105
Axle-boxes. Mold for	C. E. Candee	366,455	July 12	945	258	40	188
Axle-brake	R. Lüders	374,607	Dec. 13	633	165	41	1178
Axle. Car	L. D. Allen	363,789	May 31	2446	635	39	965
Axle. Car	C. S. Bates	361,391	Apr. 19	1439	372	39	283
Axle. Car	C. E. Candee	366,618	July 12	1193	319	40	235
Axle. Car	S. L. Denney	366,357	July 12	765	206	40	152

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Axle. Car-.....	M. J. Hatcher.....	366,953	July 19	1645	441	40	328
Axle. Car-.....	I. W. Lewis.....	357,612	Feb. 15	1267	333	38	676
Axle. Car-.....	W. J. Murray.....	355,463	Jan. 4	219	58, 59	38	44
Axle. Car-.....	E. Peckham.....	368,547	Aug. 16	1752	466	40	801
Axle. Car-.....	J. Pettinger.....	366,872	July 19	1542	413	40	307
Axle. Carriage-.....	J. Sadler.....	362,184	May 3	174	52	39	507
Axle-clip.....	A. E. Parker.....	360,724	Apr. 5	466	119	39	87
Axle-clip for vehicles.....	E. Partridge.....	366,425	July 12	907	245	40	180
Axle. Cultivator-.....	L. Braden.....	358,917	Mar. 8	750	186	38	1047
Axle for railway-cars. Divided.....	R. T. White.....	359,827	Mar. 22	2078	526	38	1316
Axle lubricator.....	H. Augustine.....	365,223	June 21	1473	388	39	1380
Axle-lubricator.....	W. C. Banfill.....	357,565	Feb. 15	1204	317	38	665
Axle-lubricator.....	J. C. Nichol.....	370,811	Oct. 4	81	22	41	18
Axle-lubricator.....	T. L. Randall.....	362,313	May 3	339	94	39	540
Axle-lubricator.....	J. P. Ruth.....	366,452	July 5	521	140	40	98
Axle-lubricator.....	M. H. Wallace.....	363,924	May 31	2640	685	39	1000
Axle-lubricator.....	F. W. Wurster.....	356,519	Jan. 25	1749	456	38	356
Axle-lubricator.....	L. F. Yans.....	370,030	Sept. 13	1033	272	40	1236
Axle-lubricator.....	J. L. Yost.....	362,865	May 10	1129	304	39	690
Axle lubricator. Car-.....	H. H. Buffum.....	356,272	Jan. 18	1390	368	38	282
Axle lubricator. Car-.....	R. Faas.....	371,258	Oct. 11	745	191	41	154
Axle lubricator. Car-.....	R. Faas.....	375,700	Dec. 27	2183	568	41	1491
Axle lubricator. Car-.....	C. D. Flynt.....	368,937	Aug. 30	2311	613	40	926
Axle lubricator. Car-.....	C. H. Kock, A. B. Macklin, M. McDermott, and W. D. O'Brien.....	357,835	Feb. 15	1600	415	38	737
Axle lubricator. Car-.....	B. W. Lyon and R. Munro.....	365,754	June 28	2287	594	39	1544
Axle lubricator. Car-.....	E. Pynchon.....	368,969	Aug. 30	2353	625	40	934
Axle lubricator. Car-.....	E. Pynchon, A. B. Macklin, E. F. Mulloy, M. McDermott, and W. D. O'Brien.....	357,999	Feb. 15	1822	479	38	779
Axle-nut.....	C. E. Bertels.....	371,663	Oct. 18	1306	339	41	274
Axle-nut.....	C. C. Bradley.....	372,957	Nov. 8	1013	272	41	666
Axle-nut.....	G. B. Lumpkin.....	372,227	Oct. 25	2161	554	41	445
Axle-nut. Adjustable.....	T. H. Donlon.....	356,710	Jan. 25	2013	528	38	407
Axle-nut attachment.....	G. W. Amos.....	362,922	May 17	1218	325	39	713
Axle-setter.....	L. G. Harding.....	363,135	May 17	1515	401	39	771
Axle-skein.....	E. N. Hatcher.....	374,473	Dec. 6	432	113	41	1128
Axle-skein.....	H. W. Nott.....	370,080	Sept. 20	1109	294	40	1258
Axle-skein.....	W. C. Pursell.....	367,764	Aug. 2	620	167	40	568
Axle-skein.....	F. M. Watson.....	369,142	Aug. 30	2588	688	40	981
Axle-skeins. Making.....	R. Gracey.....	371,312	Oct. 11	819	209	41	168
Axle-skeins. Manufacture of.....	R. Gracey.....	371,311	Oct. 11	816	{ 208 } 209	41	168
Axle. Vehicle.....	C. C. Bradley.....	368,992	Aug. 30	2385	634	40	941
Axle. Vehicle.....	J. M. Brosius.....	362,486	May 10	589	166	39	592
Axle. Vehicle.....	J. M. Brosius.....	367,076	July 12	942	257	40	187
Axle. Vehicle.....	E. Firth.....	365,376	June 28	1719	445	39	1437
Axle. Vehicle.....	J. L. Gilmore.....	375,548	Dec. 27	1962	510	41	1452
Axle. Vehicle.....	T. G. Mandt.....	362,756	May 10	994	269	39	664
Axle. Vehicle.....	W. F. McNutt.....	365,144	June 21	1376	364	39	1360
Axle. Vehicle.....	S. Toomey.....	367,131	July 26	1809	488	40	366
Axle. Wagon.....	W. Findeisen.....	355,603	Jan. 4	398	108	38	79
Axle. Wagon.....	O. C. Hall.....	374,301	Dec. 6	186	49	41	1081
Axle. Wagon.....	C. M. Regan.....	362,659	May 10	845	231	39	637
Axle. Wagon.....	J. L. Thompson.....	372,581	Nov. 1	440	118	41	553
Axles. Attachment for broken.....	T. Patton.....	374,200	Dec. 6	49	12	41	1056
Axles. Device for cutting vehicle.....	O. Whitmore.....	368,178	Aug. 9	1209	323	40	689
Axles. Forming carriage.....	C. L. Sheldon.....	375,387	Dec. 27	1741	457	41	1409
Axles. Machine for forming wagon.....	A. Paterson.....	374,694	Dec. 13	747	197	41	1202
Axles. Making car.....	S. T. Wellman.....	369,488	Sept. 6	237	67	40	1079
Axles. Making carriage.....	C. L. Sheldon.....	375,388	Dec. 27	1742	457	41	1409
Axles. Manufacture of hollow.....	W. Gillespie.....	367,289	July 26	2127	572	40	425
Axles. Method of and die for forming the centers and end collars of car.....	S. T. Wellman.....	369,487	Sept. 3	236	67	40	1078
Axles. Process of and apparatus for toughening steel.....	J. Coffin.....	367,961	Aug. 9	915	247	40	633
Axles. Repairing wagon.....	J. H. and A. T. Currie.....	356,031	Jan. 11	1047	275	38	212
Baby charmer, protector, and dental cutter.....	J. M. B. Price.....	355,663	Jan. 4	500	132	38	97
Baby-jumper.....	W. Ransweiler.....	375,096	Dec. 20	1352	353	41	1324
Baby-jumper with crib and vehicle attachment.....	C. H. Jones.....	364,592	June 7	549	{ 147 } 148	39	1191
Baby-walker.....	W. Lane and A. Doney.....	363,899	May 31	2595	675	39	992
Baby-walker.....	W. Lane and A. Doney.....	368,477	Aug. 16	1653	441	40	783
Back-band hook.....	A. N. Chandler.....	369,229	Aug. 30	2696	716	40	1002
Back-band hook.....	A. Dennis.....	362,498	May 10	607	172	39	595
Back-band hook and line-holder.....	L. Spivey.....	373,538	Nov. 22	1927	511	41	856
Back-rest.....	G. W. Hayes.....	371,062	Oct. 4	473	118	41	93
Backwater and animal gate.....	H. H. Baltzley.....	364,206	June 7	13	4	39	1091
Badge. Pall-bearer's.....	J. E. Grosjean.....	373,827	Nov. 29	2338	627	41	944
Bag: See Base-bag. Clothes-pin bag. Feed-bag. Mail-bag. Oil-bag. Paper bag. Provision or lunch bag. Satchel-bottom bag. Tobacco-bag. Traveling-bag.							
Bag.....	J. S. Boyd.....	374,037	Nov. 29	2628	705	41	1000
Bag.....	L. W. Franks.....	366,659	July 19	1252	335	40	254
Bag-catch.....	C. Reinisch and L. Ochse.....	360,113	Mar. 29	2569	652	38	1412
Bag-fastener.....	J. A. Mitchell and W. B. Thomas.....	362,772	May 10	1017	276	39	669
Bag-filler.....	J. C. Jacoby.....	365,748	June 28	2276	592	39	1542
Bag frame. Traveling.....	H. Rupf.....	365,024	June 14	1181	310	39	1314
Bag-frames. Fixture for.....	W. Roemer.....	358,987	Mar. 8	842	213	38	1064
Bag-hinge stay.....	C. Reinisch.....	363,680	May 24	2285	593	39	928
Bag-hinge stay. Telescopic.....	C. Reinisch.....	365,276	June 21	1561	406	39	1394
Bag-holder.....	J. S. Hageman.....	372,411	Nov. 1	187	53	41	505

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Bag-holder	F. Haydon	356,198	Jan. 18	1292	342	38	262
Bag-holder	J. Huber	365,686	June 28	2175	568	39	1524
Bag-holder	W. I. Jordan	362,092	May 3	56	17	39	484
Bag-holder	H. A. Murtoff	356,780	Feb. 1	49	14	38	432
Bag-holder	F. Pease	368,109	Aug. 9	1116	296	40	671
Bag-holder	J. Saurer	363,172	May 17	1568	413	39	783
Bag-holder	A. Schedin	373,199	Nov. 15	1395	370	41	745
Bag-holder	H. Schneck	368,015	Aug. 9	992	266	40	648
Bag-holder	A. H. Smith	361,461	Apr. 19	1529	396	39	301
Bag-holder	L. D. Spafford	359,641	Mar. 22	1799	457	38	1266
Bag-holder	D. S. Wing	362,807	May 10	1054	286	39	676
Bag-holder	G. W. Wright and A. H. Burns	363,780	May 24	2427	630	39	956
Bag-lock	B. F. Jones and J. F. Mains	363,337	May 17	1787	468	39	824
Bag-lock	B. F. Jones and J. F. Mains	363,338	May 17	1788	469	39	824
Bag-lock	W. T. Milliken	369,730	Sept. 13	574	156	40	1153
Bag-lock	C. Oswald	365,623	June 28	2083	544	39	1508
Bag or pocket-book frames. Fastening for	C. Blust	356,915	Feb. 1	239	66	38	466
Bag or pocket-book frames. Fastening for	C. Blust	358,958	Mar. 8	801	202	38	1057
Bag or pocket-book frames. Fastening for	C. Blust	363,042	May 17	1392	368	39	747
Bag or satchel	J. Brown	359,201	Mar. 8	1113	290	38	1116
Bag or satchel fastening	W. Roemer	374,324	Dec. 6	222	59	41	1088
Bag or satchel frame	W. Roemer	374,325	Dec. 6	223	59	41	1088
Bag or valise frame	W. Roemer	358,988	Mar. 8	843	213	38	1064
Bag-tie	G. Alderson	362,349	May 3	385	106	39	549
Bags. Catch for hand	A. Goertz	366,770	July 19	1407	376	40	283
Bags. Frame-handle connection for hand	R. R. Debacher	364,909	June 14	1020	267	39	1286
Bags. Machine for making satchel-bottom or square-bottom	W. Liddell	370,548	Sept. 27	1792	477 478	40	1393
Bags or analogous articles. Making traveling	F. Armbruster	371,405	Oct. 11	952	246	41	193
Bags or pocket-books. Frame for hand	O. A. Lehman	364,357	June 7	206	57	39	1127
Bags or satchels. Combined corner-protector and lock for	A. Peterson	372,762	Nov. 8	704	195	41	613
Bags or satchels. Strap-loop for	C. Reinisch	360,112	Mar. 29	2567	652	38	1412
Bags, satchels, &c. Fastening device for traveling	H. Rumpf	365,760	June 28	2292	596	39	1545
Bags. Sheet-metal handle for traveling	R. C. Jenkinson. (Reissue)	10,845	June 14	1204	318	39	1318
Bags. Woven fabric for forming seamless	B. C. Hardenbrook	358,265	Feb. 22	2203	580	38	854
Bagasse-furnace	F. Cook	362,362	May 3	402	111 112	39	552
Bagasse-furnace	F. Cook	372,969	Nov. 8	1035	277	41	669
Bail-ear	W. Grange	371,136	Oct. 4	573	146	41	113
Bailer	D. F. Brown	373,266	Nov. 15	1489	393	41	763
Bake-pan	W. Hagerty	366,478	July 12	974	264	40	194
Baking furnace and oven	H. McCollum, J. Parr, and A. Crumbie.	365,929	July 5	247	65	40	48
Baking-powder	A. W. Holway	358,612	Mar. 1	293	.....	38	958
Baking-tin	I. E. Brown	373,124	Nov. 15	1270	337	41	724
Balance	W. Kent	363,468	May 24	1975	515 516	39	868
Balance. Chemist's, assayer's, and prospector's	M. Altwood and H. R. Taylor	357,139	Feb. 1	589	151	38	529
Balance-swing	C. Schwager	374,206	Dec. 6	55	14	41	1057
Balcony. Portable adjustable	W. B. Hysan	370,739	Sept. 27	2087	553	40	1447
Bale for baling wood for transportation	R. E. Dietz	362,148	May 3	131	39	39	498
Bale or package tie	J. B. Taylor	357,877	Feb. 15	1651	430	38	747
Bale-tie	E. A. Copeland	364,218	June 7	27	8	39	1093
Bale-tie	W. O. Gunckel	357,989	Feb. 15	1808	474	38	776
Bale-tie	A. S. Hallidie	358,608	Mar. 1	290	69	38	957
Bale-tie	I. A. Kilmer	372,375	Nov. 1	138	41	41	496
Bale-tie	M. D. Kilmer	372,376	Nov. 1	138	41	41	496
Bale-tie	G. Leder	372,420	Nov. 1	202	57	41	508
Bale-tie	W. P. Rylander	355,887	Jan. 11	839	220	38	170
Bale-tie	F. T. Warburton	370,508	Sept. 27	1736	461	40	1383
Bale tie. Cotton	G. B. Boomer	365,572	June 28	2013	525	39	1495
Bale-tie hook	E. L. Clock	363,116	May 17	1493	395	39	766
Bale-tie hooks. Manufacture of	E. L. Clark	363,804	May 31	2469	641	39	969
Bale-tie. Wire	D. H. Mathias	366,635	July 12	1217	324	40	241
Bale-ties. Implement for buckling	F. S. Williams	363,569	May 24	2128	551	39	899
Bale-ties. Machine for making wire	E. S. Lenox and L. Cook	362,452	May 3	534	148 149 150	39	578
Bale-ties. Machine for making wire	E. S. Lenox and L. Cook	374,302	Dec. 6	196	52, 53	41	1083
Bales and appliance therefor. Tying cotton	F. T. Warburton	372,188	Oct. 25	2106	540	41	434
Baling-press	W. B. Bradsby	362,713	May 10	915	249 250	39	651
Baling-press	D. Bromley	369,582	Sept. 6	369	102	40	1105
Baling-press	M. T. Brown	356,445	Jan. 25	1647	432	38	337
Baling-press	J. G. Buchanan	370,374	Sept. 27	1534	410 411	40	1346
Baling-press	E. Butterfield	362,875	May 10	1145	307	39	693
Baling-press	I. N. Cauthorn	374,450	Dec. 6	402	105	41	1122
Baling-press	M. S. Coleman	373,341	Nov. 15	1600	422 423	41	783
Baling-press	T. J. Corning	363,365	May 24	1822	478	39	839
Baling-press	T. J. Corning	368,074	Aug. 9	1071	286	40	662
Baling-press	W. F. Denlis	372,842	Nov. 8	852	227	41	636
Baling-press	W. C. Ellis	372,901	Nov. 8	935	252	41	652
Baling-press	G. Ertel	362,884	May 10	1157	310	39	695
Baling-press	W. R. and N. J. Green	362,272	May 3	286	80	39	529
Baling-press	E. G. Hagquist and S. Rydbeck	362,156	May 3	143	42	39	501
Baling-press	J. A. Hampton	370,475	Sept. 27	1689	448 449	40	1375
Baling-press	D. L. Hannay	368,893	Aug. 16	1519	405	40	758
Baling-press	M. C. Jackson	367,106	July 26	1857	501	40	375
Baling-press	J. B. Johnson	361,764	Apr. 26	1964	512 513	39	389
Baling-press	J. B. and O. B. Johnson	361,013	Apr. 12	896	226	39	170

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Baling-press	J. B. and O. B. Johnson	362,280	May 3	295	82	39	531
Baling-press	W. F. Kengle	360,445	Apr. 5	72	19	39	15
Baling-press	J. La Dow	365,524	June 28	1941	505	39	1481
Baling-press	J. La Dow	367,717	Aug. 2	556	{ 152 153 }	40	556
Baling-press	J. La Dow	369,454	Sept. 6	198	56, 57	40	1070
Baling-press	J. La Dow	373,076	Nov. 15	1200	320	41	710
Baling-press	W. A. Laidlaw	365,187	June 21	1428	{ 376 377 }	39	1370
Baling-press	G. S. Lay	356,481	Jan. 25	1701	444	38	347
Baling-press	W. S. Livengood	375,078	Dec. 20	1325	346	41	1319
Baling-press	J. E. Mansfield	364,836	June 14	912	{ 241 242 }	39	1266
Baling-press	S. T. McCannless	357,400	Feb. 8	945	249	38	606
Baling-press	M. C. Nixon	372,636	Nov. 1	519	{ 142 143 }	41	569
Baling-press	C. Poor and C. Woulf	362,994	May 17	1317	{ 349 350 }	39	731
Baling-press	W. W. Seeley	367,932	Aug. 9	873	237	40	625
Baling-press	W. W. Seeley	374,207	Dec. 6	55	14	41	1057
Baling-press	A. Simpson	373,617	Nov. 22	2035	542	41	876
Baling-press	E. C. Sooy	358,898	Mar. 8	723	{ 178 179 }	38	1042
Baling-press	E. C. Sooy	363,012	May 17	1346	356	39	737
Baling-press	E. F. Stoddard	369,662	Sept. 6	487	134	40	1127
Baling-press	J. J. Stoppie	363,697	May 24	2317	601	39	934
Baling-press	S. W. Trabue	367,868	Aug. 9	772	208	40	607
Baling-press	S. W. Trabue	375,584	Dec. 27	2014	{ 523 524 }	41	1461
Baling-press	J. Watson	367,482	Aug. 2	171	49	40	484
Baling-press	J. Watson	367,483	Aug. 2	178	50	40	485
Baling-press	S. J. Webb	370,509	Sept. 27	1737	461	40	1383
Baling-press	J. R. Webster	358,902	Mar. 8	730	180	38	1043
Baling-press	H. Weddle	374,857	Dec. 13	977	255	41	1246
Baling-press	C. E. Whitman	363,269	May 17	1691	443	39	806
Baling-press	C. E. Whitman	363,928	May 31	2644	686	39	1001
Baling-press	C. E. Whitman	369,306	Aug. 30	2807	{ 748 749 }	40	1024
Baling-press	C. E. Whitman	369,573	Sept. 6	358	{ 99 100 }	40	1102
Baling-press	H. L. Whitman	363,708	May 24	2333	605	39	937
Baling-press	A. Wickey	365,211	June 21	1457	384	39	1377
Baling-press	A. Wickey	366,547	July 12	1075	292	40	214
Baling-press	A. Wickey	370,170	Sept. 20	1247	332	40	1284
Baling-press	L. Wright	369,149	Aug. 30	2597	690	40	983
Baling-press and feeder. Combined	L. G. Thompson and A. H. Isham	363,095	May 17	1459	{ 386 387 }	39	759
Baling-presses. Bale-weighing attachment for	A. Wickey	370,171	Sept. 20	1248	332	40	1285
Baling-presses. Power mechanism for	G. Johnson	366,397	July 12	880	236	40	174
Baling sawdust. Machine for	C. E. Mitchell	370,488	Sept. 27	1708	453	40	1378
Ball:							
See Tube-welding ball.							
Ball and cap-snapper. Combined return-	C. Seiler	358,487	Mar. 1	93	23	38	921
Ball-and-socket joint	H. M. Yale	357,749	Feb. 15	1482	388	38	715
Ball. Detonating-	S. Armstrong	359,490	Mar. 15	1540	394	38	1202
Ball grounds and tennis-courts. Device for laying off base-	B. E. Allen	370,593	Sept. 27	1866	495	40	1406
Ball-trap	C. F. Stock. (Reissue)	10,867	Sept. 13	1013	275	40	1238
Ballast and paving material. Making	W. Davy	371,042	Oct. 4	447	112	41	88
Balling slivers. Machine for	G. J. Torrance	370,574	Sept. 27	1835	{ 488 489 }	40	1401
Balloons. Means and apparatus for propelling and } guiding	C. R. E. Wulff	363,037	May 17	1383	{ 365 366 }	39	745
Balusters. Machine for turning	W. H. Dyer	371,130	Oct. 4	565	144	41	112
Band-cutter and feeder	O. Anderson	359,487	Mar. 15	1536	393	38	1201
Band-cutter and feeder	F. P. Potts	361,235	Apr. 12	1228	312	39	233
Band-cutter and feeder	J. H. Winslow	374,513	Dec. 6	488	127	41	1140
Band for paper, currency, &c	O. S. Matthews	369,543	Sept. 6	315	87	40	1094
Bands. Device for tightening	G. D. Frost	373,017	Nov. 8	1112	296	41	683
Bandage and truss. Combined suspensory	J. Patten	356,497	Jan. 25	1721	449	38	352
Bandage. Suspensory	S. Cooper	366,931	July 19	1611	431	40	321
Bandage. Suspensory	N. W. Miller and G. C. Maughmer	357,494	Feb. 8	1077	284	38	631
Banjo	E. D. Allington	359,658	Mar. 22	1821	463	38	1270
Banjo	E. J. Cubley	357,270	Feb. 8	773	200	38	573
Banjo	F. W. Danner	355,595	Jan. 4	390	105	38	78
Banjo	A. C. Fairbanks	360,005	Mar. 29	2376	600	38	1376
Banjo	C. N. Post and G. B. Durkee	355,337	Jan. 4	65	18	38	14
Banjo	S. S. Stewart	355,896	Jan. 11	859	224	38	174
Banjo	R. B. Walker	360,935	Apr. 12	773	201	39	149
Banjo	W. R. Wood	370,172	Sept. 20	1250	332	40	1285
Banjo-brackets. Manufacture of	J. W. Lyon	360,534	Apr. 5	205	50	39	40
Banjos or violins. Tail-piece for	A. G. Wood	360,790	Apr. 5	552	144	39	104
Bank-register	J. B. Dennis	375,609	Dec. 27	2051	531	41	1466
Banker's case	C. W. Jenks	367,403	Aug. 2	66	17	40	463
Banker's safety express-box	C. R. Arnold	370,671	Sept. 27	1977	524	40	1428
Bar:							
See Car draw-bar. Harvester cutter-bar.							
Checkrein-bar. Mosquito-bar.							
Clothes-bar. Pinch-bar.							
Core-bar. Saddle-bar.							
Cutter-bar. Watch-chain bar.							
Draw-bar. Yoke-bar.							
Grate-bar.							
Bars. Device for breaking	W. R. Hinsdale	362,381	May 3	432	120	39	559
Bars or tubes. Die for corrugating	C. P. Higgins	364,349	June 7	194	54	39	1125

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Barbed nail or spike	C. Kerrison, Jr.	362,843	May 10	1099	297	39	684
Barber's apron	M. Perry	371,353	Oct. 11	876	225	41	179
Barber's chair	J. M. Baker	355,854	Jan. 11	783	206	38	159
Barber's chair	E. Berninghaus	358,326	Feb. 22	2284	603	38	870
Barber's chair	A. N. Hornung	355,872	Jan. 11	815	213	38	165
Barber's chair	G. Knecht	370,877	Oct. 4	186	49	41	37
Barber's chair	T. A. Kochs	374,840	Dec. 13	960	250	41	1242
Barium bioxide. Making	A. Brin	359,423	Mar. 15	1443	.....	38	1184
Barium sulphate. Process of and apparatus for treating	W. M. Page and E. B. Krausse	365,318	June 21	1619	422	39	1406
Barley and other grain. Machine for washing	C. Koch	364,354	June 7	202	56	39	1127
Barometer	J. C. Butler	359,057	Mar. 8	933	238	38	1081
Barometers. Rotary indicator and dial-scale for aneroid	H. S. S. Watkin	364,692	June 14	677	181	39	1224
Barrel	E. Putnam	371,703	Oct. 18	1378	355	41	288
Barrel	J. T. Smith	364,606	June 7	563	151	39	1194
Barrel-carrier	J. W. Shewmaker	359,821	Mar. 22	2071	524	38	1315
Barrel-cleaning machine	U. and H. E. Eberhardt	371,045	Oct. 4	452	113	41	89
Barrel-cover	E. Bridge	355,374	Jan. 4	107	29	38	23
Barrel-cover	G. J. Broemser and E. D. Bradshaw	360,201	Mar. 29	2701	682	38	1436
Barrel-cover	I. F. Danheiser	366,650	July 19	1240	331	40	252
Barrel-cover	J. Moosburgger	368,957	Aug. 30	2335	621	40	931
Barrel-covers. Attachment for screen	J. Konold	360,892	Apr. 12	707	187	39	138
Barrel-firing apparatus	W. S. Wymond	374,570	Dec. 6	582	151	41	1159
Barrel-head and fastening	R. C. Boekler	374,446	Dec. 6	396	104	41	1121
Barrel-heater	A. Hime	374,069	Nov. 29	2678	720	41	1010
Barrel-hoop	J. Cosgrove	366,932	July 19	1612	432	40	321
Barrel-making machine	F. Andrew	371,811	Oct. 18	1531	395	41	319
Barrel-making machine	F. W. Ulrich	356,217	Jan. 18	1319	348	38	267
Barrel. Metallic	C. R. Penfield	362,107	May 3	81	25	39	489
Barrel-opener	D. H. Judd	373,528	Nov. 22	1913	507	41	853
Barrel package. Half	J. H. Marvil and J. Robinson	370,637	Sept. 27	1931	512	40	1419
Barrel-roller	H. N. Hopkins	363,744	May 24	2381	618	39	946
Barrel-skid	A. U. Grummann	366,626	July 12	1202	321	40	237
Barrel-support	H. L., E. J., and A. B. Scofield	371,522	Oct. 11	1108	289	41	225
Barrel-stand	S. R. Mace	371,335	Oct. 11	848	217	41	174
Barrel stand and truck	E. Craig	372,604	Nov. 1	471	126	41	558
Barrelstand or swing and counter-support. Combined	I. G. Pollard	357,940	Feb. 15	1737	454	38	763
Barrel swing and support	T. J. Ford and P. B. Waters	367,802	Aug. 9	685	185	40	588
Barrel swing or crane	C. H. Keehner	363,648	May 24	2243	580	39	920
Barrel-venting device	W. Nicklas and E. Beyer	371,092	Oct. 4	511	129	41	101
Barrel-washing machine	U. Eberhardt	371,046	Oct. 4	453	114	41	89
Barrels. Guard-head for	G. H. and F. O. Knifton	365,079	June 21	1273	336	39	1342
Base-bag	J. L. Brown	367,889	Aug. 9	806	217	40	613
Basin cover. Catch	G. G. Campbell	374,393	Dec. 6	314	83	41	1106
Basin or grease-trap. Settling	G. E. Waring, Jr.	357,349	Feb. 8	871	229	38	592
Basin. Stationary wash	J. Demarest	355,439	Jan. 4	187	50	38	38
Basin stopper. Wash	F. R. Johnson	367,814	Aug. 9	700	189	40	591
Basins. Alarm attachment for overflow	F. Brandt	357,307	Feb. 8	824	214	38	583
Basins, closets, &c. Waste-trap for	S. E. Thomas	371,107	Oct. 4	534	136	41	106
Basins. Device for preventing clogging of catch	L. E. Dingler	359,244	Mar. 15	1182	308	38	1136
Basins, &c. Float-trap for wash	J. W. Grows	372,312	Nov. 1	42	13	41	479
Basins or similar fixtures. Supporting device for stand-pipes of set	T. McHugh	365,400	June 28	1753	454	39	1444
Basins. Overflow and stopper for	A. Beffrey	371,541	Oct. 18	1139	296	41	241
Basins. Waste-pipe and valve for	J. Demarest	358,147	Feb. 22	2042	537	38	823
Basket	W. H. Belknap	356,301	Jan. 18	1438	378	38	290
Basket-cover	A. S. Chamberlin	357,466	Feb. 8	1041	275	38	624
Basket-cover	H. Gary	355,925	Jan. 11	893	234	38	182
Basket cover. Fruit	J. H. Marvil	359,732	Mar. 22	1929	489	38	1289
Basket. Folding	J. J. Pesinger	358,295	Feb. 22	2245	593	38	863
Basket. Fruit	D. D. Forman	370,385	Sept. 27	1550	415	40	1350
Basket. Fruit	G. H. Gillette	375,320	Dec. 20	1652	433	41	1383
Basket. Wooden	T. L. Lee	359,082	Mar. 8	961	246	38	1087
Baskets. Handle for peach	S. C. Case	359,241	Mar. 15	1179	307	38	1135
Bat	E. Cundey	364,160	May 31	2978	773	39	1066
Bath-tub or sink	F. A. Wells	372,347	Nov. 1	93	27	41	489
Bath:							
See Cabinet-bath. Foot and sitz bath.							
Copying-bath. Vapor-bath.							
Bath and wash tub. Combined	W. Watkins	360,634	Apr. 5	345	86	39	66
Bath-tub	W. Cliff	363,048	May 17	1398	370	39	748
Bath-tub	W. D. Stewart	370,098	Sept. 20	1134	300	40	1263
Bath-tub	D. R. Watson	362,340	May 3	375	103	39	547
Bath-tub and wash-basin	O. Hammerstein	360,292	Mar. 29	2840	722	38	1463
Bath-tub, basin, &c.	J. Morrison	359,169	Mar. 8	1070	279	38	1108
Bath-tub. Portable	S. D. Freeman	356,582	Jan. 25	1839	482	38	373
Baths. Process of and means for preparing medicated	M. F. B. Rice	360,173	Mar. 29	2664	{ 672 } { 673 }	{ 38 } { 38 }	1429
Bathing-cap	W. Osborne	364,847	June 14	930	246	39	1269
Bathing-closet and apparatus for administering steam, hot-air, &c., baths. Combined	J. W. Schoenecker	363,423	May 24	1906	501	39	855
Bathing-machine	J. W. James	366,110	July 5	485	131	40	91
Bating	W. M. Norris	365,017	June 14	1171	.....	39	1313
Batten. Metallic	C. F. Delassus and A. Robbins	360,763	Apr. 5	517	134	39	97
Batteries. Device for preventing the escape of noxious fumes from	M. Bailey and J. Warner	363,880	May 31	2571	668	39	988
Battery:							
See Cabinet-battery. Primary battery.							
Carbon battery. Secondary battery.							
Electric battery. Secondary or storage bat-							
Electrical battery. tery.							
Galvanic battery. Therapeutic battery.							
Pocket-battery. Voltaic battery.							
Battery-cell	A. V. Meserole	364,660	June 14	632	170	39	1215

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Battery-jar.....	C. A. Brown.....	373,334	Nov. 15	1594	421	41	782
Battery solution.....	W. P. Kookogey.....	364,656	June 14	627	.....	39	1214
Battery-zinc.....	J. Beattie, Jr.....	359,835	Mar. 22	2094	.....	38	1319
Bayonet.....	H. H. Conklin.....	358,105	Feb. 22	1976	521	38	812
Bayonet.....	C. Schillo.....	361,328	Apr. 19	1348	347	39	267
Bayonet attachment.....	J. N. W. Wilson.....	358,911	Mar. 8	741	183	38	1045
Bead. Hollow oval or conical.....	W. S. Brown.....	363,885	May 31	2576	669	39	989
Beam-connection.....	J. F. Sims and W. B. Morris.....	368,019	Aug. 9	995	267	40	649
Bean-cutter.....	H. A. Grotholtman.....	365,516	June 28	1928	502	39	1478
Beans. Machine for cutting string.....	J. Young and N. Green.....	363,785	May 24	2437	632	39	957
Bearing.....	A. Bannatyne.....	356,521	Jan. 25	1752	456	38	357
Bearing. Anti-friction.....	H. A. King.....	373,807	Nov. 22	2305	617	41	929
Bearing. Ball.....	E. B. Lake.....	366,117	July 5	502	135	40	95
Bearing. Tumbler.....	J. S. Bancroft and W. Lewis.....	373,765	Nov. 22	2237	599 600 601	41	917
Beating-out machine.....	C. E. Holland.....	361,628	Apr. 19	1773	458	39	348
Bed and dressing-case. Combined.....	G. W. Sheppard and S. A. Buell.....	366,191	July 5	597	161	40	113
Bed and wardrobe. Combined folding.....	C. Lockrow.....	370,879	Oct. 4	189	49.50	41	37
Bed-bottom.....	O. H. Baker.....	361,665	Apr. 26	1835	475	39	367
Bed-bottom.....	O. S. and W. S. Foster.....	356,114	Jan. 18	1185	314	38	243
Bed-bottom.....	D. Knowlton.....	371,464	Oct. 11	1028	268	41	209
Bed-bottom.....	G. S. Lowndes.....	373,900	Nov. 29	2441	655 656	41	963
Bed-bottom.....	T. E. O'Brien.....	365,272	June 21	1553	405	39	1393
Bed-bottom. Folding.....	O. S. Foster.....	366,718	July 19	1336	357	40	270
Bed-bottom frames. Machine for securing fabrics to.....	W. S. Seymour.....	357,343	Feb. 8	862	227 228	38	590
Bed-bottom. Spring.....	J. E. Benjamin.....	373,513	Nov. 22	1892	501	41	850
Bed-bottom. Spring.....	C. Bignon.....	364,469	June 7	374	102	39	1159
Bed-bottom. Spring.....	A. S. Clark.....	357,064	Feb. 1	453	120	38	506
Bed-bottom. Spring.....	C. H. Fitch.....	371,497	Oct. 11	1077	281	41	219
Bed-bottom. Spring.....	T. E. O'Brien.....	357,224	Feb. 8	709	182	38	561
Bed-bottom. Spring.....	F. W. Smith and G. D. Livingston.....	368,023	Aug. 9	999	268	40	650
Bed-bottom. Spring.....	G. Steinson.....	357,795	Feb. 15	1546	403	38	727
Bed-bottom. Woven-wire-mattress.....	J. B. Ryan.....	368,309	Aug. 16	1414	373	40	736
Bed-bottoms. Cover for spring.....	W. T. Horton and D. R. Siefkin.....	369,791	Sept. 13	653	178	40	1167
Bed-bottoms. Locking device for.....	O. S. Foster.....	372,369	Nov. 1	128	39	41	494
Bed-comfortable.....	F. L. Palmer.....	365,625	June 28	2085	544	39	1508
Bed-cover holder.....	M. C. Murray.....	373,424	Nov. 15	1736	458	41	808
Bed. Folding.....	R. B. Ayres.....	371,871	Oct. 18	1624	419	41	338
Bed. Folding.....	K. Brooks.....	359,768	Mar. 22	1993	504	38	1300
Bed. Folding.....	K. Brooks.....	367,695	Aug. 2	510	140	40	547
Bed. Folding.....	K. Brooks.....	372,891	Nov. 8	924	249	41	650
Bed. Folding.....	J. H. Cairncross.....	364,214	June 7	23	6.7	39	1092
Bed. Folding.....	B. F. Farrar.....	366,311	July 12	769	207 208	40	153
Bed. Folding.....	G. A. Nelson.....	361,178	Apr. 12	1142	288	39	217
Bed. Folding.....	T. L. Odell.....	357,023	Feb. 1	389	105	38	494
Bed. Folding.....	B. F. and E. L. Owen.....	373,599	Nov. 22	2010	533	41	871
Bed. Folding.....	A. Stark.....	370,426	Sept. 27	1609	429	40	1360
Bed. Folding.....	C. Wetzel.....	364,560	June 7	507	136	39	1183
Bed. Folding.....	F. R. Wolfinger.....	372,004	Oct. 25	1815	470	41	383
Bed for invalids. Adjustable.....	J. Miller.....	359,879	Mar. 22	2173	548	38	1332
Bed frame. Metallic spring.....	M. Burton.....	366,566	July 12	1115	299	40	222
Bed-guard.....	T. D. Smith.....	365,105	June 21	1316	348	39	1349
Bed. Invalid.....	J. D. Smith.....	366,982	July 19	1680	452	40	334
Bed. Knockdown folding.....	J. G. Peace.....	356,010	Jan. 11	1019	268	38	206
Bed-lounge.....	A. Stark.....	370,095	Sept. 20	1128	299	40	1262
Bed or crib.....	C. Lucacs.....	369,605	Sept. 6	404	112	40	1112
Bed-pan.....	A. V. Andrews.....	364,078	May 31	2855	741	39	1043
Bed-pan.....	C. F. Forshaw.....	374,121	Nov. 29	2753	740	41	1024
Bed-pan.....	H. Haertel.....	371,193	Oct. 11	653	167	41	137
Bed-pan.....	E. E. Merron.....	355,881	Jan. 11	831	217	38	168
Bed-pan.....	C. A. Tatam.....	360,490	Apr. 5	138	33	39	26
Bed. Portable.....	J. M. Strout.....	363,773	May 24	2420	628	39	954
Bed-slat fastener.....	L. B. Hopkins.....	372,913	Nov. 8	953	257	41	655
Bed-slat support.....	W. Sloppy.....	371,985	Oct. 5	1787	464	41	379
Bed. Sliding trundle.....	J. C. Smither.....	361,189	Apr. 12	1158	293	39	220
Bed. Sofa.....	C. E. Barber.....	373,329	Nov. 15	1585	419	41	781
Bed. Sofa.....	F. A. Decker.....	373,445	Nov. 22	1764	468	41	826
Bed. Sofa.....	F. W. Heringshausen.....	368,472	Aug. 16	1648	440	40	782
Bed. Sofa.....	S. O., and A. Karpen.....	370,065	Sept. 20	1088	287	40	1254
Bed. Sofa.....	G. E. Krause.....	357,530	Feb. 8	1135	297	38	642
Bed. Sofa.....	L. S. Trotter.....	357,348	Feb. 8	869	229	38	592
Bed. Sofa.....	E. Yeoman.....	373,509	Nov. 22	1885	499	41	848
Bed-sofa.....	H. E. Wolter.....	366,707	July 19	1320	354	40	267
Bed. Sofa or lounge.....	I. N. Miller.....	365,619	June 28	2079	542	39	1507
Bed-spring.....	M. H. Collom.....	374,658	Dec. 13	698	184	41	1192
Bed. Spring.....	J. Allan.....	363,878	May 31	2570	667	39	988
Bed. Spring.....	J. H. Battcher.....	368,905	Aug. 23	2254	599	40	907
Bed. Spring.....	E. and E. W. Edgerton.....	375,141	Dec. 20	1420	370	41	1336
Bed. Spring.....	G. H. King.....	371,591	Oct. 18	1206	315	41	253
Bed. Spring.....	E. Oberndorfer.....	373,750	Nov. 22	2217	593	41	914
Bed. Spring.....	J. Turner.....	355,803	Jan. 11	708	185	38	146
Bed. Spring.....	L. A. Wood.....	355,747	Jan. 11	627	164	38	133
Bed. Spring.....	J. W. Young.....	364,076	May 31	2852	740	39	1042
Bed spring-bottom.....	J. Emmert.....	364,233	June 7	48	15	39	1098
Bed-spring. Oscillating.....	J. R. Masters.....	357,215	Feb. 8	697	180	38	559
Bed-stay.....	C. Bethea.....	374,443	Dec. 6	388	102	41	1120
Bed. Wardrobe.....	L. G. Kellogg.....	360,022	Mar. 29	2408	610	38	1383
Beds. Air-spring bottom for.....	L. Patterson.....	362,532	May 10	650	183	39	603
Beds. Crib attachment for.....	W. C. Walter.....	370,112	Sept. 20	1161	306 307	40	1266
Beds. Device for working upright folding.....	J. Murray.....	375,183	Dec. 20	1474	385	41	1349

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Beds for invalids. Attachment for	H. C. Bailey	372,288	Nov. 1	5	2	41	472
Beds. Invalid attachment for	J. H. Lawton	373,668	Nov. 22	2106	563	41	892
Bedclothes-fastener	A. C. Graves	372,748	Nov. 8	684	189	41	609
Bedclothes-fastener	J. D. Mitchell	361,440	Apr. 19	1505	388	39	296
Bedclothes-holder	S. A. Henning	365,814	July 5	76	22	40	16
Bedding-protector	B. L. Holladay	366,000	July 5	342	91	40	65
Bedding. Retaining device for	W. I. Bunker	368,647	Aug. 23	1882	502	40	835
Bedstead	W. F. Bernstein	368,701	Aug. 23	1970	522	40	852
Bedstead	W. L. Drake	362,433	May 3	503	142	39	572
Bedstead	J. E. England	361,496	Apr. 19	1572	408	39	309
Bedstead	J. M. Klein	371,767	Oct. 18	1467	379	41	307
Bedstead and table. Combined	J. P. Farrell	355,760	Jan. 11	641	{ 167 168 }	38	135
Bedstead attachment	H. J. McCormick	375,645	Dec. 27	2100	547	41	1477
Bedstead attachment. Hospital-	C. Drake	356,352	Jan. 18	1513	397	38	305
Bedstead. Convertible	L. C. H. Miller	367,222	July 26	2025	545	40	407
Bedstead-fastening device	N. H. Waters	357,252	Feb. 8	749	194	38	569
Bedstead. Folding	H. L. Albee	358,101	Feb. 22	1967	{ 519 520 }	38	810
Bedstead. Folding	G. W. Bent	373,121	Nov. 15	1267	336	41	723
Bedstead. Folding	G. Hunzinger	371,758	Oct. 18	1451	375	41	304
Bedstead. Folding	A. Iske	358,451	Mar. 1	40	11	38	911
Bedstead. Folding	F. E. Muller	365,348	June 21	1662	{ 434 435 }	39	1414
Bedstead. Folding	C. W. Peoble	364,285	June 7	113	32	39	1111
Bedstead. Folding	C. W. Peoble	368,966	Aug. 30	2350	624	40	934
Bedstead. Folding	J. G. Twiss	371,232	Oct. 11	707	182	41	148
Bedstead. Folding or wardrobe	P. Madden	360,894	Apr. 12	710	188	39	139
Bedstead. Invalid	C. L. L. Emery	357,586	Feb. 15	1234	324	38	670
Bedstead. Invalid	C. Knapp	359,728	Mar. 22	1923	488	38	1288
Bedstead. Metal	W. H. Edsall	358,151	Feb. 22	2047	538	38	824
Bedstead. Wardrobe-	A. Peterson	375,192	Dec. 20	1485	389	41	1351
Bedstead. Wardrobe-	W. D. Snyder	365,948	July 5	277	72, 73	40	53
Bedstead. Wardrobe-	R. Steel	375,391	Dec. 27	1745	458	41	1410
Bedstead. Wardrobe-	L. W. Welch	364,875	June 14	971	255	39	1277
Bedsteads, gates, &c. Brace for	J. M. Lenix and G. B. Swann	364,027	May 31	2790	723	39	1030
Bedsteads. Mosquito-net-supporting frame for folding	G. C. McLaughlin	359,804	Mar. 22	2046	518	38	1310
Bedsteads. Reclining attachment for	J. E. Beatty	374,922	Dec. 20	1092	285	41	1277
Bedsteads. Tray attachment for	S. B. Bartow, Jr.	355,911	Jan. 11	877	230	38	178
Bee-feeder	M. E. Hastings	371,581	Oct. 18	1196	311	41	251
Bee-feeder	W. H. McWilliams	357,493	Feb. 8	1077	284	38	631
Bee-hive	T. M. Cobb	375,261	Dec. 20	1571	412	41	1368
Bee-hive	F. Danzenbaker	375,269	Dec. 20	1582	{ 414 415 }	41	1370
Bee-hive	F. F. Eckhardt	368,078	Aug. 9	1076	287	40	664
Bee-hive	S. G. Edwards	358,850	Mar. 8	645	159	38	1028
Bee-hives. Honey-section for	D. K. Barnhart	356,817	Feb. 1	101	29	38	442
Beer. Apparatus for forcing	W. Raydt	357,031	Feb. 1	402	109	38	496
Beer, &c. Apparatus for raising	L. Morel	355,619	Jan. 4	420	{ 115 116 }	38	84
Beer-cooler	E. J. Liddicoat and A. W. Utzinger	366,011	July 5	365	99	40	69
Beer-cooling apparatus	C. F. Elze	372,134	Oct. 25	2030	520	41	419
Beer-forcing apparatus	J. Natter	355,464	Jan. 4	220	59	38	44
Beer, &c., from barrels, casks, &c. Apparatus for forcing	H. E. Bailey	364,885	June 14	982	259	39	1279
Beer in fermenting-tubs. Apparatus for cooling	M. Gottfried	357,196	Feb. 8	677	175	38	555
Beer. Transporting	G. A. Gunther and G. L. Fowler	356,714	Jan. 25	2018	530	38	408
Beet-puller	R. R. Burrows	361,205	Apr. 12	1184	300	39	224
Bell	G. W. Goff	373,654	Nov. 22	2090	558	41	888
Bell and burglar-alarm. Combined door-	A. W. Thomas, G. W. Way, and H. R. Stickney.	356,606	Jan. 25	1871	492	38	380
Bell and letter-box. Combined door-	J. H. Pierce	361,448	Apr. 19	1514	{ 391 392 }	39	298
Bell and lock. Alarm-	J. Fee	362,151	May 3	136	40	39	500
Bell. Automatic signal	A. P. Whiting	373,115	Nov. 15	1259	334	41	722
Bell. Call-	W. B. Comstock and A. P. Buxton	365,241	June 21	1499	394	39	1385
Bell. Car-	W. H. Hudson	363,958	May 31	2701	699	39	1010
Bell. Car-	W. H. Hudson	372,265	Oct. 25	2219	568	41	457
Bell-collar	J. J. Marshburn	370,271	Sept. 20	1378	370	40	1309
Bell-cord coupling	E. Brombacher	370,239	Sept. 20	1333	356	40	1301
Bell-cord coupling	C. H. Peters	369,123	Aug. 30	2570	683	40	976
Bell-cord coupling	C. A. Sipe	364,312	June 7	147	41	39	1116
Bell-cord coupling	D. S. White	363,266	May 17	1688	442	39	805
Bell. Door-	T. M. Bales	372,590	Nov. 1	450	121	41	555
Bell. Door-	C. L. Livingston	370,269	Sept. 20	1376	369	40	1309
Bell. Electric	E. W. Hazazer	362,005	Apr. 26	2330	607	39	455
Bell. Electric	H. P. F. Jensen, B. W. Webb, and J. Jensen.	369,989	Sept. 13	966	255	40	1225
Bell. Electric	G. M. Sternberg	373,102	Nov. 15	1233	329	41	717
Bell. Electric	E. A. Wildt	358,910	Mar. 8	739	183	38	1045
Bell. Electric	F. B. Wood	359,309	Mar. 15	1268	328	38	1151
Bell. Electric alarm and signal	S. H. Short	357,865	Feb. 15	1641	427	38	745
Bell. Electric call-	J. G. Noyes	369,808	Sept. 13	677	183	40	1171
Bell. Electric house-	E. G. Coleman	360,660	Apr. 5	381	96	39	72
Bell. Electrical repeating-	H. B. Cox	372,657	Nov. 8	556	152	41	585
Bell. Extension-table call-	J. E. Johnson	358,614	Mar. 1	295	70, 71	38	958
Bell fastener. Sleigh-	H. T. Simons	364,311	June 7	146	41	39	1116
Bell for car-horses	W. Scarffe	374,326	Dec. 6	224	59	41	1088
Bell. Gong-	E. C. Barton	361,807	Apr. 26	2031	528	39	401
Bell. Pneumatic	E. J. Colby	357,699	Feb. 15	1398	368	38	700
Bell-ringer. Steam	G. B. Snow	371,636	Oct. 18	1267	329	41	265
Bell-rope	M. Riley	369,738	Sept. 13	582	158	40	1154
Bell-rope coupling	T. H. Sheldon	375,205	Dec. 20	1501	393	41	1354
Bell-ropes. Coupling-guard for	J. E. Root	362,398	May 3	453	126	39	563

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bell. Signal-.....	G. W. Eddy.....	361,751	Apr. 26	1950	507	39	386
Bell. Signal-.....	H. E. Russell, Jr.....	373,416	Nov. 15	1725	456	41	806
Bell. Sleigh or harness.....	E. L. Brainard and A. W. Barton.....	371,249	Oct. 11	730	186	41	151
Bellows.....	W. G. Davis.....	367,744	Aug. 2	592	161	40	562
Bellows attachment.....	W. E. Ryan.....	368,733	Aug. 23	2021	535	40	861
Belt alarm. Loose.....	J. Paff.....	359,402	Mar. 15	1410	361	38	1178
Belt and pocket. Combined.....	S. Nathan.....	367,996	Aug. 9	965	259	40	643
Belt. Apparel.....	S. Bretzfeld.....	362,601	May 10	753	208	39	620
Belt. Driving.....	J. Arnao, Jr.....	375,308	Dec. 20	1637	429	41	1380
Belt. Driving.....	E. Bockmühl and W. Karthaus.....	372,297	Nov. 1	16	5	41	474
Belt. Driving.....	F. B. Brock.....	370,237	Sept. 20	1332	{ 355 356 }	{ 40 40 }	{ 1300 1300 }
Belt. Driving.....	F. B. Brock.....	370,238	Sept. 20	1333	356	40	1300
Belt. Driving.....	J. Kinder.....	355,453	Jan. 4	205	55	38	41
Belt. Driving.....	S. Ogden.....	364,281	June 7	108	31	39	1110
Belt. Driving.....	C. A. Schieren.....	358,790	Mar. 1	538	132	38	1004
Belt. Electric.....	G. S. Bennett.....	373,044	Nov. 15	1157	310	41	701
Belt. Electric.....	W. W. Dunlap.....	363,886	May 31	2577	670	39	989
Belt. Electric.....	A. Owen.....	368,546	Aug. 16	1750	466	40	800
Belt. Electric.....	J. Williams.....	372,647	Nov. 1	537	147	41	573
Belt. Electric.....	R. E. Williams and T. G. Hammer.....	366,058	July 5	422	115	40	80
Belt. Electro-therapeutic.....	W. L. L. and W. J. Pierce.....	371,356	Oct. 11	878	226	41	179
Belt-fastener.....	J. Butterworth.....	366,924	July 19	1603	429	40	320
Belt-fastener.....	F. E. Jenkins.....	370,873	Oct. 4	181	48	41	36
Belt-fastener.....	J. B. Norton.....	372,427	Nov. 1	213	59	41	510
Belt-fastener.....	A. J. Preston.....	366,127	July 5	517	139	40	98
Belt-fastener.....	L. M. Reed.....	355,841	Jan. 11	764	201	38	156
Belt-fastener.....	T. Remus.....	368,423	Aug. 16	1568	419	40	767
Belt-fastener.....	L. Werner.....	372,732	Nov. 8	664	182	41	605
Belt fastener. Driving.....	I. Newell.....	369,023	Aug. 30	2422	643	40	948
Belt fastener. Machine.....	H. Bramm.....	374,582	Dec. 13	600	156	41	1172
Belt for driving machinery.....	M. Gandy.....	356,933	Feb. 1	262	38	38	469
Belt for machinery.....	J. Arnao, Jr.....	360,751	Apr. 5	502	129	39	94
Belt for transmitting power.....	F. M. Walker.....	357,432	Feb. 8	985	259	38	614
Belt-gear. Reversing.....	H. E. Smith.....	355,569	Jan. 4	358	96	38	72
Belt guide and reel. Combined.....	E. D. Brown.....	360,992	Apr. 12	863	219	39	164
Belt-holder.....	C. Wright.....	372,999	Nov. 8	1080	288	41	678
Belt-hook.....	J. A. Ritz.....	364,673	June 14	651	174	39	1219
Belt-lace guard.....	W. D. Scott.....	358,944	Mar. 8	783	197	38	1053
Belt. Link driving.....	C. A. Schieren.....	355,890	Jan. 11	842	221	38	170
Belt. Link driving.....	J. K. Tullis.....	372,880	Nov. 8	908	245	41	646
Belt. Machine.....	E. Gleadall.....	371,057	Oct. 4	467	117	41	92
Belt or band for driving machines.....	M. Gandy.....	357,077	Feb. 1	471	126	38	509
Belt-reel.....	E. J. Worden.....	360,399	Mar. 29	2985	757	38	1487
Belt-replacer.....	W. B. Knight.....	368,094	Aug. 9	1096	291	40	667
Belt-replacer.....	J. J. Railsback.....	358,787	Mar. 1	535	131	38	1003
Belt-rest.....	W. R. Fee.....	369,173	Aug. 30	2630	698	40	989
Belt-shifter.....	J. Canning.....	367,891	Aug. 9	810	218	40	614
Belt-shifter.....	G. H. Lowe.....	367,533	Aug. 2	258	73	40	500
Belt-shifter.....	G. W. Miller.....	370,153	Sept. 20	1219	323	40	1279
Belt-shifter.....	W. H. Price, Jr.....	371,625	Oct. 18	1254	326	41	263
Belt-shifter.....	C. Ross, Jr.....	368,009	Aug. 9	985	265	40	647
Belt-shifter.....	F. A. Shoemaker.....	371,480	Oct. 11	1046	272	41	213
Belt-shifter.....	J. Walker.....	371,647	Oct. 18	1284	333	41	269
Belt-shifter and brake.....	J. Stewart.....	374,638	Dec. 13	677	178	41	1187
Belt shifter and brake. Combined.....	J. Casey.....	369,228	Aug. 30	2695	{ 715 716 }	{ 40 40 }	{ 1002 1002 }
Belt-shifter, oiler, and shaft-cleaner. Compound.....	J. W. Erskine.....	367,900	Aug. 9	823	221	40	617
Belt-shifting device.....	A. M. Dolph.....	372,523	Nov. 1	344	95	41	536
Belt-shifting device. Automatic.....	S. Jönsson.....	360,775	Apr. 5	537	139	39	101
Belt-stretching machine.....	B. M. Plummer.....	355,472	Jan. 4	235	62	38	48
Belt-tightener.....	J. W. Funk.....	375,673	Dec. 27	2144	557	41	1484
Belt-tightener.....	C. G. Lott.....	361,303	Apr. 19	1320	339	39	262
Belt-tightener.....	S. W. Putnam.....	369,364	Sept. 6	80	25	40	1049
Belt. Voltaic.....	C. B. Judd.....	366,777	July 19	1417	378	40	284
Belts. Apparatus for making laminated.....	M. Gandy.....	358,808	Mar. 1	563	{ 140 141 }	{ 38 38 }	{ 1009 1009 }
Belts. Forming endless laminated.....	M. Gandy.....	358,809	Mar. 1	564	141	38	1009
Belting.....	G. Meacom.....	372,632	Nov. 1	514	141	41	568
Belting.....	A. D. Westbrook.....	356,022	Jan. 11	1034	272	38	209
Belting. Leather.....	C. T. Bodifield.....	375,333	Dec. 27	1670	438	41	1395
Belting. Link.....	D. Young.....	375,040	Dec. 20	1271	332	41	1308
Belting. Machine.....	A. J. Gasking.....	362,269	May 3	279	78	39	527
Belting. Machine for stretching.....	G. F. Page.....	373,847	Nov. 29	2362	{ 634 635 }	{ 41 41 }	{ 948 948 }
Belting. Machinery for the manufacture of rubber.....	I. Plamondon and M. Palmer.....	368,166	Aug. 9	1193	319	40	686
Belting. Manufacturing wire.....	J. E. Emerson and T. Midgley.....	362,577	May 10	713	{ 198 199 }	{ 39 39 }	{ 614 614 }
Belting. Wire.....	J. E. Emerson and T. Midgley.....	362,576	May 10	712	198	39	614
Bench: See Wash-bench.							
Bench and ironing-table. Combined.....	D. H. Weller.....	356,909	Feb. 1	233	64	38	464
Bench-dog.....	D. G. S. Davis.....	364,491	June 7	406	110	39	1165
Bending angle and other bars. Machine for.....	W. Toepfer.....	357,160	Feb. 1	620	160	38	535
Bending-machine.....	M. Kennedy.....	360,098	Mar. 29	2538	{ 646 647 }	{ 38 38 }	{ 1407 1407 }
Bending rails, &c. Machine for.....	J. Abbott.....	365,325	June 21	1630	425	39	1407
Bengal lights. Composition for.....	C. Gerhard.....	363,224	May 17	1635	39	39	795
Bent tube.....	A. Taplin. (Reissue.).....	10,859	Aug. 9	1216	325	40	690
Berry-box.....	W. H. Moser.....	369,651	Sept. 6	470	131	40	1124
Berry-box.....	E. M. Thompson.....	361,557	Apr. 19	1652	428	39	325
Berth. Car.....	F. S. Tull.....	370,429	Sept. 27	1615	430	40	1361
Berth. Self-leveling.....	B. F. Merrill.....	356,658	Jan. 25	1948	{ 511 512 }	{ 38 38 }	{ 395 395 }
Berth. Swinging or self-leveling.....	A. P. Bickmore.....	358,328	Feb. 22	2286	603	38	871

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Bevel	H. L. Naramore	371,210	Oct. 11	675	173	41	142
Bevel	J. Struble	361,243	Apr. 12	1236	315	39	235
Bevel	C. Tiller	368,434	Aug. 16	1588	424	40	771
Bevel	F. E. Witter	358,181	Feb. 22	2098	554	38	834
Bevel and protractor	S. Darling	366,651	July 19	1240	332	40	252
Bevel and square. Combined	R. E. Shaw, L. H. Cutbirth, and J. Platt	365,869	July 5	158	41	40	32
Bevel. Miter	L. H. Lewis	361,532	Apr. 19	1620	419	39	319
Bevel-protractor	M. Coughlin	375,049	Dec. 20	1282	334	41	1310
Beveling and scarfing machine	J. Parker and M. L. Gunning	373,943	Nov. 29	2496	{ 670 671 }	{ 41 38 }	974
Beverages. Purifying and preserving	P. G. Soms and F. A. Weise	367,938	Aug. 9	881	239	40	627
Bib	E. F. M. Spies	358,367	Feb. 22	2339	620	38	880
Bicycle	C. A. Bouck	356,095	Jan. 18	1155	306	38	237
Bicycle	F. W. Brown	355,375	Jan. 4	108	30	38	23
Bicycle	J. Brusie	359,127	Mar. 8	1020	264	38	1099
Bicycle	G. M. Collicutt	370,450	Sept. 27	1647	440	40	1367
Bicycle	C. E. Duryea	364,231	June 7	46	14	39	1097
Bicycle	J. W. Emsley	362,500	May 10	609	172	39	596
Bicycle	T. W. Feeley	371,747	Oct. 18	1436	371	41	301
Bicycle	L. B. Gaylor	361,280	Apr. 19	1284	{ 329 330 }	{ 39 38 }	256
Bicycle	R. Johnston and G. W. Peifer, Jr	360,595	Apr. 5	298	73	39	57
Bicycle	B. Kelsey	359,448	Mar. 15	1476	{ 377 378 }	{ 38 37 }	1190
Bicycle	A. C. Monnin and P. Filliez	361,310	Apr. 19	1331	342	39	264
Bicycle	F. D. Randolph	373,028	Nov. 8	1132	302	41	686
Bicycle	C. J. Schoening	366,690	July 19	1297	347	40	263
Bicycle	G. T. Warwick	362,407	May 3	464	{ 128 129 }	{ 39 38 }	565
Bicycle	J. L. Yost. (Reissue)	10,864	Sept. 6	505	139	40	1132
Bicycle	J. L. Yost and J. B. McCune	366,287	July 12	734	199	40	146
Bicycle	J. L. Yost and J. B. McCune	367,883	Aug. 9	795	215	40	611
Bicycle-backbone	T. B. Jeffery	359,608	Mar. 22	1760	447	38	1258
Bicycle-backbone-bending machine	T. B. Jeffery and L. M. Cottle	361,523	Apr. 19	1608	{ 416 417 }	{ 39 38 }	317
Bicycle-bearing	J. H. Palmer	360,470	Apr. 5	103	26	39	20
Bicycle-brace	A. O. Petit	359,629	Mar. 22	1781	454	38	1262
Bicycle-brake	W. L. Hazen and G. H. Hildreth	359,536	Mar. 15	1614	{ 413 414 }	{ 38 37 }	1216
Bicycle-holder	G. L. Bailey	369,494	Sept. 6	244	69	40	1080
Bicycle-holder	T. B. Jeffery	371,326	Oct. 11	836	214	41	172
Bicycle-lantern	F. P. Prindle and C. H. Koyl	360,392	Mar. 29	2977	{ 754 755 }	{ 38 37 }	1486
Bicycle luggage-carrier	C. R. Bannihir	363,355	May 24	1811	476	39	837
Bicycle-seat	C. A. Williamson	364,075	May 31	2852	740	39	1042
Bicycle-step	T. Benfield	374,287	Dec. 6	158	42	41	1077
Bicycle. Swing	N. Brown	356,028	Jan. 11	1044	274	38	211
Bicycle. Tandem	V. H. Muller	371,513	Oct. 11	1099	286	41	223
Bicycle-tire machine	W. A. McCool	367,721	Aug. 2	562	154	40	557
Bicycle-treadle	R. T. Torkelson	366,279	July 12	725	197	40	145
Bicycle-wheel	W. S. Kelley	362,514	May 10	627	177	39	599
Bicycle-wheel	C. A. E. T. Palmer	359,809	Mar. 22	2054	520	38	1312
Bicycles. Ball-bearing for	G. A. Parker	361,233	Apr. 12	1226	312	39	233
Bicycles. Clutch mechanism for	J. L. Yost and J. B. McCune	366,288	July 12	735	200	40	146
Bicycles. Combined oil-can, wrench, and tool for	D. C. Wilgus	356,566	Jan. 25	1820	476	38	370
Bicycles. Driving-gear for	O. Hanser	367,293	July 26	2135	574	40	426
Bicycles. Handle-bar fastening for	J. B. McCune	362,763	May 10	1003	272	39	666
Bicycles. Lantern-supporting arm for	W. L. Fish	356,112	Jan. 18	1183	313	38	242
Bicycles. Speed-gearing for	P. E. Linnell	362,220	May 3	226	66	39	517
Bicycles. Steering device for	C. S. Leddell	367,049	July 26	1766	477	40	358
Bicycles. Wheel attachment for	J. Brusie	359,126	Mar. 8	1019	263	38	1099
Bicyclists. Home trainer for	J. McClintock	359,800	Mar. 22	2042	517	38	1309
Bill-holder	A. H. Daniels and A. B. Rowell	367,274	July 26	2096	566	40	420
Billiard-ball	G. E. Phelan	359,032	Mar. 8	900	229	38	1075
Billiard-chalk holder or casing	A. Labre	363,898	May 31	2594	674	39	992
Billiard-cue	J. W. Sherwood	364,680	June 14	658	176	39	1220
Billiard-cue	B. H. Weber	370,941	Oct. 4	257	64	41	51
Billiard-cue chalker	S. Clare and E. W. Smith	367,364	Aug. 2	16	4	40	454
Billiard-cues. Machine for trimming the ends of	J. S. Gold	365,301	June 21	1595	415	39	1401
Billiard-cues. Machine for trimming the ends of	W. H. Mueller	362,526	May 10	642	181	39	602
Billiard-table cushion	G. E. Phelan	359,031	Mar. 8	899	229	38	1075
Billiard-table. Folding	C. J. Schoening	364,677	June 14	655	175	39	1220
Billiard-table leveler	P. Bacher	356,816	Feb. 1	100	28	38	442
Billiard-table leveler	H. Rice	372,566	Nov. 1	415	111	41	550
Billiard-table pocket	T. Dougherty	373,016	Nov. 8	1111	296	41	683
Billiard-tables. Attachment for	R. Hubbell and G. W. Bisbee	368,531	Aug. 16	1729	460	40	796
Bin							
See Flour-bin. Flour and meal bin.							
Bin	H. C. E. Petersen	370,557	Sept. 27	1810	481	40	1396
Binder	N. Hawkins	372,467	Nov. 1	271	75	41	522
Binder. Load	P. Sabourin	371,792	Oct. 18	1504	388	41	313
Binder. Newspaper	C. H. Sanford	357,042	Feb. 1	421	112	38	500
Binder. Tablet	W. B. Pearson	374,751	Dec. 13	828	217	41	1218
Binder. Temporary	T. H. Brown, Jr	363,277	May 17	1704	445	39	808
Binder. Temporary	T. H. Brown, Jr	367,017	July 19	1719	463	40	341
Binder. Temporary	E. C. Fales	359,141	Mar. 8	1038	270	38	1102
Binder. Temporary	W. Nash	373,844	Nov. 29	2357	633	41	947
Binder. Temporary	W. D. Ready	369,207	Aug. 30	2669	710	40	997
Binder. Temporary	H. C. Yeiser and A. Dom	368,439	Aug. 16	1595	426	40	772
Binder. Twine	A. L. Geer	368,665	Aug. 23	1909	{ 508 509 }	{ 40 39 }	840
Binders. Sheaf-carrier for	S. D. Lee	366,327	July 12	791	214	40	157
Binders. Tension for twine	E. K. Hill	369,710	Sept. 13	548	151	40	1148
Binding-post	P. J. Higgins	368,149	Aug. 9	1172	313	40	682

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Binding-post	G. Westinghouse, Jr.	358,518	Mar. 1	140	36	38	930
Binnacle. Ship's	F. W. Cross	370,248	Sept. 20	1345	{ 359 360	{ 40	1303
Bird-cages. Extension-chain attachment for	J. B. Underwood	362,127	May 3	104	32	39	493
Biscuits, &c. Machinery for piping or decorating. Bit:	E. Herissé	369,789	Sept. 13	650	{ 175 176 177	{ 40	1166
See Auger-bit. Expansive bit. Bridle-bit. Gag-bit. Boring-bit.							
Bit	J. F. Strange	362,044	Apr. 26	2380	620	39	464
Bit-brace	G. Gavin and L. W. Cromer	366,826	July 19	1481	395	40	295
Bit-brace	J. L. Osgood	361,368	Apr. 19	1410	363	39	278
Bit-brace. Ratchet	L. C. Bolen	360,650	Apr. 5	366	92	39	70
Bit-stock	S. J. Cilley and T. F. Carroll	361,488	Apr. 19	1564	406	39	307
Bit-stock	W. B. Gilmore	374,185	Dec. 6	31	8	41	1052
Bit-stock	A. W. Morgan	361,227	Apr. 12	1219	310	39	231
Bit-stock	H. Smiley	356,214	Jan. 18	1314	347	38	266
Bitters. Stomach-	I. Cooper	365,242	June 21	1500	.....	39	1385
Blackboard	S. C. Sessions	368,976	Aug. 30	2361	627	40	936
Blackboard and copy-holder. Combined rolling	R. B. Cooley	371,429	Oct. 11	984	256	41	200
Blackboard and desk. Combined	G. W. Weiss	356,908	Feb. 1	231	64	38	464
Blackboard and writing-desk. Combined	O. M. Mitchell	366,596	July 12	1161	312	40	230
Blackboard. Revolving	H. H. Lykens and W. E. Rodkey	357,677	Feb. 15	1367	360	38	693
Blackboards. Composition for	J. Jameton	356,363	Jan. 18	1530	.....	38	308
Blackboards, &c. Composition for making	J. D. Emack	356,825	Feb. 1	112	.....	38	444
Blacking	J. Prickett	363,420	May 24	1903	.....	39	854
Blacking apparatus. Electric boot-	H. R. Gardner	366,660	July 19	1253	335	40	254
Blacking-box	C. N. Willis	374,282	Dec. 6	148	39	41	1076
Blacking-box. Handled	S. M. Bixby	359,705	Mar. 22	1891	480	38	1283
Blacking-holder	J. F. Wood	360,335	Mar. 29	2887	735	38	1472
Blacking holder and rest. Shoe-	R. D. McManus	365,696	June 28	2190	572	39	1527
Blacking on ladies' shoes. Device for applying	H. M. Wirz	359,527	Mar. 15	1604	411	38	1214
Blacking stand. Shoe-	J. A. Crandall	371,036	Oct. 4	438	110	41	87
Blackleading-machine	G. E. Lloyd	362,983	May 17	1305	346	39	729
Blank-depository	C. A. Rieder	363,083	May 17	1440	381	39	757
Blank-feeding device. Automatic	E. A. Marsh and D. H. Church	366,592	July 12	1154	{ 309 310	{ 40	229
Blank-feeding mechanism	F. H. Richards	356,893	Feb. 1	213	60	38	460
Blanks. Machine for cutting off and pointing or threading	E. N. Beecher and L. D. Whiting	356,818	Feb. 1	101	29	38	442
Blanket and overcoat. Combined	A. H. King	364,762	June 14	795	210	39	1244
Blast apparatus	T. O. Johnson	363,294	May 17	1726	452	39	812
Blast-furnace	E. Walsh, Jr	366,282	July 12	728	198	40	145
Blast-furnace. Gas	J. H. Hillman	372,912	Nov. 8	949	{ 256 257	{ 41	654
Blast-furnace top	W. Kennedy and J. Scott	365,077	June 21	1271	335	39	1341
Blast-furnaces. Apparatus for heating blasts for	W. B. Devereux	374,240	Dec. 6	99	24	41	1066
Blast machine. Sand-	F. W. King and J. Maw	365,261	June 21	1538	401	39	1390
Blasting-barrel for extracting tree-stumps	C. Heaton	363,233	May 17	1645	432	39	796
Blasting-cap	J. R. France	356,064	Jan. 11	1092	287	38	220
Blasting-cap	J. R. France	356,712	Jan. 25	2015	529	38	407
Blasting earth	H. H. Bourne	371,298	Oct. 11	797	204	41	164
Blasting out rock corners	T. Murdock and J. L. L. Knox	357,730	Feb. 15	1449	379	38	709
Blasting-powder	G. Antheunis	374,921	Dec. 20	1092	.....	41	1277
Blasting-powder	K. J. Sundström	370,025	Sept. 13	1027	.....	40	1235
Bleaching potatoes, &c. Compound for	S. L. Feathers	373,448	Nov. 22	1769	.....	41	827
Blind	J. B. Hartman	360,523	Apr. 5	192	47	39	38
Blind apparatus. Window-	S. E. Howell	367,143	July 26	1910	516	40	384
Blind. Inside	J. W. Anderson	357,888	Feb. 15	1671	435	38	750
Blind. Inside	F. Keller	373,665	Nov. 22	2103	562	41	891
Blind or shade. Window	M. G. Mitter	362,524	May 10	639	180	39	602
Blind-roller and fittings	W. H. Keates	360,531	Apr. 5	202	50	39	40
Blind-slat rod	C. Urich	369,484	Sept. 6	232	66	40	1078
Blind-slats. Means for adjusting	W. Morstatt	360,612	Apr. 5	316	78	39	60
Blind. Sliding window-	J. B. Hartman	368,530	Aug. 16	1728	460	40	796
Blind. Sliding window-	G. Poppert	358,477	Mar. 1	81	21	38	919
Blind. Sliding window-	G. Poppert	364,955	June 14	1086	283	39	1298
Blind. Sliding window-	R. M. Wilson	374,105	Nov. 29	2732	733	41	1021
Blind-stop	J. Chase	369,231	Aug. 30	2698	716	40	1003
Blind-stop	L. T. Gulick	357,381	Feb. 8	922	243	38	602
Blind-stop	W. W. Rexford	373,308	Nov. 15	1555	412	41	775
Blind-stop	E. C. Smith	364,054	May 31	2824	733	39	1037
Blind switch	J. McKenna	359,088	Mar. 8	970	248	38	1089
Blind. Venetian	H. T. Buhmeier	371,300	Oct. 11	801	204	41	165
Blind. Venetian	F. A. Howson	366,837	July 19	1496	399	40	299
Blind. Window-	J. W. Brainard and A. D. Swan	367,358	Aug. 2	10	3	40	453
Blind. Window-	J. Cahill	368,808	Aug. 23	2120	561	40	880
Blind. Window-	J. Fawcett	357,277	Feb. 8	780	202	38	575
Blind. Window-	J. B. Hartman	373,067	Nov. 15	1188	317	41	708
Blind. Window-	E. Louderback	369,254	Aug. 30	2726	725	40	1009
Blind. Window-	W. Morstatt	361,019	Apr. 12	902	228	39	171
Blind. Window-	J. Snell and A. Van Slyke	360,058	Mar. 29	2467	628	38	1394
Blinds. Guide-frame for sliding window-	G. Poppert	362,854	May 10	1115	301	39	687
Blinds. Lift for sliding	H. E. Willer	374,385	Dec. 6	304	80	41	1104
Blinds. Receptacle for sliding window-	H. E. Willer	374,384	Dec. 6	303	80	41	1104
Block:							
See Brake-block. Printer's block. Building-block. Printing-block. Cut-out block. Pulley-block. Embossing-block. Sheave-block. Horse-block. Snatch-block. Paving-block. Tackle-block. Pigeon-hole block. Wagon-block.							
Block or chunk pin	G. V. Brecht	372,595	Nov. 1	457	122	41	556

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr:g.	Vol.	Page.
Blocks. Machine for cutting round	O. C. Fenlason	363,222	May 17	1633	429	39	794
Blocker and tablet	A. K. Owen	366,424	July 12	907	245	40	180
Blood. Instrument for transfusion of	E. E. Allen	365,327	June 21	1632	426	39	1408
Blotter	J. P. Gage	366,949	July 19	1640	440	40	327
Blotter. Adjustable	E. Covert	362,361	May 3	401	111	39	552
Blotter. Ink	L. S. Smith	374,713	Dec. 13	778	204	41	1208
Blotting-pad holder and protector	J. W. Knaggs	371,507	Oct. 11	1093	284	41	222
Blouse-waist	R. E. Lowe	365,480	June 23	1865	485	39	1464
Blower. Fan	A. H. Berry	370,920	Oct. 4	275	67, 68	41	54
Blower. Fan	W. D. Smith	374,093	Nov. 29	2717	729	41	1018
Blower. Fire-place	R. Ely	363,997	May 31	2750	713	39	1022
Blower for stoves. Adjustable	W. L. Bridgeford	361,809	Apr. 26	2033	528	39	401
Blower for stoves and fire-places	F. J. Hess	358,447	Mar. 1	35	10	38	910
Blower for stoves or grates	O. J. Backus	374,334	Dec. 6	232	62	41	1090
Boa	B. Wolff	364,617	June 7	573	154	39	1195
Board:							
See Bosom-board.	Harvester butting-board.						
Bulletin-board.	Ironing-board.						
Card-board.	Multiple switch-board.						
Compound board.	Organ socket-board.						
Dash-board.	Paper-board.						
Drawing-board.	Piano sound-board.						
Electric-light switch-board.	Plaiting-board.						
Electrical-resistance-board.	Stove-board.						
Game-board.	Wash-board.						
Game and advertising board.							
Boards. Double-tonguing	S. J. Shimer	367,675	Aug. 2	483	133	40	542
Boat:							
See Ferry-boat.	Sail-boat.						
Ice-breaking boat.	Sectional boat.						
Life-boat.	Steamboat.						
Minnow-boat.	Torpedo-boat.						
Boat	N. S. and E. R. Bowdish	368,058	Aug. 9	1046	280	40	658
Boat-detaching mechanism	J. W. Willing	373,325	Nov. 15	1580	418	41	780
Boat-grip	T. Emerson	355,983	Jan. 11	988	259	38	201
Boat-indicator	A. Leith	359,511	Mar. 15	1571	403	38	1207
Boat-knee	D. True	371,644	Oct. 18	1279	332	41	268
Boat lowering and hoisting device	L. J. M. Boyd	374,929	Dec. 20	1102	287	41	1278
Boat-slide. Marine	H. H. Schaefer	357,790	Feb. 15	1541	401	38	725
Boats, &c. Bridge-brow for ferry	H. Brooke	369,429	Sept. 6	164	48	40	1063
Boats. Compressed seam for	N. S. and E. R. Bowdish	356,096	Jan. 18	1157	306	38	238
Boats' gunwales. Roller attachment for	P. S. Katsenys	366,007	July 5	356	96	40	67
Boats or other vessels. Knee for	H. H. Buck	362,487	May 10	590	166	39	592
Boats. Rowing attachment for	S. B. Lard	365,610	June 28	2069	539	39	1505
Boats. Sliding top-mast rigging for	E. S. Jones	367,715	Aug. 2	555	152	40	555
Bob. Mechanical	F. M. Gray	371,575	Oct. 18	1189	{ 309 } 310	41	249
Bobbin	E. Atwood and C. H. Cowan	371,296	Oct. 11	796	203	41	164
Bobbin	A. A. Davis	371,827	Oct. 18	1552	401	41	324
Bobbin	C. Hardy	367,622	Aug. 2	385	109	40	525
Bobbin or cop-tube	J. Essex and A. Ball	363,323	May 17	1766	463	39	819
Bobbin-stand	A. W. Parkhurst	363,671	May 24	2273	589	39	926
Bobbin-winder	D. W. Corey	366,909	July 5	214	55	40	42
Bobbin-winders. Thread-roll pin for	C. D. Austin	365,291	June 21	1581	411	39	1398
Bobbin-winding machine	C. F. Wickwire	364,694	June 14	679	181	39	1224
Body-protector	W. Gray	374,150	Nov. 29	2792	750	41	1031
Bogie	J. Brown and T. Midelton	356,347	Jan. 18	1506	396	38	303
Bogs. Apparatus for cutting	C. E. Patterson	359,541	Mar. 15	1621	415	38	1217
Boiler:							
See Agricultural boiler.	Steam-boiler.						
Coiled-tube boiler.	Steam and hot-water boiler.						
Culinary boiler.	boiler.						
Domestic boiler.	Steam and water boiler.						
Locomotive-boiler.	Steam or hot-water boiler.						
Marine boiler.	Tubular boiler.						
Milk-boiler.	Tubular expansion-boiler.						
Multitubular boiler.	Wash-boiler.						
Portable boiler.	Water-tube boiler.						
Sectional boiler.							
Boiler	G. Bolton	368,645	Aug. 23	1880	501	40	835
Boiler	C. H. Caswell	367,185	July 26	1959	{ 529 } 530	40	394
Boiler	J. A. Cauldwell	370,241	Sept. 20	1335	357	40	1301
Boiler	M. J. Galligan	359,672	Mar. 22	1837	{ 466 } 467	38	1272
Boiler	G. D. Gilbert	364,506	June 7	423	114	39	1168
Boiler	J. Leightham	362,021	Apr. 26	2353	613	39	459
Boiler	M. Mahony	367,988	Aug. 9	951	256	40	640
Boiler	J. A. Svedberg	368,739	Aug. 23	2026	537	40	863
Boiler	H. Wojan	367,488	Aug. 2	189	53	40	487
Boiler apparatus. Fuel-feeder for	G. H. Patullo	364,851	June 14	934	247	39	1270
Boiler attachment	E. F. Barber	357,894	Feb. 15	1677	436	38	751
Boiler attachment	C. H. Waterous, Jr	367,481	Aug. 2	170	49	40	484
Boiler-cleaner	D. N. Baxter	370,306	Sept. 20	1424	382	40	1318
Boiler-cleaner	A. De Camp	359,501	Mar. 15	1558	398	38	1205
Boiler-cleaner	F. W. Hornish	370,060	Sept. 20	1081	286	40	1253
Boiler-cleaner	W. Kent	367,915	Aug. 9	843	228	40	621
Boiler-cleaner	L. Schröter	366,796	July 19	1438	384	40	288
Boiler-cleaner	R. S. Smith and J. Meiklejohn	374,502	Dec. 6	474	123	41	1137
Boiler-cleaner	C. D. Wilcox	363,443	May 24	1934	588	39	860
Boiler-cleaner and water-heater	A. H. Crockford	360,145	Mar. 29	2619	663	38	1420
Boiler-cleaner. Automatic mechanical	L. M. Anway	373,712	Nov. 22	2169	580	41	904

Alphabetical list of inventions—Continued.

Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Boiler cleaner. Steam.....	W. B. Moore.....	375,648	Dec. 27	2103	548	41	1477
Boiler cleaner. Steam.....	H. Rushton.....	360,821	Apr. 5	598	157	39	113
Boiler compounds. Apparatus for feeding.....	J. C. Dolan.....	361,679	Apr. 26	1852	480	39	370
Boiler-explosions. Safeguard against.....	J. E. Siebel.....	355,793	Jan. 11	696	182	38	144
Boiler-feed and steam-trap. Interchangeable.....	G. W. Baird.....	368,641	Aug. 23	1874	500	40	833
Boiler-feeding and water-forcing device.....	J. Bainbridge.....	366,912	July 19	1586	425	40	317
Boiler-flue.....	D. Purves.....	372,487	Nov. 1	295	81	41	527
Boiler-flue attachment.....	J. Kelly.....	373,237	Nov. 15	1458	384	41	756
Boiler-flue cleaner.....	F. L. McGahan.....	365,836	July 5	107	29, 30	40	22
Boiler for heating water for bathing or other purposes.....	E. Hosford.....	358,271	Feb. 22	2214	583	38	856
Boiler for steam-heaters.....	W. C. Bronson.....	365,670	June 28	2157	562	39	1521
Boiler for steam-heating.....	J. S. Priest.....	369,470	Sept. 6	218	61	40	1074
Boiler-furnace.....	I. Bowe.....	371,872	Oct. 18	1625	{ 419 420 }	{ 41 38 }	{ 338 876 }
Boiler-furnace.....	J. Ham.....	358,351	Feb. 22	2320	615	38	876
Boiler-furnace.....	F. Ludwig.....	372,422	Nov. 1	204	58	41	508
Boiler-furnace.....	R. Stewart.....	364,382	June 7	239	67	39	1134
Boiler furnace. Steam.....	J. Anderson.....	360,079	Mar. 29	2505	637	38	1401
Boiler furnace. Steam.....	J. Ashcroft.....	356,675	Jan. 25	1968	517	38	399
Boiler furnace. Steam.....	J. Ham.....	360,385	Mar. 29	2970	753	38	1485
Boiler furnace. Steam.....	Z. T. Reno.....	359,034	Mar. 8	902	230	38	1075
Boiler furnace. Steam.....	J. R. Youart.....	357,442	Feb. 8	999	264	38	616
Boiler-furnaces. Shield for.....	W. Madden.....	356,285	Jan. 18	1414	373	38	286
Boiler gage and alarm. Automatic.....	J. Nurnberger.....	358,289	Feb. 22	2237	590	38	861
Boiler-head and man-hole.....	N. W. Pratt.....	368,611	Aug. 23	1839	491	40	827
Boiler or other furnace. Steam.....	F. A. Jones.....	360,886	Apr. 12	699	{ 183 184 }	{ 39 39 }	{ 137 137 }
Boiler or other furnace. Steam.....	F. A. Jones.....	360,887	Apr. 12	700	{ 184 185 }	{ 39 39 }	{ 137 137 }
Boiler-scale. Compound for preventing.....	J. A. Omens.....	361,180	Apr. 12	1145	.....	39	217
Boiler-sections. Machine for making.....	J. Windle.....	358,524	Mar. 1	166	40	38	933
Boiler-setting.....	T. Poore.....	365,858	July 5	142	38	40	29
Boiler stand or pedestal.....	A. P. Creque.....	375,133	Dec. 20	1409	366	41	1534
Boiler-tube.....	E. S. T. Kennedy.....	368,836	Aug. 23	2155	571	40	887
Boiler-tube cleaner.....	C. F. Bower.....	359,383	Mar. 15	1389	355	38	1173
Boiler-tube cleaner.....	H. L. Currier.....	368,655	Aug. 23	1891	504	40	837
Boiler-tube cleaner.....	H. L. Currier.....	373,926	Nov. 29	2471	664	41	969
Boiler-tubes. Device for protecting.....	W. Hague and W. B. Cookson.....	370,865	Oct. 4	170	45	41	34
Boilers. Apparatus for purifying the water in steam.....	J. W. Hyatt.....	366,170	July 5	570	153	40	107
Boilers. Combined drum-head and manifold for sectional steam.....	M. J. Martinez and O. Muller.....	368,600	Aug. 23	1821	485	40	824
Boilers. Compound for cleaning.....	J. Mast.....	371,775	Oct. 18	1476	.....	41	308
Boilers. Connecting-box for sectional steam.....	O. Muller.....	368,602	Aug. 23	1823	484	40	824
Boilers. Connecting-box for sectional steam.....	O. Muller.....	368,603	Aug. 23	1823	485	40	824
Boilers. Connecting-box for sectional steam.....	N. W. Pratt.....	368,610	Aug. 23	1839	491	40	827
Boilers. Connecting-box for sectional steam.....	N. W. Pratt.....	368,613	Aug. 23	1841	492	40	827
Boilers. Connecting-box for sectional steam.....	N. W. Pratt.....	368,616	Aug. 23	1844	493	40	828
Boilers. Device for placing fusible plugs in.....	J. A. Grube.....	358,657	Mar. 1	353	84	38	969
Boilers. Device for preventing the explosion of.....	B. Meyer.....	370,641	Sept. 27	1936	513	40	1420
Boilers. Drum-head manifold for sectional steam.....	C. P. Higgins.....	368,585	Aug. 23	1804	480	40	820
Boilers. Explosive safety-plug for.....	G. W. Layman, J. A. Dempsey, and T. Coppinger.....	371,333	Oct. 11	845	216	41	173
Boilers. Furnace-front for.....	J. C. Shuler.....	371,382	Oct. 11	920	237	41	186
Boilers. Hydrocarbon-burner for steam.....	J. B. Deeds.....	364,993	June 14	1142	299	39	1308
Boilers. Manifold for water-tube.....	N. W. Pratt.....	368,612	Aug. 23	1840	492	40	827
Boilers. Manifold for water-tube.....	N. W. Pratt.....	368,614	Aug. 23	1842	492	40	828
Boilers. Manifold for water-tube.....	N. W. Pratt.....	368,615	Aug. 23	1843	492	40	828
Boilers. Manufacture of hangers for steam.....	H. L. Wilson.....	362,473	May 3	567	{ 157 158 }	{ 39 41 }	{ 583 912 }
Boilers. Means for and method of making corrugated headers for water-tube.....	W. Kent.....	373,743	Nov. 22	2209	591	41	912
Boilers. Pedestal for range.....	A. P. Creque.....	375,412	Dec. 27	1772	464	41	1415
Boilers. Preventing incrustation of steam.....	H. Gregg.....	361,281	Apr. 19	1287	.....	39	256
Boilers. Preventing the formation of scale in steam.....	E. Mather.....	372,985	Nov. 8	1055	282	41	674
Boilers. Purifying water for.....	C. Elliot.....	374,828	Dec. 13	943	246	41	1240
Boilers. Safety-vent for steam.....	W. C. Baker.....	372,289	Nov. 1	7	3	41	472
Boilers, &c. Scaling-tool for.....	G. Cowie, Jr.....	368,876	Aug. 23	2213	588	40	899
Boilers. Water-cleaner for.....	J. W. Hyatt.....	362,841	May 10	1096	297	39	684
Boilers. Water-gage for steam.....	F. A. Drummond.....	368,197	Aug. 16	1248	333	40	704
Boiling or heating liquids or other substances. Apparatus for.....	J. F. Blake.....	364,470	June 7	375	102	39	1159
Bolt:							
See Chain-bolt. Interlocking bolt.							
Double-acting bolt. Reel-bolt.							
Elevating-bolt. Screw-bolt.							
Felly-bolt. Shaking bolt.							
Flour-bolt. Thill-coupling bolt.							
Bolt.....	J. M. Case.....	370,726	Sept. 27	2071	549	40	1445
Bolt.....	M. S. Cedarvall.....	375,604	Dec. 27	2044	530	41	1466
Bolt.....	F. T. Cladek.....	374,451	Dec. 6	403	105	41	1122
Bolt.....	P. Forg.....	370,773	Oct. 4	32	8	41	9
Bolt.....	A. J. Hardenbergh.....	366,394	July 12	877	235	40	173
Bolt.....	H. H. Lockwood.....	363,074	May 17	1430	379	39	755
Bolt.....	A. W. McIntyre.....	367,827	Aug. 9	719	193	40	595
Bolt.....	E. F. W. Zarbock.....	374,229	Dec. 6	83	21	41	1063
Bolt-cutter.....	G. S. Lannon and F. Mallett.....	372,756	Nov. 8	695	192	41	611
Bolt-cutter.....	J. R. Smith.....	361,554	Apr. 19	1647	427	39	324
Bolt-cutter.....	J. H. Windisch.....	365,455	June 28	1828	476	39	1457
Bolt-cutter.....	A. Wood.....	375,037	Dec. 20	1266	331	41	1308
Bolt-cutting machine.....	W. H. Johnson.....	367,404	Aug. 2	67	17	40	463
Bolt-fastener.....	T. Taylor.....	363,021	May 17	1358	359	39	740
Bolt head. Ornamental screw.....	H. Higgin.....	369,242	Aug. 30	2712	721	40	1006
Bolt-heading machine.....	J. R. Blakeslee.....	364,208	June 7	16	4, 5	39	1091
Bolt-heading machine.....	W. E. Ward.....	369,375	Sept. 6	94	29	40	1052
Bolt-holder.....	A. Clark.....	358,016	Feb. 22	1844	488	38	788

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bolt holes. Device for tapping stay.....	J. T. Connelly.....	373,815	Nov. 29	2319	621	41	940
Bolt-releasing device. Electric.....	G. L. Henzel.....	358,975	Mar. 8	824	208	38	1061
Bolt-threading machine.....	J. W. Adams.....	357,300	Feb. 8	812	211	38	581
Bolt-threading machine.....	C. E. Roberts.....	369,963	Sept. 13	923	245	40	1217
Bolts and nuts. Machine for threading.....	F. M. Kennedy.....	372,541	Nov. 1	378	{ 102 103 }	{ 41 41 }	542
Bolts. Machine for turning.....	E. P. Baviile.....	361,571	Apr. 19	1681	434	39	329
Bolts. Manufacture of.....	W. Shields.....	367,166	July 26	1936	522	40	390
Bolting-chests. Cut-off gate for.....	J. B. Cornwall.....	371,433	Oct. 11	991	258	41	201
Bolting-machine.....	J. Huxtable.....	360,592	Apr. 5	292	71	39	56
Bonnet-pin.....	I. E. Nagle.....	357,020	Feb. 1	386	104	38	494
Book-adjuster.....	I. J. Adair.....	357,543	Feb. 8	1160	304	38	647
Book and tally-sheet. Combined poll.....	W. M. Kinnard.....	371,948	Oct. 25	1737	449	41	368
Book attachment.....	A. Bieber.....	370,525	Sept. 27	1765	470	40	1387
Book-binder's gold cleaning and saving machine.....	J. N. Ives.....	361,632	Apr. 19	1777	{ 459 460 }	{ 39 39 }	349
Book-binding.....	L. W. Fifield and A. I. Jacobs.....	361,152	Apr. 12	1108	280	39	210
Book-binding.....	G. Huether.....	375,488	Dec. 27	1874	490	41	1435
Book-binding.....	T. C. Love, Jr.....	362,754	May 10	991	269	39	664
Book-binding.....	A. J. Megee.....	364,624	June 7	581	156	39	1197
Book-binding band.....	G. Huether.....	365,520	June 28	1934	503	39	1479
Book-case. Revolving.....	D. C. McMartin.....	365,085	June 21	1282	339	39	1343
Book, &c. Check.....	L. J. Evans.....	371,440	Oct. 11	999	260	41	203
Book-clasp.....	A. C. Hafely.....	374,674	Dec. 13	723	190	41	1197
Book-clasp.....	G. Klapproth.....	373,562	Nov. 22	1956	{ 518 519 }	{ 41 41 }	860
Book. Conductor's trip.....	A. R. Gustafson.....	366,579	July 12	1133	303	40	226
Book. Copying or record.....	C. Heaton.....	364,715	June 14	717	191	39	1232
Book-cover.....	J. M. Bronson.....	366,918	July 19	1596	428	40	319
Book-cover.....	A. J. Kletzker.....	361,950	Apr. 26	2237	582	39	440
Book cover. Writing.....	J. M. Kent.....	369,532	Sept. 6	301	83	40	1091
Book-covers, &c. Imitation bronze or other ornamental plate for.....	C. Wagenführ.....	368,741	Aug. 23	2029	537	40	863
Book. Election.....	E. L. and E. L. Barrett.....	369,312	Sept. 6	8	2, 3	40	1036
Book-folding machine.....	E. T. Hazeltine.....	369,599	Sept. 6	393	109	40	1110
Book-holder.....	J. L. Clark.....	362,060	May 3	13	4	39	475
Book-holder.....	A. Dom.....	359,245	Mar. 15	1183	{ 308 309 }	{ 38 38 }	1136
Book-holder.....	T. Hansen.....	362,741	May 10	956	260	39	659
Book-holder.....	L. C. Norris.....	361,316	Apr. 19	1337	343	39	265
Book-holder.....	L. W. Noyes.....	366,680	July 19	1285	343	40	260
Book-holder.....	G. S. Richmond, Jr.....	359,180	Mar. 8	1083	282	38	1111
Book-holder.....	W. Simmonds.....	369,475	Sept. 6	222	63	40	1075
Book-holder. Adjustable.....	P. A. Drake.....	368,388	Aug. 16	1512	403	40	756
Book holder and cover.....	C. H. Bartlett.....	362,925	May 17	1222	326	39	714
Book holder and cover.....	F. X. Cline and A. Cornstadt.....	370,244	Sept. 20	1341	358	40	1302
Book holder and line-indicator. Note.....	A. H. Merrill.....	358,814	Mar. 1	579	144	38	1011
Book. Index.....	F. Rosewater.....	356,334	Jan. 18	1484	391	38	299
Book. Indexed.....	F. Rosewater.....	371,791	Oct. 18	1503	388	41	313
Book, magazine, or paper holder.....	N. A. Hamilton.....	360,960	Apr. 12	811	208	39	156
Book. Manifold copying.....	J. L. O'Connor.....	362,529	May 10	644	182	39	603
Book. Painter's sample.....	J. H. Parker.....	371,701	Oct. 18	1376	355	41	287
Book. Pocket check.....	C. R. Smead.....	368,020	Aug. 9	996	268	40	649
Book. Pocket memorandum.....	C. H. Knight.....	370,793	Oct. 4	60	15	41	14
Book-rest.....	A. C. Brower.....	359,056	Mar. 8	932	238	38	1081
Book-rest.....	W. Small.....	372,496	Nov. 1	308	85	41	529
Book-rest and chart-support. Combined.....	C. S. Small.....	370,824	Oct. 4	97	26	41	21
Book-stitching machine.....	F. D. Taylor and J. A. White.....	365,651	June 28	2119	{ 553 554 555 }	{ 39 39 39 }	1514
Book-support.....	J. Danner.....	355,511	Jan. 4	279	74	38	56
Book-support.....	J. H. Ferguson.....	356,826	Feb. 1	112	31	38	444
Book-support.....	B. R. King.....	363,396	May 24	1863	490	39	847
Book-support.....	B. C. Mathews.....	364,360	June 7	209	58	39	1128
Book-support.....	P. O. Peterson.....	362,226	May 3	232	67	39	518
Book. Transfer.....	E. B. Hutchinson.....	356,715	Jan. 25	2019	531	38	408
Book with detachable cover. Pocket memorandum or other.....	P. Closs and J. A. Hearn.....	371,425	Oct. 11	979	255	41	199
Books, &c. Adjustable holder for.....	L. B. Lake and E. Sawyer.....	360,965	Apr. 12	821	210	39	158
Books and albums. Hinged cover for.....	J. Borgersen.....	375,044	Dec. 20	1275	333	41	1309
Books and pamphlets. Manufacture of.....	D. S. Clark.....	375,125	Dec. 20	1397	{ 363 364 }	{ 41 41 }	1332
Books. Cutting attachment for check.....	S. W. Paine.....	361,541	Apr. 19	1634	424	39	321
Books. Cutting attachment for check.....	S. W. Paine.....	367,230	July 26	2034	548	40	409
Books. Machine for cutting index-steps in blank.....	C. Seybold.....	360,330	Mar. 29	2881	733	38	1470
Books. Machine for rounding and backing.....	E. Crawley.....	372,128	Oct. 25	2014	{ 517 518 }	{ 41 41 }	418
Books. Making indexed.....	E. C. M. Rand.....	359,469	Mar. 15	1504	385	38	1196
Books. Manufacture of illustrated.....	R. Worthington.....	373,791	Nov. 22	2279	{ 610 611 }	{ 41 41 }	924
Books. Page-fastener for.....	W. I. Winne.....	374,386	Dec. 6	305	81	41	1104
Books, pamphlets, &c. Leaf-holder for.....	S. C. Thompson.....	369,217	Aug. 30	2682	{ 712 713 }	{ 40 40 }	999
Books. Protector for the covers of.....	R. J. Henry, Jr., and H. K. Brown.....	368,889	Aug. 23	2229	593	40	902
Books with metallic staples. Apparatus for binding.....	C. L. Lasch.....	364,526	June 7	464	125	39	1175
Boom.....	B. Boutell.....	359,765	Mar. 22	1988	503	38	1299
Boom for sailing-yachts.....	F. C. Johnson.....	358,673	Mar. 1	380	91	38	974
Boot.....	W. Reindl and A. Lotstrom.....	360,916	Apr. 12	741	194	39	144
Boot and manufacture of same. Fabric.....	M. V. Beiger.....	374,338	Dec. 6	240	64	41	1091
Boot and shoe heels. Rotary cutter for trimming.....	W. Manley.....	374,418	Dec. 6	349	91	41	1112
Boot and shoe sole and heel trimming machine.....	C. H. Trask.....	357,738	Feb. 15	1459	{ 381 382 383 }	{ 38 38 38 }	711
Boot and shoe uppers. Device for packing.....	C. W. Haselton.....	357,556	Feb. 8	1184	311	38	651
Boot-cleaner.....	S. L. Bean.....	367,129	July 26	1888	511	40	381

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Boot-crimper.....	E. B. La Follette	357,836	Feb. 15	1601	415	38	737
Boot. Fabric.....	M. V. Beiger.....	370,307	Sept. 20	1425	383	40	1319
Boot. Felt.....	J. Berkey.....	375,331	Dec. 27	1667	438	41	1395
Boot. Felt.....	H. G. Charlesworth	355,972	Jan. 11	976	256	38	198
Boot. Felt.....	F. M. Fargo.....	371,746	Oct. 18	1435	371	41	301
Boot. Felt.....	D. F. Messer.....	357,153	Feb. 1	611	157	38	533
Boot. Felt.....	W. F. Quigley.....	373,305	Nov. 15	1550	409	41	774
Boot. Felt.....	E. Roos.....	357,099	Feb. 1	504	134	38	515
Boot. India-rubber.....	G. Watkinson.....	358,236	Feb. 22	2162	571	38	846
Boot-jack.....	J. Berkey.....	375,330	Dec. 27	1667	437	41	1395
Boot-jack.....	J. H. Kennedy.....	370,197	Sept. 20	1283	342	40	1291
Boot-jack.....	C. M. Littleton.....	374,076	Nov. 29	2689	722	41	1012
Boot or shoe.....	T. D. Barry.....	360,756	Apr. 5	507	131	39	95
Boot or shoe.....	G. Boivin.....	366,757	July 19	1391	372	40	280
Boot or shoe.....	G. F. Cushman.....	374,890	Dec. 13	1027	269	41	1256
Boot or shoe.....	A. Haven.....	366,095	July 5	468	127	40	88
Boot or shoe.....	F. J. Hastings and H. S. Littlefield.....	370,783	Oct. 4	48	12	41	12
Boot or shoe.....	C. F. Martine.....	369,068	Aug. 30	2495	662	40	962
Boot or shoe.....	J. McComber.....	371,339	Oct. 11	854	219	41	175
Boot or shoe.....	B. A. Pillow.....	367,118	July 26	1868	506	40	377
Boot or shoe.....	J. P. Shea and W. Brown.....	361,725	Apr. 26	1913	496	39	380
Boot or shoe.....	G. Valiant.....	364,146	May 31	2960	768 769	39	1062
Boot or shoe.....	G. Valiant.....	364,147	May 31	2961	769	39	1062
Boot or shoe.....	M. Wise.....	375,663	Dec. 27	2129	553	41	1482
Boot or shoe burnishing machine.....	F. P. Baldwin.....	361,805	Apr. 26	2029	527	39	401
Boot or shoe burnishing machine.....	F. W. Hood.....	371,941	Oct. 25	1729	447	41	367
Boot or shoe burnishing machine.....	J. O. Lee.....	362,020	Apr. 26	2351	613	39	459
Boot or shoe burnishing machine.....	E. M. Parkhurst.....	363,537	May 24	2083	540	39	889
Boot or shoe burnishing machine.....	S. Ross, Jr.....	368,853	Aug. 23	2183	579	40	892
Boot or shoe button-hole piece.....	R. W. Thomson and E. M. Phelps.....	375,581	Dec. 27	2011	522	41	1461
Boot or shoe counter forming machine.....	F. A. Cushman.....	371,491	Oct. 11	1057	276	41	215
Boot or shoe counter-stiffeners. Machine for and } method of forming.....	J. M. Watson.....	364,788	June 14	845	221 222	39	1253
Boot or shoe heel.....	J. T. Gray.....	358,194	Feb. 22	2115	558	38	837
Boot or shoe heel.....	H. A. Henderson.....	370,621	Sept. 27	1912	507	40	1416
Boot or shoe heel.....	J. L. Joyce.....	366,845	July 19	1510	404	40	301
Boot or shoe heel.....	P. Linden.....	372,688	Nov. 8	600	163	41	594
Boot or shoe heel.....	A. A. Marquette.....	368,676	Aug. 23	1929	513	40	845
Boot or shoe heel.....	I. Sommerfeld.....	372,435	Nov. 1	224	63	41	512
Boot or shoe heel.....	P. Stucker and C. Neu.....	355,483	Jan. 4	249	66	38	50
Boot or shoe heel trimming machine.....	C. H. Trask.....	357,739	Feb. 15	1465	383	38	712
Boot or shoe heels. Machine for forming.....	E. Jones.....	374,536	Dec. 6	525	137	41	1147
Boot or shoe holding jack.....	C. J. Addy.....	362,347	May 3	383	106	39	549
Boot or shoe insole.....	G. D. Adams and W. L. Barrell.....	371,657	Oct. 18	1298	336	41	272
Boot or shoe insole.....	J. M. Dame.....	373,964	Nov. 29	2529	680	41	980
Boot or shoe insole.....	W. H. Russell.....	357,942	Feb. 15	1740	454	38	763
Boot or shoe jack.....	F. W. Stone.....	372,279	Oct. 25	2237	574	41	460
Boot or shoe lasting machine.....	G. W. Copeland, J. E. Crisp, and } E. F. Grandy.....	365,505	June 28	1899	494 495 496	39	1471
Boot or shoe nailing machine.....	H. Dunham.....	356,107	Jan. 18	1173	311	38	241
Boot or shoe packs. Crimper for.....	C. Gerhard.....	364,010	May 31	2766	717	39	1025
Boot or shoe shank stiffener.....	J. M. Watson.....	372,728	Nov. 8	659	181	41	604
Boot or shoe. Seamless knitted.....	M. V. Beiger and A. Eberhart.....	367,333	July 26	2186	588	40	437
Boot or shoe sole.....	A. Deubert.....	369,323	Sept. 6	21	6	40	1039
Boot or shoe sole buffing machine.....	C. H. Trask.....	364,688	June 14	670	179	39	1223
Boot or shoe sole edge trimming machine.....	V. Beauregard.....	367,264	July 26	2084	563	40	418
Boot or shoe soles. Device for inking the edges of.....	W. W. Crooker.....	367,895	Aug. 9	815	219	40	615
Boot or shoe soles. Machine for beating out.....	J. Pray.....	367,927	Aug. 9	860	234	40	624
Boot or shoe soles. Marking-tool for.....	E. C. Holden.....	364,649	June 14	619	167	39	1213
Boot or shoe strap.....	J. L. Rousmaniere.....	367,850	Aug. 9	750	202	40	602
Boot or shoe strap.....	J. Walden.....	368,313	Aug. 16	1418	375	40	737
Boot or shoe stretcher.....	L. Nottingham.....	357,131	Feb. 1	579	149	38	527
Boot or shoe stretcher.....	L. Nottingham.....	374,805	Dec. 13	909	238	41	1233
Boot or shoe tip.....	W. H. Huntington.....	356,471	Jan. 25	1681	439	38	344
Boot or shoe tree.....	S. Mawhinney.....	374,311	Dec. 6	203	54	41	1084
Boot or shoe uppers. Mechanism for cleaning.....	L. B. and F. B. Newhall.....	368,105	Aug. 9	1110	294 295	40	670
Boot or shoe work. Nailing-machine for.....	O. E. Seymour.....	364,776	June 14	820	216	39	1248
Boot. Rubber.....	J. F. Shaw.....	371,221	Oct. 11	693	178	41	145
Boot-strap.....	F. R. Hamilton.....	361,061	Apr. 12	959	242	39	182
Boot-top and manufacture of the same.....	J. T. Gray.....	369,240	Aug. 30	2709	720	40	1005
Boot-upper.....	O. Johnson.....	365,601	June 28	2059	537	39	1503
Boot. Water-proof.....	L. Slessinger.....	370,498	Sept. 27	1724	457	40	1380
Boots and shoes. Machine for molding counters or } stiffeners for.....	G. A. Knox.....	375,494	Dec. 27	1881	492	41	1436
Boots and shoes. Machinery for making metallic } shanks for.....	C. T. Stetson.....	356,735	Jan. 25	2050	538	38	413
Boots and shoes. Manufacture of.....	G. B. Siegenthaler.....	366,743	July 19	1370	367	40	276
Boots and shoes. Manufacture of.....	A. G. Wood and C. S. Brown.....	374,029	Nov. 29	2615	702	41	998
Boots and shoes. Seam-rubber for.....	C. H. Carr.....	374,655	Dec. 13	695	183	41	1191
Boots. Button-hole piece for button.....	G. S. Hill.....	360,590	Apr. 5	290	70	39	55
Boots. Machine for buttoning.....	J. Keith.....	360,021	Mar. 29	2407	609 610	38	1383
Boots. Machine for making metallic shanks for.....	C. T. Stetson.....	356,734	Jan. 25	2049	537 538	38	413
Boots, &c. Machine for rounding or beveling the } insoles of.....	E. Rainaud.....	358,788	Mar. 1	536	131 132	38	1003
Boots. Mechanism for the manufacture of rubber.....	C. F. Parker.....	360,242	Mar. 29	2763	701	38	1448
Boots or shoes and manufacturing the same. Heel- } stiffener for.....	S. Moore.....	367,430	Aug. 2	100	26	40	470
Boots or shoes. Attaching heels to.....	M. V. B. Ethridge.....	364,755	June 14	787	208	39	1243
Boots or shoes. Attaching heels to the soles of.....	F. F. Raymond, 2d.....	355,556	Jan. 4	340	91	38	69
Boots or shoes. Button-hole piece for.....	J. Reece.....	366,619	Aug. 23	1847	494	40	829

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Boots or shoes. Button-hole strip for.....	G. Valiant.....	364,148	May 31	2962	{ 769 770 }	{ 39 }	1062
Boots or shoes. Button-hole strip for.....	G. Valiant.....	364,149	May 31	2964	770	39	1063
Boots or shoes. Cutter-head for.....	W. Manley.....	374,416	Dec. 6	346	90	41	1112
Boots or shoes. Detachable sole for.....	J. Wüst.....	375,718	Dec. 27	2209	575	41	1497
Boots or shoes. Device for holding.....	W. W. Watts.....	374,023	Nov. 29	2608	700	41	997
Boots or shoes. Device for inking the sole-edges of.....	J. Coupal and R. Stephenson.....	371,434	Oct. 11	992	258	41	202
Boots or shoes. Device for inking the soles of.....	W. W. Crooker.....	370,452	Sept. 27	1649	440	40	1367
Boots or shoes. Edge-plane for trimming the sole-edges of.....	A. J. Avery.....	363,107	May 17	1480	391	39	763
Boots or shoes. Fastener for rubber.....	J. H. Thompson and O. H. Curtis.....	360,491	Apr. 5	138	34	39	26
Boots or shoes. Heel-fastener for.....	J. L. Joyce.....	366,844	July 19	1508	{ 403 404 }	{ 40 }	301
Boots or shoes. Heel-plate for.....	F. E. Hollenbeck.....	357,386	Feb. 8	929	244	38	603
Boots or shoes. Inner sole for.....	C. W. King.....	358,860	Mar. 8	664	166	38	1031
Boots or shoes. Inner sole for.....	S. F. Whittlesey.....	355,428	Jan. 4	176	47	38	36
Boots or shoes. Lasting.....	A. F. Smith.....	371,713	Oct. 18	1392	359	41	291
Boots or shoes. Machine for finishing the sole-edges and cleaning the uppers of.....	C. F. Leighton.....	368,537	Aug. 16	1739	463	40	798
Boots or shoes. Machine for lasting.....	F. Chase.....	364,088	May 31	2867	{ 743 744 }	{ 39 }	1045
Boots or shoes. Machine for marking vamps for.....	A. F. Preston.....	360,325	Mar. 29	2875	732	38	1469
Boots or shoes. Making.....	A. Seaver.....	360,822	Apr. 5	599	158	39	113
Boots or shoes. Making rubber.....	G. Watkinson.....	360,635	Apr. 5	346	87	39	66
Boots or shoes. Manufacture of.....	C. K. Bradford.....	363,946	May 31	2670	693	39	1005
Boots or shoes. Manufacture of.....	W. Damer.....	361,269	Apr. 19	1270	{ 324 325 326 }	{ 39 }	253
Boots or shoes. Manufacture of.....	A. F. Smith.....	373,694	Nov. 22	2145	574	41	899
Boots or shoes. Manufacture of.....	M. Wise.....	366,142	July 5	533	144	40	101
Boots or shoes. Metal-plated rubber heel for.....	F. D. Hayward.....	368,584	Aug. 23	1803	480	40	820
Boots or shoes. Mold for molding heels for.....	G. R. Coburn.....	364,217	June 7	26	8	39	1093
Boots or shoes. Process of and means for molding heel-stiffeners for.....	G. A. Knox.....	365,608	June 28	2066	{ 538 539 }	{ 39 }	1505
Boots or shoes. Seamless upper for.....	T. Balcom and W. H. Allen, Jr.....	361,478	Apr. 19	1552	402	39	305
Boots or shoes. Shank-burnisher for.....	J. J. Fitzgibbon.....	370,053	Sept. 20	1073	283	40	1251
Boots or shoes. Shank creasing and coloring machine for.....	P. P. Sherry.....	355,566	Jan. 4	354	95	38	71
Boots or shoes. Spring-heel for.....	G. C. Buch.....	357,062	Feb. 1	449	119	38	505
Boots or shoes. Shank-stiffener for.....	J. C. Daggett.....	367,505	Aug. 2	224	65	40	495
Boots or shoes. Shank-stiffener for.....	W. Gordon.....	372,140	Oct. 25	2038	522	41	421
Boots or shoes. Sole and heel edge blacker for.....	O. F. Drew.....	363,051	May 17	1401	370	39	748
Boots or shoes. Spring-heel for.....	G. E. Swan.....	370,906	Oct. 4	244	62	41	48
Boots or shoes. Spring heel for.....	G. E. Swan.....	370,907	Oct. 4	245	63	41	48
Boots or shoes. Tool for burnishing the heels of.....	Z. Beaudry.....	367,355	Aug. 2	2	1	40	451
Boots or shoes. Trimming-machine for.....	L. E. Moore.....	360,720	Apr. 5	462	117	39	85
Boots or shoes. Wire fastening for.....	O. E. Seymour.....	364,779	June 14	828	218	39	1250
Boots, shoes, &c. Fastening for.....	T. P. Ryan.....	372,333	Nov. 1	70	21	41	485
Boots, &c. Stretcher for felt or fabric.....	A. Eberhart.....	374,353	Dec. 6	264	70	41	1096
Borer and reamer. Combined.....	J. P. Champion.....	362,934	May 17	1235	328	39	716
Boring bit or drill.....	F. C. Johnson.....	369,248	Aug. 30	2719	723	40	1007
Boring, drilling, driving, and withdrawing screws, &c. Machine for.....	M. C. Henley.....	371,195	Oct. 11	656	168	41	137
Boring-machine.....	C. McNeal.....	359,270	Mar. 15	1212	{ 316 317 }	{ 38 }	1142
Boring-machine.....	F. Schoepfle.....	370,895	Oct. 4	225	57	41	44
Boring-machine. Adjustable.....	G. W. Coonse.....	372,120	Oct. 25	2004	514	41	415
Boring-machine. Automatic.....	J. H. Morrison and C. L. Allen.....	361,832	Apr. 26	2069	538	39	408
Boring machine. Wood.....	J. B. Higdon.....	364,254	June 7	73	21	39	1102
Boring machine. Wood.....	H. Ihlen.....	374,363	Dec. 6	278	74	41	1099
Boring machine. Wood.....	G. Swan.....	375,223	Dec. 20	1524	{ 400 401 }	{ 41 }	1359
Boring, shaping, and sawing machine.....	J. M. Nash.....	355,550	Jan. 4	332	{ 88 89 90 }	{ 38 }	67
Boring-tool.....	H. M. Knight.....	356,138	Jan. 18	1217	323	38	249
Boring-tool.....	C. A. Simmons.....	374,432	Dec. 6	370	97	41	1116
Boring tool. Metal.....	G. W. Tower.....	359,296	Mar. 15	1250	324	38	1148
Boring wood or metal. Machine for.....	H. F. Bundy.....	356,098	Jan. 18	1159	307	38	238
Bosom-board.....	M. F. McIntyre.....	364,361	June 7	210	58	39	1128
Bosom. Supplemental.....	R. Butterworth.....	371,668	Oct. 18	1314	341	41	275
Bottle.....	J. Canan.....	364,477	June 7	384	104	39	1160
Bottle.....	P. England.....	357,073	Feb. 1	467	124	38	509
Bottle.....	H. I. Leith.....	360,102	Mar. 29	2545	648	38	1408
Bottle.....	H. I. Leith.....	368,345	Aug. 16	1458	389	40	746
Bottle.....	E. C. Willis.....	358,319	Feb. 22	2276	601	38	868
Bottle and label protector.....	A. Grisi.....	372,464	Nov. 1	269	74	41	521
Bottle and stopper. Combined.....	G. A. Fullerton.....	375,347	Dec. 27	1690	444	41	1399
Bottle attachment.....	J. F. H. Sugg.....	359,412	Mar. 15	1426	365	38	1181
Bottle-cap.....	A. L. Bernardin.....	373,796	Nov. 22	2287	612	41	925
Bottle-cap.....	P. H. Brink and J. B. Ayers.....	364,334	June 7	172	48	39	1121
Bottle-caps. Machine for clinching.....	A. L. Bernardin.....	374,517	Dec. 6	493	129	41	1141
Bottle-caps. Machine for forming sheet-metal.....	W. H. Northall.....	374,553	Dec. 6	558	{ 146 147 }	{ 41 }	1154
Bottle-case.....	E. A. Galbraith.....	362,375	May 3	425	118	39	557
Bottle-case.....	H. Palmer.....	365,851	July 5	130	35	40	27
Bottle-casing.....	W. Godfrey.....	365,513	June 28	1925	501	39	1477
Bottle. Electric smelling.....	L. B. Fuller.....	367,341	July 26	2200	591	40	439
Bottle filler and sirup-measure combined. Soda-water.....	P. Palm.....	360,901	Apr. 12	719	190	39	140
Bottle-filling machine.....	H. E. Schrader.....	358,575	Mar. 1	244	57	38	949
Bottle for blacking, mucilage, &c.....	H. A. Bartlett.....	372,737	Nov. 8	670	183	41	606
Bottle for liquid blacking. Metal.....	S. M. Bixby.....	368,318	Aug. 16	1425	377	40	738
Bottle-heads. Tool for finishing.....	C. L. Morehouse.....	361,774	Apr. 26	1983	517	39	392
Bottle-holder.....	A. F. Jackson.....	367,208	July 26	1990	538	40	401
Bottle-holder.....	C. A. Tatum.....	356,900	Feb. 1	223	62	38	462

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Bottle-holding attachment for stopper-pullers	J. J. Monahan	361,640	Apr. 19	1785	462	39	350
Bottle. Internally-stoppered	D. Rylands	363,768	May 24	2414	626	39	953
Bottle-jacket	H. Lightwardt, Jr.	370,268	Sept. 20	1375	369	40	1309
Bottle-mouths. Tool for forming grooves in	B. Stoner	369,890	Sept. 13	812	216	40	1197
Bottle. Mucilage or liquid-glue	W. H. Rodden	362,857	May 10	1119	302	39	688
Bottle. Nursing	R. C. Baker	358,008	Feb. 22	1835	485	38	787
Bottle. Nursing	M. Vessel	371,005	Oct. 4	403	100	41	80
Bottle. Nursing	C. B. Wheelock	357,439	Feb. 8	996	262	38	615
Bottle-packing	C. B. Heston	373,019	Nov. 8	1114	296	41	683
Bottle show-stand	F. F. Cummings	375,413	Dec. 27	1773	464	41	1415
Bottle. Siphon	C. De Quillfeldt	361,400	Apr. 19	1448	374	39	285
Bottle-stopper	W. Beardsley	365,961	July 5	291	77	40	56
Bottle-stopper	H. P. Brooks	362,245	May 3	254	72	39	522
Bottle-stopper	M. S. Cahill	370,045	Sept. 20	1061	281	40	1250
Bottle-stopper	C. De Quillfeldt	355,642	Jan. 4	470	125	38	93
Bottle-stopper	C. De Quillfeldt	357,909	Feb. 15	1695	441	38	755
Bottle-stopper	G. A. Fullerton	373,973	Nov. 29	2542	683	41	983
Bottle-stopper	G. A. Gessner	368,712	Aug. 23	1985	527	40	854
Bottle-stopper	G. A. Gessner	369,332	Sept. 6	30	9	40	1041
Bottle-stopper	D. S. Hitchcock	361,285	Apr. 19	1291	331	39	257
Bottle-stopper	L. S. Hoyt	361,417	Apr. 19	1472	381	39	290
Bottle-stopper	F. Jacob	371,325	Oct. 11	836	214	41	171
Bottle-stopper	H. E. G. Luyties	366,732	July 19	1356	363	40	273
Bottle-stopper	J. McInnes	374,263	Dec. 6	128	33	41	1071
Bottle-stopper	C. L. Morehouse	368,228	Aug. 16	1305	344	40	714
Bottle-stopper	C. L. Morehouse	368,958	Aug. 30	2336	621	40	931
Bottle-stopper	C. L. Morehouse	368,959	Aug. 30	2338	621	40	931
Bottle-stopper	A. H. Peterson	360,467	Apr. 5	100	25	39	20
Bottle-stopper	W. H. Redington	360,246	Mar. 29	2768	703	38	1449
Bottle-stopper	M. O. Rehfuß	368,113	Aug. 9	1120	297	40	672
Bottle-stopper	E. H. Rice	361,547	Apr. 19	1639	425	39	323
Bottle-stopper	N. Schwab	360,055	Mar. 29	2463	627	38	1393
Bottle-stopper	T. Sutcliffe	356,176	Jan. 18	1265	334	38	257
Bottle-stopper	F. Thorn	365,554	June 28	1984	517	39	1489
Bottle-stopper	G. W. Tucker and W. L. Roorbach ..	367,254	July 26	2072	560	40	416
Bottle-stopper	G. W. Tucker and W. L. Roorbach. (Reissue.)	10,881	Nov. 15	1737	458	41	809
Bottle-stopper	H. C. Walter	370,291	Sept. 20	1405	378	40	1314
Bottle-stopper	W. Werts	365,286	June 21	1574	409	39	1397
Bottle-stopper	E. Woodham and P. Ockenden	359,373	Mar. 15	1358	351	38	1169
Bottle-stopper cover	T. C. Bunting	372,892	Nov. 8	925	249	41	650
Bottle-stopper extractor	C. De Quillfeldt	369,046	Aug. 30	2460	652	40	955
Bottle-stopping mechanism	G. A. Gessner	368,711	Aug. 23	1984	527	40	854
Bottle-top	I. Pomeroy	373,849	Nov. 29	2366	636	41	949
Bottle-washer	J. B. Coolehan	372,205	Oct. 25	2129	547	41	439
Bottle-washing machine	N. J. Simonds	373,315	Nov. 15	1563	414	41	776
Bottle-wrapper	E. Sherring	368,978	Aug. 30	2363	628	40	936
Bottles. Alarm-tag for druggists'	E. K. Barker	371,661	Oct. 18	1304	338	41	273
Bottles and jars. Safety attachment for druggists' ..	S. W. Lane	367,642	Aug. 2	421	118	40	531
Bottles. Apparatus for capsulating	J. A. Natermann	356,883	Feb. 1	202	56	38	459
Bottles. Box for	J. F. Sleeper	363,690	May 24	2308	599	39	932
Bottles. Machine for capsuling	E. Gumbrecht	357,315	Feb. 8	831	217	38	584
Bottles. Machine for cleaning	S. L. Gillett	370,693	Sept. 27	2019	537	40	1435
Bottles. Machine for wiring corks in	N. B. Abbott	369,763	Sept. 13	613	{ 165 166 }	{ 40 40 }	{ 1159 1159 }
Bottles. Mold for blowing turned	W. F. Modes	364,840	June 14	922	244	39	1268
Bottles, &c. Safety attachment for	V. Doriot	358,434	Mar. 1	13	4	38	905
Bottles. Sheet-metal casing for	J. Jaeger	364,417	June 7	294	81	39	1144
Bottles. Wiring corks in	B. Adriance	364,202	June 7	1	1, 2	39	1089
Bottling aerated liquids. Machine for	J. Brown and F. J. Johnston	363,504	May 24	2034	529	39	880
Bottling-gasogene	C. E. Avery	372,248	Oct. 25	2193	563	41	452
Bottling-machines. Automatic pressure-regulator for soda-fountains of	L. Leonhardt	367,645	Aug. 2	425	119	40	532
Bottling-machines. Pressure-indicator for	J. Conner	355,921	Jan. 11	889	232	38	180
Bowling-alley	C. Benso and J. Merkel	367,130	July 26	1889	511	40	381
Bowling-alley	E. Reisky and W. Wolff	359,542	Mar. 15	1622	416	38	1217
Box:							
See Air-box. Loom-shuttle box.							
Alarm-box. Lunch-box.							
Axle-box. Mail-box.							
Banker's safety ex- Match-box.							
press-box. Metal box.							
Berry-box. Miner's combination-box.							
Blacking-box. Miner's safety-box.							
Brick-kiln fire-box. Miter-box.							
Cake and bread box. Music-box.							
Cartridge-box. Musical box.							
Cash-box. Packing-box.							
Cigar-box. Packing and show box.							
Cigarette-box. Paint-box.							
Counter-box. Pitman-box.							
Electric call-box. Post-office signal call-box.							
Fare-box. Sample or exhibition box.							
File-box. Shut-off box.							
Fire-alarm box. Signal-box.							
Fuel-box. Stop or curb box.							
Gutter-box. Stuffing-box.							
Heater-register box. Telephone call-box.							
Jewel and toilet-set Tobacco-box.							
box. Tree-box.							
Journal-box. Wagon-box.							
Knockdown box. Watch-movement box.							
Letter-box. Water-closet service-box.							
Box	J. P. Buckingham	369,688	Sept. 13	522	144	40	1144
Box	W. H. Butler	374,825	Dec. 13	940	245	41	1239

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &.	Vol.	Page.
Box	A. S. Nichols	367,836	Aug. 9	729	197	40	598
Box	A. W. Paris	356,009	Jan. 11	1018	267	38	206
Box	G. W. Smith	370,982	Oct. 4	371	92	41	74
Box	J. W. Sprowles	360,366	Mar. 29	2938	747	38	1479
Box	J. M. Waddill	375,518	Dec. 27	1911	500	41	1443
Box	A. Wuensch	361,662	Apr. 19	1820	471 472	39	356
Box-blank cutter	H. P. Fiske	360,674	Apr. 5	397	101	39	75
Box-board caps. Device for cutting	J. Weber	367,875	Aug. 9	784	211	40	609
Box-clasp	C. Kunze	361,424	Apr. 19	1483	383	39	292
Box-fastener	C. W. Beebler	361,574	Apr. 19	1687	436	39	330
Box-fastener	J. H. Eilmann	361,149	Apr. 12	1104	279	39	209
Box-fastener	A. H. Gaertner	362,831	May 10	1083	293	39	682
Box-fastener	E. Schandeln	361,327	Apr. 19	1347	347	39	267
Box-fastener	E. Schandeln	362,920	May 10	1211	323	39	705
Box-fastener	G. F. Sumner and E. Moser	373,758	Nov. 22	2228	596	41	916
Box-fastening	B. W. Minium	365,401	June 28	1754	454	39	1444
Box fastening. Card-board	J. Geiger	367,970	Aug. 9	929	251	40	636
Box for holding ruffling	A. H. Engel	360,212	Mar. 29	2714	686	38	1438
Box for samples, &c.	O. Hoffstadt	370,059	Sept. 20	1080	285	40	1253
Box or case	C. W. Boman	356,979	Feb. 1	331	88	38	484
Box-joint	L. F. Mergott	372,694	Nov. 8	608	165	41	595
Box-lock	W. Clark	365,048	June 21	1223	323	39	1333
Box-loop	M. L. Hickie	374,068	Nov. 29	2677	720	41	1010
Box-making machine	C. Crawford	363,592	May 24	2149	559 560	39	905
Box-opener	E. M. Cooper and H. E. Doggett	368,516	Aug. 16	1708	456	40	793
Box or tub fastener	J. H. Burt	359,344	Mar. 15	1315	341	38	1160
Box-pile	E. Wheeler	361,197	Apr. 12	1170	295	39	222
Box-strap	S. C. Cary	358,255	Feb. 22	2186	576	38	851
Box-strap	J. K. Chase	367,892	Aug. 9	812	219	40	614
Box-strapping. Metallic	C. H. Dana	374,587	Dec. 13	605	157	41	1172
Box-stuff. Machine for making	T. Sands	355,557	Jan. 4	342	91, 92	38	69
Boxes. Adjustable partition for	S. T. Achor	374,920	Dec. 20	1091	285	41	1277
Boxes. Apparatus for bending and trimming spring	C. O. Wilder	361,340	Apr. 19	1366	351	39	270
Boxes. Device for closing the lids of	J. Cook	374,584	Dec. 13	602	157	41	1172
Boxes, frames, and like structures. Joint for the corners of	W. A. Eddy	369,927	Sept. 13	875	231	40	1208
Boxes. Machine for constructing	J. E. Wakeman and R. L. Crocker	366,538	July 12	1064	289	40	211
Boxes. Machine for pressing	R. H. Hoyt	372,537	Nov. 1	370	100	41	541
Brace:							
See Bicycle-brace. Lightning-rod brace.							
Bit-brace. Rail-brace.							
Carriage-top brace. Ratchet-brace.							
Chair-brace. Shoulder-brace.							
Bracelet	L. W. Dillon	358,339	Feb. 22	2298	606	38	874
Bracelet	T. C. Hudson	365,257	June 21	1535	400	39	1389
Bracelet	T. H. Kremetz	369,452	Sept. 6	196	56	40	1069
Bracelet	C. W. Lord	357,326	Feb. 8	843	220	38	586
Bracelet	A. Williams	363,309	May 17	1746	457	39	816
Bracelet-catch	E. P. Beach	358,720	Mar. 1	447	109	38	987
Bracket:							
See Coffin-bracket. Fire-works bracket.							
Cornice-pole bracket. Folding bracket.							
Curtain-pole bracket. Kitchen-bracket.							
Curtain-rod bracket. Lamp-bracket.							
Dental bracket. Railway-rail bracket.							
Dental-engine bracket. Scaffold-bracket.							
Drawer-bracket. Shelf-bracket.							
Fence-bracket. Siding-bracket.							
Stage or scaffold bracket.							
Bracket	E. S. Hemmenway	364,514	June 7	433	116	39	1170
Bracket	H. P. Kochsmeier	365,690	June 28	2185	570	39	1526
Bracket-hook	O. S. Judd	361,634	Apr. 19	1780	460	39	349
Brackets. Attachment for towel	A. McKanna	368,728	Aug. 23	2013	533	40	859
Braid for binding	M. H. Fouillet-Chevance	363,627	May 24	2217	575	39	915
Braid-trimming	A. S. Ellison	367,339	July 26	2199	590	40	439
Braided trimming	J. W. Thompson and J. W. Gorton	358,233	Feb. 22	2159	570	38	846
Brake:							
See Air-brake. Gin-brake.							
Atmospheric brake. Hoisting-machine brake.							
Automatic brake. Locomotive-brake.							
Axle-brake. Locomotive-driver brake.							
Bicycle-brake. Machine-brake.							
Car-brake. Power-brake.							
Carriage-brake. Railway-brake.							
Cornice-brake. Sewing-machine-motor							
Electro-magnetic brake.							
Electro-mechanical brake.							
Elevator-brake. Wagon-brake.							
Engine-brake.							
Brake	H. Dewey	367,965	Aug. 9	922	249	40	635
Brake	P. Everitt and D. H. W. J. O. Neale	374,786	Dec. 13	881	231	41	1228
Brake and car-starter. Combined	M. G. Hubbard	362,159	May 3	147	43, 44	39	502
Brake apparatus	R. H. Lapage	360,228	Mar. 29	2740	694 695	38	1443
Brake-beam	F. G. Susemihl and W. A. Pungs	369,213	Aug. 30	2675	711	40	998
Brake-beams. Device for setting	J. R. Ide	367,635	Aug. 2	408	113	40	529
Brake-block	W. W. Johnson and P. P. Rickenbacher	361,422	Apr. 19	1481	382	39	291
Brake-block	M. Potter	371,624	Oct. 18	1253	326	41	262
Brake-block	M. Potter	375,383	Dec. 27	1736	456	41	1408

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Brake-block attachment	W. T. Milliken	372,554	Nov. 1	398	107	41	546
Brake-block holder	C. L. Small	355,951	Jan. 11	942	246	38	980
Brake-handle	J. Calmeyer	369,227	Aug. 30	2694	715	40	1002
Brake mechanism. Fluid-pressure automatic	G. Westinghouse, Jr.	360,070	Mar. 29	2490	633	38	1398
Brake saddle and shoe	L. P. Lawrence	372,810	Nov. 8	808	216	41	629
Brake-shoe	J. N. Mileham	357,284	Feb. 8	788	205	38	576
Brake-shoe	J. Pollock	374,427	Dec. 6	365	96	41	1116
Brake-shoe	G. M. Sargent	370,090	Sept. 20	1122	297	40	1261
Brake-shoe	G. M. Sargent	374,272	Dec. 6	137	37	41	1073
Brake-shoe	G. M. Sargent	374,273	Dec. 6	138	37	41	1074
Brake-shoe	F. L. Sheppard	355,477	Jan. 4	241	63	38	49
Brake shoe and head	J. P. Race	369,736	Sept. 13	581	158	40	1154
Brakes. Method of and apparatus for operating pressure or vacuum	H. Hollerith	363,463	May 24	1962	513	39	865
Bran and other articles. Packer for	S. T. Lockwood. (Reissue) ..	10,827	Apr. 19	1826	473	39	357
Bran-cleaning machine	A. Hunter	358,670	Mar. 1	374	89	38	973
Bran-duster	J. B. Allfree	373,327	Nov. 15	1581	{ 418 419 }	{ 41 41 }	{ 780 780 }
Bran-duster	C. M. Gilbert	373,453	Nov. 22	1774	{ 470 471 }	{ 41 41 }	{ 828 828 }
Bran-duster	L. S. Hogeboom	364,927	June 14	1043	272	39	1290
Branding apparatus	C. E. C. Meyer and W. Illig ..	363,160	May 17	1551	409	39	778
Branding or marking animals. Apparatus for	W. Ellinger	356,459	Jan. 25	1665	436	38	341
Brazing-machine	N. H. Roberts	369,077	Aug. 30	2511	666	40	964
Bread	A. Schrader	373,690	Nov. 22	2141	.....	41	898
Bread and vegetable slicer	L. Gathmann	364,641	June 14	612	164	39	1211
Bread. Making	J. D. Cox	365,331	June 21	1637	427	39	1409
Bread-raiser	C. J. Walthall	366,050	July 5	414	112	40	78
Bread raising and baking apparatus	J. M. McClave	366,968	July 19	1662	446	40	331
Bread-sponge-raising device	J. Conway	369,776	Sept. 13	632	171	40	1163
Breast-form	J. L. Wells	358,711	Mar. 1	435	106	38	985
Breastpin	H. P. Pruim	370,411	Sept. 27	1585	424	40	1356
Breastpins. Pin-tongue for	J. E. Hasler and A. F. Haberl ..	359,320	Mar. 15	1280	332	38	1154
Breast-strap slide	A. G. Schlener	356,163	Jan. 18	1250	330	38	254
Bretzel and cracker manufacturing apparatus	D. F. Stauffer	366,041	July 5	403	{ 109 110 }	{ 40 40 }	{ 76 76 }
Bretzel and cracker sizing and salting machine	D. R. and W. A. King	358,358	Feb. 22	2328	618	38	878
Brewing beer. Apparatus for	J. Irlbacker	362,086	May 3	49	14, 15	39	432
Brick. Composition of	W. Rennyson	366,609	July 12	1181	.....	40	233
Brick-drier. Portable	M. Carroll	368,454	Aug. 16	1623	434	40	777
Brick. Dry-wall	E. A. Adams	372,007	Oct. 25	1819	471	41	383
Brick-drying kiln and car to be used therein	J. R. Kemp	374,540	Dec. 6	536	140	41	1149
Brick for paving	C. J. Dobbs	374,118	Nov. 29	2751	739	41	1024
Brick for stables, &c. Paving	C. G. Tebbutt	360,928	Apr. 12	755	198	39	147
Brick-handler	G. W. Soule	370,565	Sept. 27	1819	484	40	1398
Brick-kiln	S. P. Crafts	355,387	Jan. 4	126	34	38	26
Brick-kiln	C. H. Frost	364,240	June 7	57	17	39	1099
Brick-kiln	W. E. and W. Hinchliff	356,536	Jan. 25	1768	460	38	360
Brick-kiln	M. Kehoe and A. Zilker	366,402	July 12	885	238	40	175
Brick-kiln	L. Manning	368,775	Aug. 23	2074	549	40	871
Brick-kiln	J. D. Stanley	361,192	Apr. 12	1165	294	39	221
Brick-kiln fire-box	J. W. Read	365,632	June 28	2096	546	39	1510
Brick-machine	W. Burkman	364,395	June 7	255	72, 73	39	1137
Brick-machine	C. L. Carman	374,938	Dec. 20	1125	{ 294 295 }	{ 41 41 }	{ 1282 1282 }
Brick-machine	C. Chambers, Jr	362,204	May 3	196	{ 58 59 60 }	{ 39 39 39 }	{ 512 512 512 }
Brick-machine	S. P. Crafts	367,369	Aug. 2	21	5	40	455
Brick-machine	J. Creager	364,907	June 14	1015	266	39	1285
Brick-machine	W. T. Duvall	373,134	Nov. 15	1284	{ 341 342 }	{ 41 41 }	{ 726 726 }
Brick-machine	C. L. Emens	360,569	Apr. 5	259	64	39	50
Brick-machine	J. H. Flanagan	355,690	Jan. 11	541	142	38	115
Brick-machine	N. Kirchner	368,341	Aug. 16	1454	387	40	745
Brick-machine	J. E. Lesneur	355,876	Jan. 11	820	{ 214 215 }	{ 38 38 }	{ 166 166 }
Brick-machine	P. B. Mathiason	369,118	Aug. 30	2565	{ 681 682 }	{ 40 40 }	{ 975 975 }
Brick-machine	S. E. McGregory	362,102	May 3	69	{ 20 21 22 23 }	{ 39 39 39 39 }	{ 486 486 486 486 }
Brick-machine	J. W. and R. C. Penfield	365,627	June 28	2088	545	39	1509
Brick-machine	A. D. Thomas	375,660	Dec. 27	2125	552	41	1481
Brick-machine	B. J. Wilson	359,655	Mar. 22	1816	{ 461 462 }	{ 38 38 }	{ 1269 1269 }
Brick-machine	D. Woodbury	370,173	Sept. 20	1251	{ 332 333 }	{ 40 40 }	{ 1285 1285 }
Brick-machine	W. J. Woolley	361,038	Apr. 12	931	{ 235 236 }	{ 39 39 }	{ 177 177 }
Brick-machines. Cut-off-wire cleaner for	S. W. Lasor	371,267	Oct. 11	757	194	41	156
Brick-machines. Device for securing tempering-knives in pugging-shafts of	J. H. Chambers	356,571	Jan. 25	1826	478	38	371
Brick-machines. Granulating and feeding device for	C. L. Emens	360,568	Apr. 5	257	64	39	50
Brick-machines. Strike-sander for	H. C. Hill	356,585	Jan. 25	1842	483	38	374
Brick-mold-sanding machine	H. and G. Martin	359,267	Mar. 15	1208	315	38	1141
Brick-mold-sanding machine	H. and G. Martin	370,635	Sept. 27	1929	511	40	1419
Brick-molds. Machine for sanding	A. C., S., and A. H. Newton ..	372,698	Nov. 8	611	{ 166 167 }	{ 41 41 }	{ 596 596 }
Brick-molding machine	W. Partridge	368,487	Aug. 16	1666	444	40	785
Brick or tile machine	J. I. Knapp, J. C. McKenzie, and } W. Humphrey. }	364,826	June 14	897	{ 236 237 }	{ 39 39 }	{ 1263 1263 }
Brick or tile machines. Cut-off and delivery table for	J. Fergusson	375,319	Dec. 20	1650	433	41	1383

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Brick. Paving.....	J. Scott.....	361,329	Apr. 19	1349	.....	39	267
Brick-yard shed.....	J. C. Shumacher.....	358,076	Feb. 22	1936	511	38	805
Bricks. Annular kiln for manufacturing.....	O. Hertrampf.....	365,997	July 5	337	89, 90	40	64
Bricks, &c. Composition for the manufacture of.....	J. P. Perkins.....	364,854	June 14	939	.....	39	1271
Bricks, &c. Machine for pressing and molding.....	R. Stanley.....	361,464	Apr. 19	1533	397	39	301
Bricks. Manufacturing.....	H. W. Kasten.....	370,948	Oct. 4	312	.....	41	62
Bricks or tiles. Machine for cutting.....	E. M. Burr and J. W. Stipes.....	368,929	Aug. 30	2298	{ 610 } 611	40	924
Bricks, tiles, &c. Composition for.....	M. Marx.....	362,759	May 10	999	.....	39	665
Bridge.....	T. Buckley.....	374,887	Dec. 13	1024	{ 267 } 268	41	1255
Bridge.....	G. W. Coultas.....	365,970	July 5	303	80	40	57
Bridge.....	C. F. T. Kandeler.....	356,283	Jan. 18	1410	372	38	285
Bridge.....	H. Knudson.....	356,407	Jan. 18	1589	418	38	318
Bridge.....	J. Mitchell.....	368,483	Aug. 16	1660	443	40	784
Bridge.....	C. W. Sherwood.....	363,970	May 31	2718	704	39	1015
Bridge. Arched.....	P. Britvich.....	371,029	Oct. 4	428	107	41	85
Bridge fender. Swinging.....	F. G. White.....	366,053	July 5	418	113	40	79
Bridge-gate.....	C. Fisher.....	368,524	Aug. 16	1717	458	40	795
Bridge-gate.....	J. S. Philip.....	363,257	May 17	1676	439	39	803
Bridge gate. Draw.....	L. Fracher and B. R. Hoyt.....	374,356	Dec. 6	272	72, 73	41	1098
Bridge gate. Draw.....	F. Gerard.....	368,666	Aug. 23	1914	509	40	841
Bridge gate. Draw.....	G. A. Johnson.....	365,132	June 21	1358	359	39	1356
Bridge gate. Swing.....	C. Munsell.....	356,076	Jan. 11	1116	295	38	224
Bridge gate. Swing.....	C. L. Prindle.....	360,911	Apr. 12	732	{ 192 } 193	39	143
Bridge gate. Swing.....	M. Wheeler.....	370,669	Sept. 27	1975	523	40	1427
Bridge gate. Swinging.....	C. K. Cordrey.....	373,130	Nov. 15	1279	340	41	725
Bridge gate. Swinging.....	J. Svacina and J. Radl.....	357,796	Feb. 15	1546	403	38	727
Bridge gate. Swinging.....	C. Von der Mühlen.....	374,435	Dec. 6	376	98	41	1117
Bridge-guard.....	W. C. Newman.....	370,403	Sept. 27	1574	421	40	1354
Bridge-guard.....	C. C. Tozier.....	374,882	Dec. 13	1017	266	41	1253
Bridge. Swinging.....	R. W. Smith.....	357,638	Feb. 15	1310	{ 344 } 345	38	684
Bridge. Truss suspension.....	W. H. Haynes.....	360,347	Mar. 29	2907	740	38	1475
Bridge-wall.....	A. Snell.....	369,564	Sept. 6	347	96	40	1100
Bridges. Automatic signal for draw.....	L. J. Johnston.....	365,818	July 5	80	23	40	17
Bridges. Composite pier for.....	A. Borneman.....	360,273	Mar. 29	2811	714	38	1457
Bridges. Gate for pivot.....	J. H. Quackenbush.....	359,742	Mar. 22	1944	493	38	1292
Bridges. Operating switches and signals for draw.....	H. and C. R. Johnson.....	361,420	Apr. 19	1477	{ 381 } 382	39	291
Bridges. Operating switches, signals, &c., for draw.....	C. R. Johnson.....	361,419	Apr. 19	1475	381	39	290
Bridges. Submerged bracing for pile.....	H. M. Carpenter and J. Watson.....	362,144	May 3	126	37	39	497
Bridle.....	V. C. Collet.....	359,060	Mar. 8	938	239	38	1082
Bridle.....	J. K. Hotze.....	357,008	Feb. 1	371	98, 99	38	491
Bridle.....	J. A. Hunter.....	366,108	July 5	483	131	40	91
Bridle.....	E. McEvers.....	368,601	Aug. 23	1822	485	40	824
Bridle.....	C. K. Miltimore.....	375,179	Dec. 20	1468	384	41	1347
Bridle.....	B. S. Seaman.....	357,341	Feb. 8	861	226	38	590
Bridle.....	M. Stapleton.....	356,668	Jan. 25	1961	515	38	397
Bridle.....	J. T. Sutton and G. M. Terry.....	362,591	May 10	741	205	39	618
Bridle.....	M. E. Zeller.....	360,193	Mar. 29	2692	680	38	1435
Bridle-bit.....	H. Baldrige.....	365,958	July 5	289	76, 77	40	55
Bridle-bit.....	A. Buermann.....	356,918	Feb. 1	245	67	38	466
Bridle-bit.....	L. F. Dean.....	374,352	Dec. 6	263	70	41	1096
Bridle-bit.....	C. E. Heinze.....	360,296	Mar. 29	2843	723	38	1464
Bridle-bit.....	C. M. Huckins.....	356,043	Jan. 11	1068	281	38	215
Bridle-bit.....	A. S. Johnston.....	356,942	Feb. 1	275	76	38	472
Bridle-bit.....	J. A. Manning.....	368,776	Aug. 23	2075	550	40	871
Bridle-bit.....	F. Monier.....	357,683	Feb. 15	1379	362	38	696
Bridle-bit.....	J. L. Murphy.....	357,497	Feb. 8	1080	285	38	632
Bridle-bit.....	H. Pfändner.....	356,546	Jan. 25	1784	465	38	363
Bridle-bit.....	H. T. Richmond.....	365,151	June 21	1383	365	39	1361
Bridle-bit.....	C. H. Smith.....	374,852	Dec. 13	972	254	41	1245
Bridle-bit.....	N. E. Springsteen.....	371,106	Oct. 4	533	136	41	105
Bridle-bit.....	J. B. Williams and A. C. Tanner.....	369,490	Sept. 6	239	68	40	1079
Bridle-bit attachment.....	I. N. Lilly.....	367,416	Aug. 2	82	22	40	467
Bridle-blind.....	W. W. Ross.....	369,127	Aug. 30	2574	684	40	977
Bridle-blinder.....	A. N. Woolston.....	373,762	Nov. 22	2234	598	41	917
Bridle check-piece.....	C. Russwurm.....	373,097	Nov. 15	1227	328	41	716
Bridle-winker stay.....	F. S. Ryan and E. B. Knapp.....	369,367	Sept. 6	84	26	40	1050
Bridles. Blinder attachment for.....	C. H. Adams.....	368,365	Aug. 16	1486	396	40	751
Bridles. Checkrein-carrier and blinder-stay for.....	F. Schenkenberg.....	368,244	Aug. 16	1325	349	40	718
Bridles. Crown-piece loop and clasp for.....	E. C. Richards.....	366,610	July 12	1181	316	40	233
Bridles or halters. Crown-piece for.....	D. T. Chambers.....	358,541	Mar. 1	191	45	38	938
Bridles. Short-stop blinder for.....	A. P. R. Hanks.....	366,313	July 12	772	{ 208 } 209	40	154
Briquettes. Manufacture of.....	J. J. Saltery.....	374,560	Dec. 6	567	.....	41	1156
Broach.....	F. W. Gesswein.....	363,059	May 17	1412	373	39	750
Broiler.....	J. Battis.....	362,483	May 10	586	165	39	592
Broiler.....	T. Johnson and W. Brandon.....	366,960	July 19	1652	443	40	329
Broiler.....	W. C. North.....	366,679	July 19	1285	343	40	260
Broiler.....	A. M. Throckmorton.....	364,612	June 7	568	153	39	1195
Broiler or toaster. Reversible.....	A. A. Waterhouse.....	364,323	June 7	157	44	39	1118
Broiling, roasting, &c. Apparatus for.....	E. P. Houston.....	363,519	May 24	2053	534	39	884
Bromine and iodine from bittern. Extracting.....	F. C. Phillips.....	356,292	Jan. 18	1426	.....	38	288
Brooch.....	J. and T. J. Porte.....	363,761	May 24	2405	624	39	951
Brooches, &c. Pin attachment for.....	O. G. Fisher.....	362,264	May 3	274	76	39	526
Brooch-pin.....	J. H. Purdy.....	373,482	Nov. 22	1827	486	41	838
Brooder for rearing young chickens.....	J. M. Bodge.....	375,692	Dec. 27	2173	565	41	1489
Broom.....	D. Block.....	362,056	May 3	8	3	39	474
Broom.....	J. F. Parrish.....	366,682	July 19	1288	344	40	261
Broom.....	L. Pelton.....	368,850	Aug. 23	2180	578	40	892
Broom-bridle.....	W. F. George.....	372,259	Oct. 25	2211	566	41	455

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Broom-clamp.....	W. H. Putnam.....	373,785	Nov. 22	2270	608	41	922
Broom-corn. Machine for cutting.....	G. E. Burkholder.....	367,957	Aug. 9	909	246	40	632
Broom-hanger.....	R. D. Dow.....	365,802	July 5	63	18	40	14
Broom-holder.....	A. Finks.....	361,153	Apr. 12	1109	281	39	210
Broom-holder.....	C. W. Love.....	373,780	Nov. 22	2264	607	41	921
Broom holder. Brush.....	W. J. Lynch.....	363,752	May 24	2394	621	39	949
Broom holder. Whisk.....	J. Wright.....	372,835	Nov. 8	841	224	41	634
Broom-holding rack.....	G. W. Altman and P. K. Meech.....	357,057	Feb. 1	444	118	38	504
Broom or mop holder.....	W. Craine.....	369,318	Sept. 6	18	5	40	1038
Broom-rack.....	D. M. Kilmer.....	374,794	Dec. 13	892	234	41	1230
Brooms. Manufacture of whisk.....	E. I. Miller.....	374,902	Dec. 13	1051	275	41	1261
Brush.....	J. F. Bartlett.....	362,351	May 3	386	107	39	549
Brush.....	O. Fish.....	367,031	July 26	1743	470	40	354
Brush.....	O. Fish.....	367,032	July 26	1745	470	40	354
Brush.....	H. E. Fowler.....	359,250	Mar. 15	1191	310	38	1137
Brush.....	H. E. Fowler.....	369,985	Sept. 13	962	254	40	1224
Brush.....	C. Orther.....	366,790	July 19	1432	383	40	287
Brush.....	C. E. Thompson.....	370,571	Sept. 27	1828	487	40	1399
Brush.....	J. A. Williams.....	360,190	Mar. 29	2687	679	38	1434
Brush and blacking-box. Combined blacking.....	G. W. Peck.....	374,696	Dec. 13	753	197	41	1203
Brush attachment. Scrub.....	J. S. Nowotny.....	371,515	Oct. 11	1101	287	41	224
Brush-band.....	S. A. Verbryck.....	370,717	Sept. 27	2055	545	40	1442
Brush. Blacking.....	D. J. Bigelow.....	361,393	Apr. 19	1441	372	39	283
Brush. Blacking.....	A. W. Brown.....	375,336	Dec. 27	1676	440	41	1396
Brush. Blacking.....	W. England.....	367,379	Aug. 2	31	8	40	457
Brush, &c. Cleaning.....	H. P. Nichols.....	358,875	Mar. 8	686	170	38	1035
Brush. Contact.....	E. L. Orcutt.....	374,198	Dec. 6	46	12	41	1055
Brush-extractor.....	S. Maxim.....	355,460	Jan. 4	215	57	38	43
Brush for gin-saws.....	R. F. Spangenberg.....	360,486	Apr. 5	130	32	39	25
Brush for the use of jewelers and others. Scratch.....	J. Masters.....	359,733	Mar. 22	1930	489	38	1289
Brush. Fountain.....	H. A. Beaumont.....	368,748	Aug. 23	2036	539	40	864
Brush. Fountain.....	C. H. Osborne.....	371,899	Oct. 18	1670	431	41	346
Brush. Fountain scrubbing.....	W. N. Rowe.....	373,197	Nov. 15	1392	369	41	745
Brush-handle attachment.....	G. J. Cline.....	365,329	June 21	1635	427	39	1409
Brush-handle attachment.....	G. J. Cline.....	368,070	Aug. 9	1065	284	40	661
Brush-hook.....	W. J. Chapman and G. Kennedy.....	371,923	Oct. 25	1702	441	41	362
Brush-locker.....	G. J. Brennan.....	369,911	Sept. 13	839	222	40	1202
Brush-making machine.....	L. E. Price and C. L. Sherman.....	356,330	Jan. 18	1480	390	38	298
Brush. Marking.....	S. S. Harman.....	365,472	June 28	1856	482	39	1463
Brush or mop holder.....	M. Bourke.....	374,171	Dec. 6	17	4	41	1049
Brush. Pocket hand.....	C. B. Schroeder.....	372,492	Nov. 1	303	84	41	528
Brush. Scrubbing.....	C. F. Chamberlain and G. L. Lamb.....	359,129	Mar. 8	1024	265	38	1100
Brush. Shaving.....	J. L. Erskine.....	357,983	Feb. 15	1801	472	38	775
Brush-trimming machine.....	T. Coldwell.....	359,847	Mar. 22	2124	535	38	1323
Brush wheel. Revolving wire.....	J. H. Bringold.....	367,591	Aug. 2	342	97, 98	40	517
Brusher. Window.....	J. G. Flower.....	361,584	Apr. 19	1702	439	39	333
Brushes, &c. Attachment for.....	C. A. Fonerden.....	360,872	Apr. 12	681	178	39	133
Brushes. Manufacture of.....	J. A. Read.....	372,385	Nov. 1	152	44	41	498
Brushes. Manufacture of rotary.....	B. F. Quinby.....	356,158	Jan. 18	1246	329	38	253
Brushes. Show-rack for.....	N. K. Graves.....	371,499	Oct. 11	1080	281	41	220
Brushes. Top-knot for blacking.....	J. Ames, Jr.....	371,117	Oct. 4	547	140	41	108
Brushing-machine. Rotary.....	R. B. Hawkins.....	375,154	Dec. 20	1437	376	41	1341
Buckboard.....	J. D. Whitney.....	360,940	Apr. 12	780	203	39	150
Bucket.....	J. T. Denny.....	366,653	July 19	1244	333	40	253
Bucket. Automatic dump.....	A. E. Brown.....	370,679	Sept. 27	1991	530	40	1430
Bucket. Bait and fish.....	R. S. Craig.....	372,124	Oct. 25	2009	515	41	417
Bucket. Chamber and water.....	L. Z. Jenkins.....	357,390	Feb. 8	934	245	38	604
Bucket. Dinner.....	B. K. Galbreth.....	362,948	May 17	1254	332	39	720
Bucket-elevator. Endless-belt.....	W. G. Herbert.....	358,551	Mar. 1	206	48	38	941
Bucket. Milk.....	J. D. Perry.....	363,844	May 31	2527	657	39	980
Bucket. Minnow.....	C. E. Bateman.....	359,311	Mar. 15	1270	329	38	1152
Bucket or pail cover. Sap.....	J. T. and S. D. Porter.....	359,228	Mar. 8	1160	301	38	1124
Bucket. Oyster.....	T. Schmidt.....	358,411	Feb. 22	2401	638	38	892
Bucket. Portable sanitary dinner.....	A. Simon.....	372,337	Nov. 1	76	23	41	486
Bucket. Sap.....	W. Forshee.....	366,210	July 12	627	171	40	126
Buckle.....	G. F. Atwood.....	359,915	Mar. 22	2224	559	38	1342
Buckle.....	H. F. Banks.....	370,757	Oct. 4	6	2	41	4
Buckle.....	R. L. Barney.....	374,033	Nov. 29	2624	704	41	1000
Buckle.....	J. F. Bartlett.....	365,226	June 21	1477	389	39	1380
Buckle.....	J. M. Basinger.....	361,980	Apr. 26	2293	597	39	448
Buckle.....	J. S. Boyd.....	364,210	June 7	19	5	39	1092
Buckle.....	J. S. Boyd.....	368,274	Aug. 16	1367	360	40	726
Buckle.....	J. H. Donahue.....	363,992	May 31	2745	712	39	1020
Buckle.....	J. H. Donahue.....	369,237	Aug. 30	2706	719	40	1004
Buckle.....	L. C. F. Frees.....	361,623	Apr. 19	1764	456	39	345
Buckle.....	D. A. Gilbert.....	374,470	Dec. 6	429	112	41	1128
Buckle.....	W. H. Hall.....	364,245	June 7	62	18	39	1100
Buckle.....	C. R. Harris.....	373,976	Nov. 29	2545	684	41	983
Buckle.....	J. Hazelton.....	357,597	Feb. 15	1249	328	38	673
Buckle.....	J. C. Hyde.....	369,526	Sept. 6	293	81	40	1090
Buckle.....	J. C. Hyde.....	370,737	Sept. 27	2085	553	40	1447
Buckle.....	J. C. Hyde.....	370,738	Sept. 27	2086	553	40	1447
Buckle.....	E. Marx.....	356,772	Feb. 1	41	12	38	431
Buckle.....	T. Mitchell.....	368,299	Aug. 16	1405	371	40	734
Buckle.....	S. E. Moore.....	362,030	Apr. 26	2365	616	39	461
Buckle.....	G. W. Moores.....	357,685	Feb. 15	1381	363	38	696
Buckle.....	G. W. Moores.....	359,683	Mar. 22	1854	471	38	1276
Buckle.....	R. Oliver.....	358,066	Feb. 22	1924	508	38	803
Buckle.....	W. Seabrook.....	359,819	Mar. 22	2069	524	38	1315
Buckle.....	D. L. Smith.....	374,009	Nov. 29	2588	695	41	992
Buckle.....	D. L. Smith.....	374,010	Nov. 29	2590	696	41	993
Buckle.....	D. L. Smith.....	374,377	Dec. 6	295	78	41	1102
Buckle.....	F. B. Spooner.....	372,821	Nov. 8	819	219	41	631
Buckle.....	A. J. Stewart.....	360,827	Apr. 5	608	159	39	114

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Buckle.....	L. B. Stowell.....	357,243	Feb. 8	734	190	38	566
Buckle.....	A. Wahra.....	362,799	May 10	1047	284	39	675
Buckle.....	W. J. Walters.....	374,022	Nov. 29	2607	699	41	996
Buckle and blank. Turn.....	C. H. Williams.....	373,871	Nov. 29	2395	644	41	955
Buckle and strap fastening.....	R. W. Chapman.....	368,376	Aug. 16	1498	400	40	754
Buckle. Back-band.....	A. F. M. Garrett and A. J. Sanford.....	359,254	Mar. 15	1194	311	38	1138
Buckle. Bale-tie.....	G. Leder and W. T. Forbes.....	372,421	Nov. 1	203	57	41	508
Buckle. Belt.....	L. Sanders.....	362,666	May 10	854	233	39	639
Buckle. Breeching.....	T. S. Very.....	374,764	Dec. 13	848	223	41	1222
Buckle for razor-strops.....	T. A. Kochs.....	358,861	Mar. 8	665	166	38	1031
Buckle for saddles. Girth.....	P. J. Pefley.....	362,655	May 10	842	230	39	637
Buckle. Girth.....	G. W. Moores.....	357,684	Feb. 15	1380	363	38	696
Buckle-guard.....	W. H. Chapman.....	372,603	Nov. 1	470	126	41	558
Buckle. Hame-strap.....	M. E. Zeller.....	370,031	Sept. 13	1034	272	40	1236
Buckle. Hame-tug.....	C. Rozell.....	368,011	Aug. 9	987	265	40	647
Buckle. Harness.....	J. M. Hill and A. McRae.....	369,181	Aug. 30	2639	700	40	991
Buckle. Harness.....	J. H. Neill.....	373,245	Nov. 15	1465	386	41	758
Buckle. Harness.....	I. Roraback.....	362,540	May 10	663	186	39	605
Buckle. Harness.....	W. H. Willis and J. H. Cowen.....	363,036	May 17	1383	365	39	745
Buckle. Harness.....	M. E. Zeller.....	360,192	Mar. 29	2691	680	38	1434
Buckle. Harness or trace.....	R. B. Ashley.....	361,253	Apr. 19	1252	319	39	249
Buckle or fastening device. Automatic.....	E. Buchholz.....	360,369	Mar. 29	2944	748	38	1480
Buckle or fastening for suspenders, &c.....	A. J. C. Graf.....	373,735	Nov. 22	2198	587	41	910
Buckle-plate.....	E. C. Grant.....	355,763	Jan. 11	645	169	38	136
Buckle-rolls. Machine for making and attaching.....	J. A. Wilson, Jr.....	356,055	Jan. 11	1082	284	38	218
Buckle. Shoe.....	E. H. Alcott.....	369,152	Aug. 30	2600	691	40	983
Buckle-slide.....	W. S. Carter and F. C. Churchill.....	362,203	May 3	196	58	39	512
Buckle. Strap.....	C. F. Allen.....	362,595	May 10	744	206	39	618
Buckle. Strap.....	C. H. Freer.....	369,705	Sept. 13	543	149	40	1147
Buckle. Suspender.....	M. Hyman.....	373,405	Nov. 15	1708	452	41	803
Buckle. Suspender.....	A. L. Purdy.....	369,656	Sept. 6	477	133	40	1125
Buckle. Suspender.....	D. L. Smith.....	368,022	Aug. 9	998	268	40	649
Buckle. Suspender.....	D. L. Smith.....	370,660	Sept. 27	1965	520	40	1426
Buckle. Suspender.....	D. L. Smith.....	374,853	Dec. 13	973	254	41	1245
Buckle. Suspender.....	W. E. Smith.....	359,185	Mar. 8	1088	283	38	1111
Buckle. Suspender.....	C. Voorhis.....	365,713	June 28	2218	578	39	1531
Buckle. Suspender or other.....	C. R. Harris.....	368,529	Aug. 16	1727	460	40	796
Buckle-tongues. Mechanism for forming.....	H. G. Kelsey and H. A. Hartshorn.....	372,152	Oct. 25	2051	525	41	424
Buckle. Trace.....	W. T. Neelands.....	356,154	Jan. 18	1240	328	38	252
Buckle. Trace.....	J. J. Wallace.....	373,209	Nov. 15	1414	373	41	748
Buckles. Making frames for harness.....	W. B. Brooks.....	369,430	Sept. 6	165	48	40	1063
Buggy-boot.....	C. B. Morehouse.....	368,301	Aug. 16	1406	371	40	734
Buggy-boot.....	H. W. Ransom.....	357,690	Feb. 15	1386	365	38	697
Buggy-boot.....	T. E. Stevens.....	366,270	July 12	714	194	40	143
Buggy-boot.....	T. E. Stevens.....	369,567	Sept. 6	351	97	40	1101
Buggy-bow rest.....	H. Renck.....	367,064	July 26	1788	482	40	363
Buggy. Buckboard.....	W. S. Barager and A. L. Long.....	358,010	Feb. 22	1838	486	38	787
Buggy-seat.....	G. G. Harris.....	362,275	May 3	290	80	39	530
Buggy-seat pocket.....	W. C. Reeves.....	364,771	June 14	812	213	39	1247
Buggy-top.....	W. Blume.....	374,925	Dec. 20	1097	286	41	1278
Buggy-top.....	R. Kohn.....	375,075	Dec. 20	1321	345	41	1318
Building and bridge construction.....	P. H. Jackson.....	371,843	Oct. 18	1578	408	41	329
Building and bridge construction.....	P. H. Jackson.....	371,844	Oct. 18	1582	408	41	329
Building-block.....	S. D. Castleman.....	358,837	Mar. 8	616	.....	38	1023
Building-blocks. Machine for molding.....	H. S. Palmer.....	375,377	Dec. 27	1730	454	41	1407
Building material for architectural purposes. Composition of.....	C. Straub.....	361,601	Apr. 19	1726	.....	39	337
Building or bridge construction.....	P. H. Jackson.....	366,839	July 19	1498	400	40	299
Buildings. Construction of.....	W. Dryden.....	372,461	Nov. 1	264	73	41	520
Buildings. Corrugated ridge-capping for.....	W. H. and B. F. Powers.....	365,096	June 21	1302	344	39	1346
Bullet.....	A. T. Loyd.....	355,653	Jan. 4	485	129	38	95
Bulletin-board.....	W. S. Evans.....	356,062	Jan. 11	1089	287	38	219
Bulletin-board. Adjustable.....	H. C. Cannon and A. E. McGrath.....	364,895	June 14	1002	262	39	1282
Bulletin-board and broom-holder. Combined.....	M. W. Mahar.....	360,359	Mar. 29	2929	744	38	1478
Bundle-carrier.....	B. A. Kennedy and J. F. Steward.....	358,934	Mar. 8	771	192	38	1051
Bung.....	L. E. Bowker.....	358,536	Mar. 1	184	43	38	936
Bung.....	C. G. Dodge, Jr.....	358,387	Feb. 22	2369	630	38	886
Bung.....	J. Langstaff and S. Watson.....	375,076	Dec. 20	1322	345	41	1318
Bung.....	M. R. Maher.....	373,592	Nov. 22	2001	530	41	869
Bung.....	A. Rust.....	364,188	May 31	3023	784	39	1074
Bung.....	M. Schwemberger.....	356,379	Jan. 18	1547	407	38	311
Bung.....	O. Sowers.....	366,434	July 12	920	249	40	182
Bung and bushing.....	O. Eisenhuth.....	368,139	Aug. 9	1154	307	40	678
Bung, bush, and vent.....	J. P. Gruber.....	367,391	Aug. 2	49	13	40	460
Bung. Expanding.....	R. O. Sprogle.....	361,030	Apr. 12	919	233	39	175
Bung-extractor.....	P. Christman.....	359,998	Mar. 29	2362	595	38	1374
Bung for beer-kegs, &c. Draft.....	T. N. Curtis and E. W. Hatch.....	361,618	Apr. 19	1752	454	39	343
Bung-making machine.....	E. E. Elder.....	373,345	Nov. 15	1606	424	41	784
Bung-retainer and stamp-protector.....	D. Croake.....	370,857	Oct. 4	157	42	41	31
Bung. Vent.....	C. Morrill.....	373,565	Nov. 22	1960	521	41	861
Bungs. Machine for cutting.....	S. C. Chase.....	357,175	Feb. 8	644	167	38	549
Buoy.....	P. Delany.....	366,077	July 5	446	121	40	84
Bureau and cheval glass. Combination.....	G. F. Clingman.....	367,597	Aug. 2	349	99	40	518
Burglar-alarm.....	E. C. Ellwood.....	364,637	June 14	607	162	39	1210
Burglar-alarm.....	A. E. Hathaway.....	368,336	Aug. 16	1447	384	40	743
Burglar-alarm.....	B. F. Hough.....	367,523	Aug. 2	248	71	40	499
Burglar-alarm.....	D. H. Kime.....	375,637	Dec. 27	2092	545	41	1475
Burglar-alarm.....	S. T. Lamb.....	368,095	Aug. 9	1098	291	40	668
Burglar-alarm.....	C. Lamberty.....	357,837	Feb. 15	1602	415	38	738
Burglar-alarm.....	H. L. Peck.....	364,540	June 7	483	{ 130 131 }	{ 39 39 }	{ 1178 145 }
Burglar-alarm.....	H. L. Silver.....	360,923	Apr. 12	747	196	39	145
Burglar-alarm.....	G. Wade and J. C. Burrus.....	366,537	July 12	1063	289	40	211
Burglar-alarm and call-bell.....	F. Cross.....	365,368	June 28	1692	441	39	1432

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Burglar-alarm. Electric.....	E. E. Carr	357,815	Feb. 15	1570	409	38	731
Burglar-alarm. Electric.....	G. B. Leby.....	364,764	June 14	798	211	39	1245
Burglar-alarm. Electric.....	J. B. Yeakle and A. Steuart.....	370,439	Sept. 27	1623	{ 433 434 }	{ 40 }	1363
Burglar-alarm. Electrical.....	G. Schleicher	357,416	Feb. 8	965	254	38	610
Burial-case.....	R. W. Griffith	358,347	Feb. 22	2313	612	38	875
Burial-casket.....	S. E. Baker.....	358,009	Feb. 22	1836	{ 485 486 }	{ 38 }	787
Burial-casket.....	J. H. Bootes	358,007	Feb. 15	1833	483	38	780
Burial-casket.....	E. S. Earley.....	361,147	Apr. 12	1100	279	39	209
Burial-casket.....	R. B. Heuchan and S. A. Mason.....	361,518	Apr. 19	1602	415	39	315
Burial-casket.....	G. S. Parker.....	356,660	Jan. 25	1953	513	38	396
Burial-casket fastening.....	F. S. Craig.....	362,037	Apr. 26	2371	618	39	462
Burner:							
See Argand burner. Lamp-burner.							
Atmospheric burner. Oil-burner.							
Gas-burner. Petroleum-burner.							
Gasoline-burner. Refuse-burner.							
Hydrocarbon-burner. Vapor-burner.							
Injector-burner. Vapor and steam burner.							
Burner-casing.....	H. F. Bartlett	367,583	Aug. 2	334	95	40	515
Burning and utilizing wet and offensive substances.....	A. Engle.....	372,304	Nov. 1	26	8	41	476
Burning bagasse or other wet material. Apparatus for.....	R. H. Yale.....	363,270	May 17	1692	444	39	806
Burning garbage. Apparatus for.....	J. Anderson.....	355,851	Jan. 11	780	205	38	158
Burnishing-machine.....	C. J. Addy.....	356,911	Feb. 1	235	65	38	465
Burnishing-machine.....	E. B. Allen.....	374,885	Dec. 13	1022	267	41	1255
Burnishing-machine.....	G. B. Kelley.....	356,842	Feb. 1	139	38	38	448
Burnishing-machine.....	B. F. Patch.....	362,036	Apr. 26	2370	618	39	462
Bushing-mold.....	W. Messerle.....	359,735	Mar. 22	1932	490	38	1290
Bust-form.....	E. Case.....	370,375	Sept. 27	1537	411	40	1347
Bustle.....	A. Alplanalb.....	358,914	Mar. 8	746	{ 184 185 }	{ 38 }	1046
Bustle.....	N. F. Ardery.....	372,192	Oct. 25	2111	542	41	435
Bustle.....	D. Basch.....	367,585	Aug. 2	335	95	40	516
Bustle.....	J. C. Betten.....	362,055	May 3	6	3	39	474
Bustle.....	L. S. Bortree.....	369,979	Sept. 13	955	252	40	1222
Bustle.....	A. H. Brinkmann.....	358,726	Mar. 1	454	110	38	998
Bustle.....	V. H. Buschmann.....	358,800	Mar. 1	554	138	38	1007
Bustle.....	V. H. Buschmann.....	374,519	Dec. 6	499	130	41	1142
Bustle.....	H. O. Canfield.....	359,240	Mar. 15	1178	307	38	1135
Bustle.....	H. O. Canfield.....	359,711	Mar. 22	1897	482	38	1284
Bustle.....	H. O. Canfield.....	365,045	June 21	1220	322	39	1333
Bustle.....	H. O. Canfield.....	370,181	Sept. 20	1262	335	40	1287
Bustle.....	H. O. Canfield.....	370,927	Oct. 4	284	69	41	56
Bustle.....	H. O. Canfield.....	372,116	Oct. 25	1999	{ 512 513 }	{ 41 }	414
Bustle.....	H. O. Canfield.....	373,050	Nov. 15	1164	312	41	703
Bustle.....	C. C. Carpenter.....	366,378	July 12	858	230	40	169
Bustle.....	A. C. and O. J. Decker.....	374,660	Dec. 13	700	184	41	1192
Bustle.....	W. A. Dotey.....	374,180	Dec. 6	25	6	41	1051
Bustle.....	C. M. Durnil.....	371,742	Oct. 18	1431	370	41	300
Bustle.....	G. Eckles.....	362,260	May 3	270	75	39	526
Bustle.....	E. C. Felton.....	375,318	Dec. 20	1649	432	41	1383
Bustle.....	D. O. Fosgate.....	363,458	May 24	1954	511	39	863
Bustle.....	E. D. and J. Fraser.....	364,003	May 31	2757	715	39	1023
Bustle.....	E. D. and J. Fraser.....	371,135	Oct. 4	572	146	41	113
Bustle.....	E. A. Gilbert.....	358,115	Feb. 22	1992	525	38	814
Bustle.....	S. B. Gray.....	359,860	Mar. 22	2147	542	38	1328
Bustle.....	M. B. Hammond.....	373,286	Nov. 15	1523	403	41	769
Bustle.....	C. W. Haynes.....	361,762	Apr. 26	1963	512	39	389
Bustle.....	C. W. Higby.....	369,179	Aug. 30	2638	700	40	991
Bustle.....	J. Hosford.....	366,217	July 12	641	174	40	129
Bustle.....	S. H. Hubbard and S. S. Williamson.....	372,800	Nov. 8	791	212	41	626
Bustle.....	S. H. Hubbard and S. S. Williamson.....	372,801	Nov. 8	792	212	41	626
Bustle.....	S. H. Hubbard and S. S. Williamson.....	372,802	Nov. 8	793	212	41	626
Bustle.....	A. H. Jackson.....	369,943	Sept. 13	892	237	40	1211
Bustle.....	M. Leaman.....	369,455	Sept. 6	200	57	40	1070
Bustle.....	F. P. Marsh.....	361,432	Apr. 19	1493	385	39	294
Bustle.....	F. B. Melville.....	372,633	Nov. 1	516	141	41	568
Bustle.....	S. A. Munson.....	361,314	Apr. 19	1335	343	39	265
Bustle.....	H. P. Olmstead.....	368,106	Aug. 9	1112	295	40	670
Bustle.....	H. Payne.....	368,000	Aug. 9	970	260	40	644
Bustle.....	P. M. and A. Randall.....	360,726	Apr. 5	472	120	39	88
Bustle.....	A. L. Rich.....	371,628	Oct. 18	1258	327	41	264
Bustle.....	G. O. Schneller.....	373,688	Nov. 22	2137	572	41	898
Bustle.....	G. O. Schneller.....	373,689	Nov. 22	2139	573	41	898
Bustle.....	C. C. Shelby.....	361,969	Apr. 26	2278	592	39	446
Bustle.....	C. C. Shelby.....	374,632	Dec. 13	668	175	41	1186
Bustle.....	A. Stern.....	368,558	Aug. 16	1769	470	40	805
Bustle.....	A. Taylor.....	372,183	Oct. 25	2090	536	41	432
Bustle.....	T. P. Taylor.....	355,573	Jan. 4	362	97	38	73
Bustle.....	T. P. Taylor.....	358,130	Feb. 22	2021	531	38	819
Bustle.....	T. P. Taylor.....	359,231	Mar. 8	1163	302	38	1124
Bustle.....	T. P. Taylor.....	359,232	Mar. 8	1164	302	38	1124
Bustle.....	T. P. Taylor.....	361,336	Apr. 19	1359	{ 349 350 }	{ 39 }	269
Bustle.....	T. P. Taylor.....	364,870	June 14	964	253	39	1275
Bustle.....	T. P. Taylor.....	366,276	July 12	722	196	40	144
Bustle.....	T. P. Taylor.....	370,103	Sept. 20	1146	303	40	1264
Bustle.....	T. P. Taylor.....	374,214	Dec. 6	63	17	41	1059
Bustle.....	T. P. Taylor.....	374,216	Dec. 6	65	17	41	1059
Bustle.....	T. P. Taylor.....	374,642	Dec. 13	682	179	41	1188
Bustle.....	M. W. Tooker.....	371,905	Oct. 18	1677	433	41	347
Bustle.....	J. L. Wells.....	358,712	Mar. 1	436	106	38	985

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Bustle.....	D. Wertz.....	359,302	Mar. 15	1258	326	38	1150
Bustle.....	D. Wertz.....	372,098	Oct. 25	1973	507	41	410
Bustle and making same.....	R. Mongar.....	356,659	Jan. 25	1953	512	38	396
Bustle or pannier.....	M. J. Hodgkin.....	364,820	June 14	891	234	39	261
Bustle-spring.....	J. Bowers.....	360,136	Mar. 29	2606	661	38	1418
Bustle-spring.....	L. Moschcowitz.....	362,391	May 3	445	123	39	562
Bustles. Hinge and tip for twin-wire stays for.....	G. O. Schneller.....	373,687	Nov. 22	2136	572	41	898
Butter-case.....	A. G. Moyer.....	373,901	Nov. 29	2443	656	41	963
Butter-jar.....	L. K. Bryant.....	356,188	Jan. 18	1278	337	38	259
Butter-jar.....	H. E. Hinman.....	361,062	Apr. 12	960	243	39	182
Butter. Making.....	G. F. Williams.....	358,097	Feb. 22	1962	.....	38	809
Butter. Making a compound resembling.....	W. J. Skiff.....	373,618	Nov. 22	2037	.....	41	877
Butter-package.....	S. Smyth.....	362,676	May 10	867	237	39	641
Butter or lard cutter.....	C. D. Cannon.....	366,567	July 12	1116	299	40	222
Butter. Purifying and preserving.....	G. W. Towar, Jr.....	367,940	Aug. 9	884	240	40	628
Butter-tub.....	H. R. French.....	367,384	Aug. 2	37	10	40	458
Butter-tub.....	J. McAdam.....	357,935	Feb. 15	1732	452	38	761
Butter-tub.....	J. McAdam.....	357,936	Feb. 15	1733	452	38	762
Butter-worker.....	B. B. Beers.....	359,954	Mar. 22	2285	574	38	1353
Butter-worker.....	J. S. Carter and I. C. Wightman.....	356,924	Feb. 1	251	69	38	468
Butter-worker.....	E. S. Rice.....	356,791	Feb. 1	68	19	38	436
Butter-worker.....	O. J. Wenner.....	363,869	May 31	2559	664	39	986
Butter-wrapper.....	S. Tilton.....	356,180	Jan. 18	1269	335	38	258
Button.....	W. Appleton.....	370,441	Sept. 27	1633	435	40	1364
Button.....	E. D. Cooke.....	356,928	Feb. 1	255	70	38	468
Button.....	J. Costello.....	361,490	Apr. 19	1566	406	39	308
Button.....	J. Costello.....	363,285	May 17	1713	449	39	810
Button.....	O. C. Devereux.....	375,137	Dec. 20	1415	368	41	1335
Button.....	F. J. Edwards.....	366,467	July 12	960	261	40	191
Button.....	R. Elsdon.....	355,601	Jan. 4	395	107	38	79
Button.....	F. A. Fox.....	363,628	May 24	2218	575	39	915
Button.....	T. W. Fox.....	366,769	July 19	1406	376	40	282
Button.....	H. Gray.....	374,533	Dec. 6	522	136	41	1147
Button.....	S. R. Grover.....	360,684	Apr. 5	408	105	39	77
Button.....	G. Heidmann, E. Höttges, and C. Egen.....	375,629	Dec. 27	2082	542	41	1473
Button.....	P. Hirshfield.....	366,101	July 5	474	129	40	89
Button.....	F. Hosser.....	356,768	Feb. 1	36	11	38	430
Button.....	A. E. Jones.....	362,281	May 3	296	82	39	531
Button.....	E. L. Lambert.....	374,258	Dec. 6	124	32	41	1071
Button.....	R. H. Lewis.....	365,693	June 28	2187	571	39	1526
Button.....	E. H. May.....	375,373	Dec. 27	1726	452	41	1406
Button.....	H. McDougall.....	366,419	July 12	901	243	40	178
Button.....	N. Mitchell.....	370,489	Sept. 27	1709	453	40	1378
Button.....	C. L. Nutting.....	371,620	Oct. 18	1249	325	41	262
Button.....	L. A. Platt.....	363,676	May 24	2279	591	39	927
Button.....	P. A. Raymond.....	369,882	Sept. 13	802	214	40	1195
Button.....	C. I. Richards.....	369,076	Aug. 30	2510	665	40	964
Button.....	J. J. Sanders and F. I. Moreau.....	355,342	Jan. 4	72	19	38	15
Button.....	W. H. Schultz.....	364,678	June 14	655	176	39	1220
Button.....	J. T. Sheridan.....	371,378	Oct. 11	911	234	41	185
Button.....	M. D. Shipman.....	357,237	Feb. 8	727	189	38	565
Button.....	S. B. Simon.....	373,250	Nov. 15	1469	388	41	759
Button.....	C. W. Stuart.....	360,976	Apr. 12	836	214	39	160
Button.....	P. W. Tillinghast.....	359,648	Mar. 22	1808	460	38	1267
Button.....	J. E. Totten.....	375,582	Dec. 27	2012	523	41	1461
Button.....	J. E. Totten.....	375,583	Dec. 27	2013	523	41	1461
Button.....	G. A. Wade.....	371,864	Oct. 18	1613	416	41	336
Button.....	G. K. Webster.....	356,386	Jan. 18	1559	410	38	313
Button.....	E. Zöller.....	365,894	July 5	193	49	40	38
Button and button-fastener.....	R. J. Kyle.....	363,523	May 24	2060	535	39	886
Button and button-fastening.....	J. Ewig.....	375,698	Dec. 27	2181	567	41	1491
Button and button-hole marking machine.....	C. B. Hatfield and A. Sorge, Jr.....	365,126	June 21	1350	357	39	1354
Button and fastener.....	F. A. Smith, Jr.....	361,462	Apr. 19	1530	396	39	301
Button and fastener holder.....	J. F. Thayer.....	373,540	Nov. 22	1928	511	41	856
Button-attaching machine.....	W. O. Crain.....	368,134	Aug. 9	1149	305	40	677
Button-attaching machine.....	E. P. Merwin and W. E. Bennett.....	369,069	Aug. 30	2496	662 } 663 }	40	962
Button-attaching machine.....	I. J. Saunders.....	371,632	Oct. 18	1261	328	41	264
Button-attaching machines. Chute for.....	F. A. Smith, Jr.....	372,045	Oct. 25	1888	487	41	395
Button. Changeable.....	S. E. Smith.....	358,080	Feb. 22	1940	512	38	806
Button-cleaning shield. Metal.....	G. W. Mills.....	366,676	July 19	1279	341	40	259
Button. Collar.....	L. Baer.....	357,358	Feb. 8	883	232	38	594
Button. Collar.....	H. S. De Solla.....	358,433	Mar. 1	13	4	38	905
Button. Collar.....	G. H. Rose.....	361,324	Apr. 19	1344	346	39	266
Button. Collar.....	W. Scott.....	374,429	Dec. 6	367	96	41	1116
Button. Collar.....	I. Steinau.....	356,559	Jan. 25	1812	474	38	368
Button. Convertible.....	L. D. Frenot.....	363,738	May 24	2372	616	39	945
Button. Cuff.....	G. B. Adams.....	360,368	Mar. 29	2941	747	38	1480
Button. Cuff.....	M. Bouquet.....	366,644	July 19	1234	330	40	251
Button. Cuff.....	W. E. Gillman.....	369,106	Aug. 30	2551	678	40	972
Button. Cuff.....	F. J. Patten.....	356,423	Jan. 18	1613	423	38	323
Button. Cuff or collar.....	F. A. Bork.....	361,044	Apr. 12	939	237	39	178
Button. Cuff or collar.....	J. A. Lieb.....	372,033	Oct. 25	1872	483	41	392
Button-die.....	W. Hornich.....	372,622	Nov. 1	496	135	41	564
Button-eyes. Machine for making.....	D. J. Warner.....	365,416	June 28	1767	459 } 460 }	39	1446
Button-fastener.....	W. Halkyard.....	364,013	May 31	2771	718	39	1026
Button-fastener.....	A. Hall.....	361,410	Apr. 19	1464	378	39	288
Button-fastener.....	G. W. Prentice.....	358,481	Mar. 1	89	22	38	920
Button-fastener.....	S. W. Shorey.....	371,381	Oct. 11	918	236	41	186
Button-fastener.....	J. F. Thayer.....	358,507	Mar. 1	122	30	38	926
Button-fastener.....	J. F. Thayer.....	373,541	Nov. 22	1929	511	41	856
Button-fasteners. Blank for and method of making.....	F. H. Richards.....	367,010	July 19	1712	461	40	340

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Button-fasteners. Machine for clinching metallic...	O. W. Ketchum	365,604	June 28	2062	537	39	1504
Button-fasteners. Machine for making	A. M. English	360,004	Mar. 29	2370	598 599 600	38	1376
Button-fastening	J. E. Tilt	362,193	May 3	184	55	39	509
Button-fastening attachment	E. O. Ely	365,299	June 21	1591	414 415	39	1400
Button-fastening for garments	I. Newman	360,723	Apr. 5	465	118	39	86
Button-fastening machine	E. O. Ely	368,659	Aug. 23	1896	505	40	838
Button-fastening machine	A. H. Gleason	375,149	Dec. 20	1429	373 375	41	1339
Button-fastening machine	C. L. Olds and J. Eklund	368,419	Aug. 16	1560	416 417	40	766
Button-fastening machine	G. W. Prentice	359,631	Mar. 22	1783	454 455	38	1263
Button-fastening machine	J. H. Vinton	368,631	Aug. 23	1865	498	40	832
Button-fastening staple	G. W. Prentice	357,626	Feb. 15	1284	338	38	679
Button for dress-trimmings	C. Seel	370,419	Sept. 27	1596	426	40	1358
Button. Hinged shoe	R. H. Lewis	325,297	Dec. 20	1615	423	41	1376
Button-holder and buckle. Combined	B. G. Corser	372,062	Oct. 25	1913	493	41	399
Button-hole attachment	J. M. Griest	362,442	May 3	516	144 145	39	574
Button-hole-barring machine	H. L. Kemp	372,226	Oct. 25	2159	554	41	445
Button-hole cutter	L. A. Carson	362,817	May 10	1065	289	39	678
Button-hole cutter	C. Dickenson	365,333	June 21	1639	428	39	1409
Button-hole-marking gage	D. Phillips	365,838	July 5	260	68	40	50
Button-hole piece	J. Reece	373,153	Nov. 15	1324	351	41	732
Button-hole stay	J. R. Frost	364,812	June 14	879	231	39	1259
Button-hole-stitching machine	J. W. Lufkin	355,878	Jan. 11	823	215 216	38	167
Button-hole-stitching machine	J. H. Reed	357,537	Feb. 8	1148	301 302	38	644
Button-hole strips. Making	J. Stone	370,903	Oct. 4	240	61	41	47
Button-holes. Machine for stitching and cutting	F. Egge	362,945	May 17	1248	331 332	39	718
Button-holes. Making	J. D. Wentworth	368,035	Aug. 9	1013	272	40	652
Button-holes. Staying	S. A. West	373,507	Nov. 22	1874	497	41	846
Button-hook	T. B. Hodge	358,118	Feb. 22	2001	527	38	815
Button-lathes. Grip for	W. F. Young	372,443	Nov. 1	237	66	41	515
Button. Lever	J. Costello	358,384	Feb. 22	2365	628	38	886
Button-locating and shoe-fly-cutting machine	T. E. Keavy	356,716	Jan. 25	2020	531	38	408
Button-locating and shoe-fly-cutting machine	T. E. Keavy	356,717	Jan. 25	2022	531	38	408
Button-locating and shoe-fly-cutting machine	T. E. Keavy	356,718	Jan. 25	2023	532	38	409
Button-machine	J. T. Cassidy	367,501	Aug. 2	218	62	40	493
Button-machine	W. P. Devine	363,214	May 17	1621	426	39	792
Button-machine	J. C. Stevens	365,550	June 28	1978	515	39	1488
Button-making. Collet or shell die for	W. Hornich	374,741	Dec. 13	815	214	41	1215
Button-making machine	L. E. Chace	372,011	Oct. 25	1825	473	41	384
Button-making machine	J. C. Schott	361,088	Apr. 12	996	253	39	190
Button-making machine	J. C. Schott	375,004	Dec. 20	1219	318 319	41	1300
Button-making machine	J. T. Sheridan	371,379	Oct. 11	911	234	41	185
Button-making machine	W. W. Wade	362,335	May 3	366	101 102	39	545
Button-mold	T. G. Roebuck	366,688	July 19	1295	346	40	262
Button or stud	G. E. Adams	373,041	Nov. 15	1153	309	41	701
Button or stud	W. W. Covell	357,179	Feb. 8	650	168	38	550
Button or stud	W. W. Covell	374,115	Nov. 29	2746	738	41	1023
Button or stud	H. H. Curtis	369,695	Sept. 13	530	147	40	1145
Button or stud	W. G. Hopkins	359,677	Mar. 22	1848	469	38	1275
Button or stud	B. Lyon	374,366	Dec. 6	282	75	41	1100
Button or stud	G. W. Prentice	374,626	Dec. 13	656	171	41	1183
Button or stud	F. W. Richards	358,882	Mar. 8	695	172	38	1036
Button or stud	L. Rousselle	369,557	Sept. 6	333	92	40	1098
Button or stud	T. I. Smith	367,860	Aug. 9	763	205	40	605
Button ornamenting and engraving machine	C. R. Bannihir	357,264	Feb. 8	764	199	38	571
Button remover. Shoe	D. L. Sharp	371,280	Oct. 11	774	199	41	160
Button. Safety	T. Regensteiner	371,707	Oct. 18	1384	357	41	289
Button. Self-attaching	H. Gray	375,065	Dec. 20	1307	341	41	1315
Button. Separable	F. Meyers	369,201	Aug. 30	2663	708	40	996
Button-setting instrument	A. G. Wilkins	367,016	July 19	1717	462	40	341
Button-setting machine	L. C. Emerson	368,141	Aug. 9	1160	309	40	679
Button-setting machine	J. B. Miller	355,832	Jan. 11	748	196 197 198	38	153
Button-setting machine	F. H. Richards	369,260	Aug. 30	2737	729	40	1010
Button-setting machine	O. Stoddard	372,773	Nov. 8	737	200	41	617
Button-setting machine	E. H. Taylor	368,625	Aug. 23	1857	496	40	830
Button-setting machine	J. H. Vinton	363,349	May 17	1803	472 473	39	827
Button-setting tool	W. Keppler	362,284	May 3	299	83	39	532
Button. Sleeve	J. Bulova	364,212	June 7	21	6	39	1092
Button. Sleeve	E. I. Coombs	362,426	May 3	496	140	39	571
Button. Sleeve	C. A. Fautz	360,671	Apr. 5	394	100	39	74
Button. Sleeve	F. W. Richards	362,315	May 3	341	94	39	540
Button. Spring	F. W. Lynn	357,327	Feb. 8	843	220	38	587
Button. Spring cuff	E. K. Haynes	373,401	Nov. 15	1702	451	41	802
Button-stapling machine	E. O. Ely	363,054	May 17	1403	371	39	749
Button, stud, &c	D. R. Child	361,862	Apr. 26	2119	549	39	418
Button, stud, locket, or other article of jewelry	L. B. Byrne	373,514	Nov. 22	1893	502	41	850
Button-trimming	C. Seel	360,329	Mar. 29	2880	733	38	1470
Button tuft or ornament	H. A. Cables	373,128	Nov. 15	1276	340	41	725
Buttons. Attaching	W. E. Bennett	367,334	July 26	2188	588	40	437

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Buttons. Device for detaching	B. Poulson	367,319	July 26	2165	583	40	432
Buttons. Machine for attaching	A. M. English	358,342	Feb. 22	2304	{ 609 610	{ 38	874
Buttons. Machine for drilling holes and plowing grooves in	D. B. Shantz	357,861	Feb. 15	1633	{ 424 425	{ 38	743
Buttons. Machine for making	L. E. Chace	359,997	Mar. 29	2360	595	38	1374
Buttons. Machine for making	L. P. Warner	360,367	Mar. 29	2939	747	38	1479
Buttons. Machine for making collar	G. Krementz	372,683	Nov. 8	589	{ 160 161	{ 41	591
Buttons. Machine for manufacturing	G. Heidmann, E. Höttges, and C. Egen. }	369,787	Sept. 13	646	{ 174 175	{ 40	1166
Buttons. Machine for punching and trimming	J. Naylor	369,070	Aug. 30	2500	663	40	963
Buttons. Making parts of	L. B. Byrne	373,515	Nov. 22	1894	502	41	850
Buttons. Process of and machine for making	O. W. Ketchum	367,410	Aug. 2	76	20	40	465
Buttons, &c. Toggle-fastening for	C. V. Richards	373,309	Nov. 15	1556	412	41	775
Buttons to materials. Securing	W. E. Bennett	368,124	Aug. 9	1131	301	40	674
Buttuner. Glove or shoe	J. B. Smith	368,024	Aug. 9	1000	269	40	650
Cab doors and windows. Operating	H. C. Sears	356,212	Jan. 18	1311	347	38	266
Cab. Hansom	J. H. Hannay	370,697	Sept. 27	2023	538	40	1436
Cab. Hansom	C. A. Reade	356,160	Jan. 18	1247	330	38	254
Cab. Hansom	J. C. Robinson	370,352	Sept. 20	1489	399	40	1331
Cabs and other vehicles. Door-operating device for	R. Sproul	375,213	Dec. 20	1514	{ 297 298	{ 41	1357
Cabinet-bath	A. Pauly	356,545	Jan. 25	1783	464	38	363
Cabinet-battery	H. E. Waite	360,934	Apr. 12	771	200	39	149
Cabinet. Blank	J. H. Paul	372,383	Nov. 1	150	43	41	498
Cabinet-chair	C. S. F. Kirkeby	358,616	Mar. 1	298	71	38	958
Cabinet for paper and other materials	J. T. Hoyt	369,642	Sept. 6	460	128	40	1122
Cabinet for paper sheets and bags	J. A. Pritchard	356,784	Feb. 1	54	16	38	433
Cabinet. Grocer's	J. P. Flick	372,972	Nov. 8	1038	278	41	670
Cabinet. Label	H. and W. F. Neitzel	362,306	May 3	325	90	39	537
Cabinet. Medicine	A. Claypool	369,590	Sept. 6	379	{ 105 106	{ 40	1107
Cable. Chain	J. M. Dodge	361,865	Apr. 26	2122	550	39	418
Cable. Chain	J. M. Dodge	363,216	May 17	1626	427	39	793
Cable. Chain	W. D. Ewart	363,288	May 17	1717	450	39	811
Cable-crossing	C. L. Leiby and C. L. Baittinger, Jr. }	359,083	Mar. 8	961	247	38	1087
Cable device for bridges. Traction	F. L. W. Church	372,402	Nov. 1	173	49, 50	41	502
Cable-grip	W. Dunham	364,709	June 14	708	189	39	1230
Cable-grip	L. D. Libbey	373,188	Nov. 15	1376	365	41	742
Cable-grip	R. P. Walsh	360,744	Apr. 5	492	{ 126 127	{ 39	92
Cable grip. Traction	E. Smith	371,103	Oct. 4	530	{ 134 135	{ 41	105
Cable-gripping mechanism	A. D. Whitton	374,767	Dec. 13	851	224	41	1222
Cable-hanger	J. A. Barrett	358,140	Feb. 22	2034	.....	38	822
Cable-hanger	F. E. Degenhardt	368,136	Aug. 9	1151	306	40	678
Cable-hanger	G. L. Wiley	355,491	Jan. 4	257	68	38	52
Cable-hanger	G. L. Wiley	355,492	Jan. 4	258	68	38	52
Cable-hanger	G. L. Wiley	355,493	Jan. 4	259	68	38	52
Cable-rack for switch-boards	J. A. Seely	367,730	Aug. 2	577	157	40	560
Cable-road curve	D. Devlin	370,381	Sept. 27	1546	414	40	1349
Cable roads. Grip-releasing device for	J. T. Cooney	365,168	June 21	1406	371	39	1365
Cable-track road and tightener for same	C. Carr	374,866	Dec. 13	996	260	41	1249
Cable tramway	J. S. Lake	368,291	Aug. 16	1393	368	40	732
Cable. Wire	A. J. Moxham	362,649	May 10	834	227	39	635
Cables, &c. Clip or hanger-clasp for supporting	T. T. Eckert	374,948	Dec. 20	1144	299	41	1286
Cables. Conduit structure for traction	W. Phenix	364,288	June 7	115	33	39	1111
Cables. Covering for traction	T. E. McCann	358,160	Feb. 22	2061	542	38	827
Cables, &c. Grip for	P. Kelly	369,531	Sept. 6	300	83	40	1091
Cables. Joint for lead-covered	R. S. Waring	371,808	Oct. 18	1525	393	41	318
Cables. Splicing	J. Collins	369,435	Sept. 6	170	49, 50	40	1064
Cables. Splicing	J. Collins	371,671	Oct. 18	1321	342	41	277
Cables. Splicing traction	P. J. Frasz	372,792	Nov. 8	763	206	41	621
Cactus-singer	E. W. Vacher	369,896	Sept. 13	818	217	40	1198
Caddy. Tea or sugar	G. Hazelton	372,263	Oct. 25	2217	568	41	456
Cage-protectors. Bracket-hook for	W. S. Armstrong	363,879	May 31	2571	668	39	988
Cages. Perch-holder for bird	G. C. Hinman	367,395	Aug. 2	55	14	40	461
Cake-mixer	M. D. Platner	359,887	Mar. 22	2183	550	38	1334
Cake. Mold for ornamenting	C. A. Bailey	360,753	Apr. 5	504	130	39	94
Cake or bread box	C. Forster	370,464	Sept. 27	1672	445	40	1372
Calcimine. Medicated	T. E. Costello	361,051	Apr. 12	948	.....	39	180
Calcining apparatus	A. Droit	370,326	Sept. 20	1453	390	40	1323
Calculating-machine	G. B. Grant	368,528	Aug. 16	1723	459	40	796
Calculator	J. G. Kurtz	356,140	Jan. 18	1219	323	38	249
Calculator for grain, &c	A. Sargeant, Jr.	370,284	Sept. 20	1396	{ 374 375	{ 40	1313
Calculator. Time	W. Wood	370,364	Sept. 20	1514	{ 405 406	{ 40	1335
Calelectric generator	E. G. Acheson	375,408	Dec. 27	1767	463	41	1414
Calendar	J. A. Guyot	369,054	Aug. 30	2476	{ 657 658	{ 40	958
Calendar	E. C. Jayne	369,945	Sept. 13	899	239	40	1212
Calendar	A. Jording	371,944	Oct. 25	1733	448	41	367
Calendar. Indicating	A. L. Sewell	363,088	May 17	1450	384	39	758
Calendar. Perpetual	A. H. Isbell	373,235	Nov. 15	1455	383	41	756
Calendar. Perpetual combination date	J. M. Anderson	357,262	Feb. 8	761	198	38	571
Calendar. Roll	H. S. Hack	364,919	June 14	1030	269	39	1288
Calendar. Roll	H. S. Hack	364,920	June 14	1030	269	39	1288
Calendar-protector	W. F. McCarthy	362,294	May 3	311	86	39	534
Calendar-stand	N. C. Fowler, Jr., and E. W. Pope	375,545	Dec. 27	1958	510	41	1451
Calendering-machines. Sheet-steaming attachment for	H. W. Bond, Jr., and J. A. Dakin	371,732	Oct. 18	1419	367	41	297
Caliper-gage	J. Tickell	359,295	Mar. 15	1248	324	38	1147

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Caliper-gage	J. Tickell	367,473	Aug. 2	158	45	40	482
Calipers	J. H. Culver	371,489	Oct. 11	1056	275	41	215
Calipers	O. D. Warfield	364,067	May 31	2841	737	39	1040
Calipers, dividers, &c. Leg-joint for	C. P. Fay	375,703	Dec. 27	2186	568	41	1492
Calipers, dividers, &c. Leg-joint for	L. S. Starrett	375,658	Dec. 27	2120	550	41	1480
Calisthenic apparatus	C. Brunner	359,994	Mar. 29	2352	593	38	1372
Calk-sharpening machine	G. W. Savage	374,811	Dec. 13	918	240	41	1235
Calk stock. Manufacture of shoe	E. S. Brainard	372,398	Nov. 1	169	48	41	501
Calks. Machine for making toe	J. C. Kelly	374,681	Dec. 13	729	191	41	1198
Caloric-engine	D. I. Eckerson	373,820	Nov. 29	2327	{ 623 624	{ 41	942
Caloric-engine	G. M. and I. N. Hopkins	374,123	Nov. 29	2755	{ 740 741	{ 41	1024
Camera: See Diffraction-camera. Projecting-camera. Photographic camera.							
Camera drop-shutter	L. A. De Ribas	359,715	Mar. 22	1904	483	38	1285
Camera plate-holder	M. P. Warner	372,778	Nov. 8	744	202	41	618
Camera plate-holder for holding negative-paper	T. H. Blair	370,370	Sept. 27	1526	409	40	1345
Camera-shutter	F. K. Betts	361,856	Apr. 26	2111	547	39	416
Camera-shutter	J. J. Fox	366,947	July 19	1638	439	40	326
Camera-shutter. Automatically-operating	W. G. Price	363,967	May 31	2712	703	39	1014
Camera-stand	T. Powers	369,124	Aug. 30	2571	683	40	976
Camera-stand	G. H. Read	355,413	Jan. 4	161	42	38	32
Camera-stands. Folding top for	W. H. Lewis	361,826	Apr. 26	2057	535	39	406
Camera-tripod	W. H. Carpenter	370,240	Sept. 20	1334	{ 356 357	{ 40	1301
Camp-kit	N. Jensen	367,812	Aug. 9	697	{ 188 189	{ 40	591
Can: See Ash-can. Oil or gasoline can. Ash or garbage can. Oiling-can. Creaming-can. Packing-can. Insulated can. Paint-can. Lamp-filling can. Refrigerator dairy-can. Laster's tack-can. Sealed can. Milk-can. Sheet-metal can. Oil-can. Shipping-can.							
Can	D. A. Burdett	368,510	Aug. 16	1703	453	40	791
Can	H. E. Tiepke	374,380	Dec. 6	299	79	41	1103
Can-assembling machine	E. J. Dolan	375,053	Dec. 20	1287	{ 335 336	{ 41	1311
Can-cover clamp	H. Cottrell	373,274	Nov. 15	1501	396	41	765
Can-feeding machine	H. R. Stickney, 2d	358,498	Mar. 1	113	27	38	924
Can-filling apparatus	G. L. Merrill	361,177	Apr. 12	1141	288	39	216
Can-filling machine	J. B. Hodapp	356,122	Jan. 18	1196	{ 317 318	{ 38	245
Can-filling machine	H. R. Stickney, 2d	372,876	Nov. 8	903	{ 243 244	{ 41	645
Can-filling machines. Automatic feeder for	J. E. Hutson and J. M. C. Jones	363,068	May 17	1423	{ 376 377	{ 39	753
Can-heading machine	E. E. Angell and C. B. Kendall	371,912	Oct. 25	1687	437	41	359
Can-holder and drip-pan	J. A. Hard	367,342	July 26	2201	591	40	439
Can-holding device	G. W. Hill	375,158	Dec. 20	1445	378	41	1342
Can machine. Tin	J. W. Hazen and C. F. Merrill	367,978	Aug. 9	936	253	40	638
Can-making machine	E. E. Angell and C. B. Kendall	371,484	Oct. 11	1051	{ 273 274	{ 41	213
Can-making machine	E. J. Dolan	371,493	Oct. 11	1062	{ 277 278 279	{ 41	216
Can-opener	W. J. Hammer	369,108	Aug. 30	2553	678	40	972
Can-opener	M. C. Lilly	375,451	Dec. 27	1829	478	41	1426
Can-opener	J. J. Molony	362,389	May 3	443	123	39	561
Can-opener	W. B. Nutter	373,412	Nov. 15	1718	454	41	805
Can-opener	W. Phillips	361,643	Apr. 19	1790	463	39	351
Can or barrel holder. Fluid	G. K. Ingraham and J. L. Crist	364,351	June 7	196	55	39	1126
Can protector. Milk	J. H. Irwin	370,144	Sept. 20	1208	320	40	1277
Can-stopper	C. Bopp	358,959	Mar. 8	802	283	38	1057
Can-stopper. Automatic	W. H. Thayer	356,432	Jan. 18	1625	426	38	325
Can-stopper. Automatic	W. H. Thayer	361,909	Apr. 26	2184	566	39	430
Can-stopper. Automatic	W. H. Thayer. (Reissue)	10,886	Nov. 29	2814	754	41	1036
Can-stuffing machine	W. R. Drueck	367,027	July 26	1737	468	40	353
Can-testing machine	W. B. Mann	369,539	Sept. 6	309	85	40	1093
Can-testing machine	D. M. Monroe	358,562	Mar. 1	227	52.53	38	946
Can vent-protector	E. Norton	364,665	June 14	639	171	39	1216
Can-washer	S. Roberts	371,366	Oct. 11	891	229	41	182
Cans and bottles. Device for handling	D. D. Brown	370,179	Sept. 20	1259	335	40	1287
Cans. Graduated inspection sash-section for measuring	G. Trubell	371,996	Oct. 25	1804	467	41	381
Cans. Machine for filling	H. R. Stickney, 2d	360,541	Apr. 5	214	53.54	39	42
Cans. Machine for making tin	E. J. Dolan	371,494	Oct. 11	1069	279	41	218
Cans. Machine for washing	A. L. Talley and B. R. Rapp	357,049	Feb. 1	433	115	38	502
Canal-lock	T. Sidensol	368,860	Aug. 23	2191	{ 581 582	{ 40	894
Candies. Machine for casting	C. H. Grebenstein	364,342	June 7	181	50.51	39	1123
Candies, toy confections, &c. Manufacture of	W. E. Coleman	356,450	Jan. 25	1655	434	38	339
Candle. Lamp	F. F. Schmitt	370,562	Sept. 27	1816	483	40	1397
Candlestick	F. W. Jenkins	368,474	Aug. 16	1650	440	40	782
Candlestick. Miner's	D. B. Jones	366,320	July 12	782	211	40	155
Candy and manufacturing the same	G. D. Moffat	356,394	Jan. 18	1571	413	38	315
Candy and process of manufacturing the same	G. D. Moffat. (Reissue)	10,822	Mar. 29	2990	758	38	1488
Candy-furnace and oven combined	E. C. Frost	372,663	Nov. 8	562	153	41	586
Candy in bars or sticks. Manufacture of rock	J. H. Barker	363,195	May 17	1600	420	39	788
Candy. Mold to be used in the manufacture of	W. E. Coleman	371,176	Oct. 11	630	161	41	132

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Candy-pail and show-case. Combined.....	J. Luttet.....	365,346	June 21	1660	434	39	1414
Cane and cigar and cigarette case. Combined.....	G. B. Fowler.....	368,823	Aug. 23	2138	567	40	883
Cane and umbrella. Combined.....	P. Verrier and J. E. Bonnevaux.....	360,544	Apr. 5	221	55, 56	39	43
Cane-crushing mill. Sugar.....	J. H. Man.....	375,679	Dec. 27	2155	{ 560 561 }	{ 41	1486
Cane-handle.....	G. Müller.....	360,814	Apr. 5	586	153	39	110
Cane-stripper.....	T. C. Collins.....	374,777	Dec. 13	866	227	41	1226
Cane. Walking.....	O. H. Byring.....	373,049	Nov. 15	1164	311	41	703
Canister.....	P. Metzger.....	363,664	May 24	2264	587	39	924
Canned food. Apparatus for preparing.....	H. L. Hopper.....	374,909	Dec. 13	1068	279	41	1263
Canning.....	D. E. Ashby.....	363,941	May 31	2663	691	39	1004
Canning-machine.....	D. D. Ranney.....	373,306	Nov. 15	1551	{ 409 410 411 }	{ 41	774
Cannon.....	E. J. Blood.....	374,577	Dec. 13	592	{ 154 155 }	{ 41	1170
Canopy-frame holder.....	C. T. Segar.....	372,570	Nov. 1	420	113	41	550
Canopy. Portable folding.....	G. B. Wirgman.....	363,713	May 24	2341	607	39	939
Canopy-supporting frame.....	A. F. Tracy and J. Winchell.....	368,359	Aug. 16	1478	393	40	749
Cant-hook.....	C. Nygaard.....	374,877	Dec. 13	1011	264	41	1252
Cant-hook.....	C. Nygaard.....	374,878	Dec. 13	1012	265	41	1252
Canvas-stretcher.....	D. G. Smyth.....	373,156	Nov. 15	1327	351	41	733
Cap:							
See Sewer-cap.							
Cap.....	M. Davis.....	361,491	Apr. 19	1567	407	39	308
Cap.....	M. Postman.....	361,717	Apr. 26	1903	493	39	379
Cap.....	J. J. Seldner.....	357,418	Feb. 8	968	255	38	611
Capping, decapping, and crimping implement.....	F. C. Washburn.....	355,362	Jan. 4	96	26	38	20
Capstan.....	J. B. Spooner.....	357,871	Feb. 15	1646	428	38	746
Capsules. Machine for cutting off gelatine.....	F. A. Hubel. (Reissue).....	10,807	Feb. 8	1201	{ 315 316 }	{ 38	655
Car.....	R. H. Burdge.....	370,448	Sept. 27	1643	{ 438 439 }	{ 40	1366
Car and vehicle rail. Combined.....	J. H. and W. Dryer.....	370,862	Oct. 4	166	44	41	33
Car-bolster.....	H. James.....	374,836	Dec. 13	951	248	41	1241
Car-brake.....	A. Argo.....	367,947	Aug. 9	891	242	40	629
Car-brake.....	G. A. Boyden.....	372,890	Nov. 8	919	{ 248 249 }	{ 41	649
Car-brake.....	R. J. Brown.....	363,722	May 24	2354	611	39	941
Car-brake.....	J. Bryan.....	359,665	Mar. 22	1830	465	38	1271
Car-brake.....	S. A. Burns.....	369,159	Aug. 30	2609	693	40	985
Car-brake.....	G. P. Campbell.....	361,576	Apr. 19	1689	436	39	330
Car-brake.....	G. F. Card.....	357,976	Feb. 15	1787	470	38	772
Car-brake.....	M. T. Carson and J. D. Gurganus.....	355,505	Jan. 4	272	72	38	55
Car-brake.....	J. F. Clark.....	361,264	Apr. 19	1264	323	39	252
Car-brake.....	C. K. Corliss.....	365,243	June 21	1501	{ 394 395 }	{ 39	1385
Car-brake.....	B. F. Crow.....	363,319	May 17	1761	461	39	819
Car-brake.....	B. F. Crow.....	364,706	June 14	704	{ 187 188 }	{ 39	1229
Car-brake.....	R. H. Dement.....	366,818	July 19	1469	392	40	294
Car-brake.....	E. D. Dougherty.....	373,446	Nov. 22	1765	468	41	826
Car-brake.....	L. Dubé.....	371,930	Oct. 25	1714	444	41	364
Car-brake.....	J. J. Endres.....	374,044	Nov. 29	2638	707	41	1002
Car-brake.....	A. Faneuff.....	369,847	Sept. 13	741	198	40	1184
Car-brake.....	C. E. Garey.....	367,805	Aug. 9	690	{ 186 187 }	{ 40	589
Car-brake.....	H. M. Glines.....	363,382	May 24	1843	485	39	844
Car-brake.....	J. W. Greer.....	360,803	Apr. 5	572	149	39	108
Car-brake.....	J. Hahn.....	370,190	Sept. 20	1277	340	40	1290
Car-brake.....	H. Hanson.....	364,646	June 14	616	166	39	1212
Car-brake.....	M. Kingman.....	370,018	Sept. 13	1019	269	40	1234
Car-brake.....	A. L. Kirkland.....	356,589	Jan. 25	1847	485	38	375
Car-brake.....	J. C. Larkin.....	368,838	Aug. 23	2160	572	40	888
Car-brake.....	L. P. Lawrence.....	371,604	Oct. 18	1227	320	41	258
Car-brake.....	A. H. Marden.....	374,798	Dec. 13	898	235	41	1231
Car-brake.....	A. P. Massey.....	368,347	Aug. 16	1461	389	40	746
Car-brake.....	M. A. McCarron.....	366,418	July 12	900	243	40	178
Car-brake.....	T. J. Megown.....	365,839	July 5	111	30	40	23
Car-brake.....	E. H. Meigs.....	355,654	Jan. 4	486	130	38	95
Car-brake.....	L. Messier.....	369,461	Sept. 6	207	58	40	1072
Car-brake.....	J. A. Neichter.....	362,773	May 10	1018	{ 276 277 }	{ 39	669
Car-brake.....	R. Randolph.....	356,790	Feb. 1	65	19	38	435
Car-brake.....	P. W. Reinshagen.....	359,179	Mar. 8	1081	{ 281 282 }	{ 38	1110
Car-brake.....	J. C. Schumacher.....	360,054	Mar. 29	2461	627	38	1393
Car-brake.....	A. A. St. Clair.....	358,948	Mar. 8	787	198	38	1054
Car-brake.....	L. A. Stahl and J. T. Wooster.....	365,708	June 28	2208	577	39	1530
Car-brake.....	J. D. Stovall.....	370,500	Sept. 27	1726	458	40	1381
Car-brake.....	F. Tentschert.....	370,104	Sept. 20	1147	304	40	1265
Car-brake.....	E. B. Warren.....	369,897	Sept. 13	820	218	40	1198
Car-brake.....	H. R. Wolfe.....	357,257	Feb. 8	755	{ 196 197 }	{ 38	570
Car-brake.....	L. J. Zimmermann.....	367,573	Aug. 2	318	91, 92	40	512
Car brake and starter.....	A. V. Dillenbeck.....	370,935	Oct. 4	293	72	41	58
Car brake and starter.....	C. Forbes.....	371,883	Oct. 18	1646	425	41	342
Car brake and starter.....	E. Giroux.....	359,386	Mar. 15	1392	356	38	1173
Car brake and starter.....	D. Goff.....	368,581	Aug. 23	1799	479	40	820
Car brake and starter.....	H. Hansen.....	359,152	Mar. 8	1051	274	38	1105
Car brake and starter.....	T. Miller.....	359,880	Mar. 22	2175	548	38	1333
Car brake and starter.....	H. H. Olcott.....	374,619	Dec. 13	650	170	41	1182
Car brake and starter.....	E. J. F. Quirin.....	374,084	Nov. 29	2703	726	41	1015
Car brake and starter.....	T. Sanders.....	366,430	July 12	914	248	40	182

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car brake and starter	G. B. Siccardi	364,310	June 7	145	41	39	1116
Car brake and starter	A. M. Vereker and S. M. Yeates.	373,624	Nov. 22	2046	{ 544 545 }	{ 41 41 }	879
Car-brake. Automatic	E. Beals	366,448	July 12	937	255	40	186
Car-brake. Automatic	W. O. Cooke	356,622	Jan. 25	1905	500	38	386
Car-brake. Automatic	W. F. Cummings	358,547	Mar. 1	197	46	38	939
Car-brake. Automatic	J. Y. Davis	367,791	Aug. 9	671	181	40	586
Car-brake. Automatic	R. E. Linham and R. M. Agnew.	359,874	Mar. 22	2163	546	38	1331
Car-brake. Automatic	A. P. Massey	358,867	Mar. 8	675	167	38	1032
Car-brake. Automatic	G. H. Poor	356,231	Jan. 18	1342	{ 353 354 }	{ 38 38 }	271
Car-brake. Automatic	C. Selden	361,089	Apr. 12	1000	253	39	191
Car-brake. Automatic	O. P. Smith	366,039	July 5	400	108	40	75
Car-brake. Automatic	J. S. Sterrett	360,062	Mar. 29	2479	630	38	1396
Car-brake. Automatic	J. S. Sterrett	371,799	Oct. 18	1514	390	41	316
Car-brake. Automatic	W. B. Turner	367,077	July 26	1810	{ 488 489 }	{ 40 40 }	367
Car-brake. Automatic	R. J. Wilson	363,310	May 17	1747	{ 457 458 }	{ 39 39 }	816
Car-brake. Automatic	J. P. Wood	375,407	Dec. 27	1766	463	41	1414
Car-brake. Electric	W. M. Schlesinger	370,894	Oct. 4	223	57	41	43
Car-brake. Electric	E. A. Sperry	360,060	Mar. 29	2469	629	38	1394
Car-brake. Electro-magnetic	J. Herrington	367,627	Aug. 2	393	110	40	526
Car-brake. Fluid-pressure	G. A. Boyden	356,025	Jan. 11	1038	273	38	210
Car-brake. Fluid-pressure	G. A. Boyden	356,026	Jan. 11	1040	{ 273 274 }	{ 38 38 }	210
Car-brake. Fluid-pressure	G. A. Boyden	356,057	Jan. 11	1085	285	38	218
Car-brake lever	J. S. Whitworth	358,907	Mar. 8	736	182	38	1044
Car brake. Railway	J. L. Brown	357,455	Feb. 8	1021	271	38	620
Car brake. Railway	G. F. Card	369,918	Sept. 13	852	{ 225 226 }	{ 40 40 }	1205
Car brake. Railway	W. E. Maultby	358,868	Mar. 8	676	168	38	1032
Car brake. Street	C. H. B. Burris	367,699	Aug. 2	515	{ 141 142 }	{ 40 40 }	548
Car brake. Street	G. Troller	363,777	May 24	2424	629	39	955
Car-brakes. Operating	G. A. Boyden	373,005	Nov. 8	1092	{ 291 292 }	{ 41 41 }	680
Car-brakes. Slack-adjuster for	E. Corson and O. C. Crane	358,337	Feb. 22	2297	606	38	873
Car-brakes. Slack-adjuster for	E. Corson and O. C. Crane	360,400	Mar. 29	2986	757	38	1488
Car. Cable-railway	T. Breen	364,393	June 7	252	71, 72	39	1137
Car. Cable-railway	H. W. McNeill	358,685	Mar. 1	394	95	38	977
Car. Cable-railway	H. W. McNeill	371,694	Oct. 18	1356	351	41	283
Car-chain	G. Brooks	357,570	Feb. 15	1211	319	38	666
Car. Coal-carrying	W. R. Jenkins, Jr.	370,626	Sept. 27	1918	509	40	1417
Car. Combined chair and sleeping	E. B. Goelet	363,891	May 31	2586	672	39	991
Car. Combined parlor and sleeping	W. J. Brashears	364,750	June 14	766	{ 204 205 }	{ 39 39 }	1240
Car. Combined parlor and sleeping	R. J. Montgomery	370,882	Oct. 4	193	51, 52	41	38
Car conduit. Underground cable	D. Hagerty	372,749	Nov. 8	686	{ 189 190 }	{ 41 41 }	609
Car. Convertible freight	W. F. Mossop	357,937	Feb. 15	1733	453	38	762
Car-coupler	R. R. Asbury	367,738	Aug. 2	584	159	40	561
Car-coupling	W. L. Albright	356,972	Feb. 1	320	87	38	482
Car-coupling	S. A. Alexander	369,382	Sept. 6	102	31	40	1053
Car-coupling	T. Andress	361,343	Apr. 19	1369	352	39	270
Car-coupling	J. S. Andrews	358,826	Mar. 8	603	149	38	1021
Car-coupling	J. S. Andrews	366,642	July 19	1231	329	40	251
Car-coupling	T. Armat	361,664	Apr. 26	1833	475	39	367
Car-coupling	H. L. Arnold	372,283	Nov. 1	1	1	41	471
Car-coupling	R. R. Asbury	373,042	Nov. 15	1153	309	41	701
Car-coupling	T. G. Ashford	369,384	Sept. 6	104	32	40	1053
Car-coupling	J. M. and J. K. Atwood	358,139	Feb. 22	2033	535	38	821
Car-coupling	J. R. Avery	367,128	July 26	1886	511	40	380
Car-coupling	J. R. Avery	369,578	Sept. 6	364	101	40	1104
Car-coupling	M. D. Avery	366,710	July 19	1325	355	40	268
Car-coupling	A. S. Bailey	372,286	Nov. 1	4	1	41	471
Car-coupling	J. W. Baker and G. A. Prescott	355,909	Jan. 11	875	229	38	177
Car-coupling	J. W. Baker and G. A. Prescott	367,948	Aug. 9	892	242	40	629
Car-coupling	J. B. Batt	363,944	May 31	2667	692	39	1005
Car-coupling	V. S. Bekofsky	358,641	Mar. 1	328	79	38	964
Car-coupling	B. M. Bennett	370,115	Sept. 20	1165	308	40	1267
Car-coupling	F. Betts	355,913	Jan. 11	880	230	38	179
Car-coupling	R. Bigney	357,451	Feb. 8	1016	269	38	619
Car-coupling	J. J. Billingsley	372,111	Oct. 25	1988	510	41	413
Car-coupling	T. Bolt	368,320	Aug. 16	1428	378	40	739
Car-coupling	J. A. Bosch	367,586	Aug. 2	336	96	40	516
Car-coupling	W. H. Bovee	368,184	Aug. 16	1226	328	40	700
Car-coupling	D. E. Bowling	375,438	Dec. 27	1809	474	41	1422
Car-coupling	W. Brendon	357,266	Feb. 8	767	199	38	572
Car-coupling	G. H. Brooks	369,685	Sept. 13	519	144	40	1143
Car-coupling	P. Brown	363,112	May 17	1486	393	39	764
Car-coupling	P. Brown	366,712	July 19	1330	356	40	269
Car-coupling	P. Brown and D. E. Doherty	364,798	June 14	860	225	39	1255
Car-coupling	M. Burt	360,414	Apr. 5	16	4, 5	39	5
Car-coupling	J. Y. Burwell and F. Mammel	368,513	Aug. 16	1706	455	40	792
Car-coupling	J. B. Butts	356,569	Jan. 25	1823	477	38	370
Car-coupling	J. B. Butts	371,123	Oct. 4	557	142	41	110
Car-coupling	S. Byrne	372,893	Nov. 8	926	250	41	650
Car-coupling	J. K. Bywaters	370,006	Sept. 13	999	263	40	1230
Car-coupling	D. J. Caldwell	359,710	Mar. 22	1896	482	38	1284
Car-coupling	J. Cameron	366,713	July 19	1332	356	40	269
Car-coupling	P. Campbell	373,336	Nov. 15	1596	421	41	783
Car-coupling	W. E. Caton	363,589	May 24	2153	558	39	904
Car-coupling	L. Champagne	363,800	May 31	2462	639	39	968

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car-coupling	J. L. Cheshire	362,425	May 3	495	140	39	571
Car-coupling	C. W. Chisholm	369,502	Sept. 6	252	71	40	1082
Car-coupling	R. Clark	360,657	Apr. 5	377	96	39	72
Car-coupling	J. H. Conn	369,775	Sept. 13	632	170	40	1163
Car-coupling	C. E. Conrad	364,902	June 14	1009	{ 264 265 }	{ 39 39 }	{ 1284 1284 }
Car-coupling	A. B. Cooley	355,864	Jan. 11	800	210	38	163
Car-coupling	S. Cooley	372,895	Nov. 8	928	250	41	650
Car-coupling	S. R. Copeland	365,366	June 28	1689	440	39	1432
Car-coupling	J. Coup	361,140	Apr. 12	1079	{ 272 273 }	{ 39 39 }	{ 205 205 }
Car-coupling	J. Coup	361,141	Apr. 12	1082	273	39	206
Car-coupling	J. Coup	361,209	Apr. 12	1189	{ 301 302 }	{ 39 39 }	{ 225 225 }
Car-coupling	D. R. Covenhoven	365,330	June 21	1636	427	39	1409
Car-coupling	H. S. and I. Covert	369,232	Aug. 30	2699	717	40	1003
Car-coupling	J. H. Davis	362,253	May 3	262	74	39	524
Car-coupling	J. H. Davis	372,459	Nov. 1	260	71	41	519
Car-coupling	E. A. De May	364,494	June 7	410	111	39	1166
Car-coupling	E. A. De May	367,197	July 26	1977	534	40	398
Car-coupling	E. A. De May	375,272	Dec. 20	1587	416	41	1371
Car-coupling	A. A. Dial	355,979	Jan. 11	984	258	38	200
Car-coupling	A. O. Dietze	359,776	Mar. 22	2009	508	38	1302
Car-coupling	A. Diller and J. W. White	374,783	Dec. 13	875	230	41	1227
Car-coupling	J. W. Dillon	374,459	Dec. 6	417	108	41	1125
Car-coupling	W. S. Doan	358,190	Feb. 22	2109	557	38	836
Car-coupling	R. C. Dobbs	356,626	Jan. 25	1911	501	38	387
Car-coupling	N. T. Dundore, H. H. Sechrist, and I. M. Brubaker.	359,963	Mar. 22	2302	579	38	1357
Car-coupling	J. H. Dunn	365,172	June 21	1411	372	39	1366
Car-coupling	P. F. Duross	358,110	Feb. 22	1984	524	38	813
Car-coupling	N. Edwards	367,798	Aug. 9	681	184	40	588
Car-coupling	R. J. Edwards	363,614	May 24	2196	569	39	912
Car-coupling	A. J. Elliott	359,599	Mar. 22	1745	444	38	1255
Car-coupling	W. J. Evans	368,914	Aug. 23	2270	603	40	909
Car-coupling	T. Farmer	364,914	June 14	1024	268	39	1287
Car-coupling	T. Farmer, J. A. F. Bovard, and F. D. Moon.	372,610	Nov. 1	479	130	41	560
Car-coupling	P. Farwell	365,738	June 28	2263	589	39	1540
Car-coupling	M. Fennell	356,932	Feb. 1	260	72	38	469
Car-coupling	G. J. Ferguson	356,111	Jan. 18	1181	313	38	242
Car-coupling	G. J. Ferguson	361,867	Apr. 26	2125	551	39	419
Car-coupling	J. H. Flett	364,237	June 7	53	16	39	1099
Car-coupling	A. G. W. Foster	364,810	June 14	877	231	39	1259
Car-coupling	J. A. Fouts	368,709	Aug. 23	1979	526	40	854
Car-coupling	F. A. Fox	367,613	Aug. 2	372	105	40	523
Car-coupling	J. A. Frazier	365,807	July 5	69	20	40	15
Car-coupling	L. K. Fuller	372,462	Nov. 1	266	73	41	521
Car-coupling	S. B. Fyler	359,253	Mar. 15	1193	311	38	1138
Car-coupling	H. Gallager	364,007	May 31	2761	716	39	1024
Car-coupling	S. P. Gaver	372,371	Nov. 1	130	39	41	495
Car-coupling	G. W. Giles	357,477	Feb. 8	1055	279	38	627
Car-coupling	I. N. Gillock	356,685	Jan. 25	1979	520	38	401
Car-coupling	J. W. Glines	371,058	Oct. 4	468	117	41	92
Car-coupling	W. L. Gordon	375,152	Dec. 20	1435	375	41	1340
Car-coupling	S. F. Green	357,957	Feb. 15	1756	458	38	766
Car-coupling	G. Greenwood	371,682	Oct. 18	1340	347	41	280
Car-coupling	H. Hadden	370,695	Sept. 27	2021	538	40	1436
Car-coupling	J. Haish	372,906	Nov. 8	940	254	41	653
Car-coupling	A. N. Hall	363,385	May 24	1848	486	39	844
Car-coupling	W. F. Hall	356,763	Feb. 1	29	9	38	429
Car-coupling	S. Haltom	357,555	Feb. 8	1182	311	38	651
Car-coupling	D. J. Harding	364,104	May 31	2892	750	39	1050
Car-coupling	D. J. Harding	375,322	Dec. 20	1655	434	41	1384
Car-coupling	J. Harding, Jr.	370,476	Sept. 27	1691	449	40	1375
Car-coupling	F. Hardy	357,924	Feb. 15	1712	447	38	758
Car-coupling	T. W. Harrison	374,870	Dec. 13	1003	262	41	1250
Car-coupling	J. Hart and T. E. Gaghan	355,524	Jan. 4	296	79	38	59
Car-coupling	M. Hartz	360,687	Apr. 5	411	{ 105 106 }	{ 39 39 }	{ 77 77 }
Car-coupling	C. C. Haskin	359,785	Mar. 22	2022	512	38	1305
Car-coupling	C. E. Haupt	369,935	Sept. 13	884	234	40	1210
Car-coupling	F. Heinz	364,513	June 7	432	116	39	1169
Car-coupling	E. E. Herrinton	363,636	May 24	2228	577	39	917
Car-coupling	F. M. Hewett	375,157	Dec. 20	1443	377	41	1342
Car-coupling	M. J. Hewlett	360,693	Apr. 5	420	108	39	79
Car-coupling	D. W. Hickman	360,880	Apr. 12	690	181	39	135
Car-coupling	G. B. Hiestand	361,872	Apr. 26	2135	553	39	420
Car-coupling	J. Hill	359,075	Mar. 8	953	243	38	1085
Car-coupling	J. A. Hinson	368,337	Aug. 16	1449	384	40	743
Car-coupling	O. P. Hix	358,267	Feb. 22	2205	581	38	854
Car-coupling	O. P. Hix	367,396	Aug. 2	56	14	40	461
Car-coupling	S. G. Howe	369,523	Sept. 6	285	79, 80	40	1088
Car-coupling	A. W. Hughey	372,979	Nov. 8	1048	281	41	672
Car-coupling	H. R. Hunt	370,062	Sept. 20	1086	286	40	1254
Car-coupling	M. M. Hunt	364,256	June 7	75	22	39	1103
Car-coupling	R. W. Hunter	372,980	Nov. 8	1049	281	41	672
Car-coupling	G. W. James	364,114	May 31	2904	753	39	1052
Car-coupling	J. Jennings	362,090	May 3	54	16	39	483
Car-coupling	J. Jennings	362,091	May 3	55	17	39	484
Car-coupling	J. C. Johnston	355,612	Jan. 4	412	113	38	82
Car-coupling	C. M. Jones	371,073	Oct. 4	486	122	41	96
Car-coupling	H. P. Jones	372,268	Oct. 25	2222	569	41	457

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Car-coupling	R. Jones	361,823	Apr. 26	2052	534	39	406
Car-coupling	R. Jones	368,214	Aug. 16	1266	337	40	707
Car-coupling	J. D. Keith	374,257	Dec. 6	123	32	41	1071
Car-coupling	J. J. Kennedy	356,320	Jan. 18	1461	385	38	295
Car-coupling	J. J. King and W. J. Worley	355,401	Jan. 4	143	38	38	30
Car-coupling	T. Kirby and A. Singer	373,987	Nov. 29	2561	688	41	987
Car-coupling	I. Kling	361,165	Apr. 12	1124	284	39	213
Car-coupling	I. Kling	370,343	Sept. 20	1476	396	40	1328
Car-coupling	C. H. Knowlton	368,155	Aug. 9	1178	315	40	683
Car-coupling	C. H. Knowlton	369,291	Aug. 30	2783	742	40	1019
Car-coupling	G. Kramer	358,280	Feb. 22	2226	587	38	859
Car-coupling	J. Kramer	366,779	July 19	1419	380	40	284
Car-coupling	D. E. La Lone	367,216	July 26	2006	542	40	403
Car-coupling	W. A. Ladd	364,421	June 7	299	82	39	1145
Car-coupling	B. F. Laird	357,011	Feb. 1	374	100	38	492
Car-coupling	E. Laline	362,221	May 3	227	66	39	517
Car-coupling	E. M. Lane	371,953	Oct. 25	1743	452	41	369
Car-coupling	D. C. Lawyer	364,657	June 14	628	169	39	1215
Car-coupling	H. Lehr and C. Verch	358,617	Mar. 1	299	71	38	959
Car-coupling	W. S. Lennon	363,474	May 24	1984	517 518	39	870
Car-coupling	G. W. Lewton	369,066	Aug. 30	2492	661	40	961
Car-coupling	S. D. Locke	358,465	Mar. 1	60	15, 16	38	914
Car-coupling	O. E. Long	365,139	June 21	1370	362	39	1358
Car-coupling	W. C. Long	372,545	Nov. 1	385	104	41	544
Car-coupling	M. J. Lorraine and C. T. Aubin	369,195	Aug. 30	2655	706	40	994
Car-coupling	C. Lunt	363,341	May 17	1792	469	39	825
Car-coupling	W. A. Macomb	367,819	Aug. 9	705	191	40	592
Car-coupling	M. Maher	364,659	June 14	630	170	39	1215
Car-coupling	H. E. Marchand	366,851	July 19	1517	406	40	303
Car-coupling	T. Maroney	366,018	July 5	375	101	40	70
Car-coupling	J. N. Martin and W. H. Harris	372,037	Oct. 25	1878	484	41	393
Car-coupling	G. R. Mavis	359,024	Mar. 8	892	227	38	1073
Car-coupling	E. McCloskey	356,204	Jan. 18	1299	343	38	263
Car-coupling	W. McCubbin	372,163	Oct. 25	2063	528	41	427
Car-coupling	D. H. McFalls and E. W. Baxter	370,800	Oct. 4	68	18	41	16
Car-coupling	T. L. McKeen	361,171	Apr. 12	1132	286	39	215
Car-coupling	F. T. McKenney	361,437	Apr. 19	1502	387	39	295
Car-coupling	F. McMahon	369,949	Sept. 13	904	241	40	1213
Car-coupling	W. Metcalf	365,270	June 21	1549	404	39	1393
Car-coupling	A. J. Miller	364,431	June 7	314	86	39	1148
Car-coupling	J. D. Miller	358,561	Mar. 1	226	52	38	945
Car-coupling	A. E. Mitchell	374,989	Dec. 20	1201	312 313	41	1296
Car-coupling	J. N. Moore and A. L. Miner	360,719	Apr. 5	461	117	39	85
Car-coupling	H. M. Morris	364,598	June 7	554	149	39	1192
Car-coupling	J. Mullen	357,496	Feb. 8	1079	285	38	632
Car-coupling	L. D. Murphy	371,618	Oct. 18	1246	324	41	261
Car-coupling	N. Muslar	368,777	Aug. 23	2076	550	40	871
Car-coupling	A. S. Neal	359,092	Mar. 8	974	249	38	1090
Car-coupling	J. W. Newton	363,297	May 17	1731	453	39	813
Car-coupling	A. Nutting	355,657	Jan. 4	489	130	38	96
Car-coupling	T. B. Nutting	372,082	Oct. 25	1952	503	41	405
Car-coupling	S. J. O'Neil	371,783	Oct. 18	1488	384	41	311
Car-coupling	A. Ormsby	371,966	Oct. 25	1766	457 458	41	374
Car-coupling	H. L. Peck	368,352	Aug. 16	1467	391	40	747
Car-coupling	N. and R. Petersen	364,541	June 7	486	131	39	1179
Car-coupling	M. Phillips	370,492	Sept. 27	1717	455	40	1379
Car-coupling	W. H. Phillips	365,149	June 21	1380	365	39	1360
Car-coupling	J. T. Pope	357,785	Feb. 15	1536	400	38	725
Car-coupling	J. Potter, J. W. and W. M. Hess	371,623	Oct. 18	1252	325	41	262
Car-coupling	K. L. Power	366,873	July 19	1543	414	40	307
Car-coupling	A. Preston	356,783	Feb. 1	53	16	38	433
Car-coupling	J. L. Purkey	363,847	May 31	2530	658	39	981
Car-coupling	J. Rancevau	359,813	Mar. 22	2060	522	38	1313
Car-coupling	J. Rawles	362,996	May 17	1320	350	39	732
Car-coupling	J. C. Reed	374,087	Nov. 29	2710	727	41	1017
Car-coupling	A. H. Reynolds	372,705	Nov. 8	621	169	41	598
Car-coupling	E. M. Reynolds	375,386	Dec. 27	1740	457	41	1409
Car-coupling	J. A. Richard	356,601	Jan. 25	1863	490	38	379
Car-coupling	J. A. Richard	361,184	Apr. 12	1149	290	39	218
Car-coupling	P. Riley	367,549	Aug. 2	281	79	40	504
Car-coupling	J. D. Ripson	356,663	Jan. 25	1956	513	38	396
Car-coupling	W. E. Roberts	357,504	Feb. 8	1092	288	38	634
Car-coupling	W. T. Rodgers	361,375	Apr. 19	1417	366	39	279
Car-coupling	F. Roop	373,947	Nov. 29	2504	672	41	975
Car-coupling	L. and D. Rosenthal	368,786	Aug. 23	2087	553	40	873
Car-coupling	J. F. and W. J. Rowley	359,577	Mar. 15	1686	430	38	1229
Car-coupling	S. S. Rundell and L. J. Doggett	373,854	Nov. 29	2372	638	41	950
Car-coupling	W. Rutherford	364,376	June 7	230	65	39	1132
Car-coupling	L. B. Sampson	371,368	Oct. 11	894	229 230	41	182
Car-coupling	M. M. Sanford	356,506	Jan. 25	1734	452	38	353
Car-coupling	W. L. Schlager	375,460	Dec. 27	1837	481	41	1428
Car-coupling	D. Schofield	369,965	Sept. 13	928	246	40	1218
Car-coupling	T. Schweitzer	364,679	June 14	656	176	39	1220
Car-coupling	J. A. Scott and T. Oliver	355,346	Jan. 4	77	21	38	16
Car-coupling	L. Self	363,551	May 24	2102	545	39	893
Car-coupling	G. J. Selk	373,804	Nov. 22	2300	615	41	928
Car-coupling	D. H. Sherman	365,278	June 21	1563	407	39	1395
Car-coupling	J. Shill	355,567	Jan. 4	356	95	38	72
Car-coupling	E. D. Shobe	370,092	Sept. 20	1124	298	40	1261

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Car-coupling	A. Sime and W. Moore	372,390	Nov. 1	160	46	41	500
Car-coupling	J. Skinner	364,867	June 14	958	{ 252 253 }	{ 39 }	1275
Car-coupling	C. H. Slaton	365,641	June 28	2106	549	39	1512
Car-coupling	G. W. Smillie	361,459	Apr. 19	1526	395	39	300
Car-coupling	G. W. Smillie	361,460	Apr. 19	1528	396	39	301
Car-coupling	W. T. Smith	364,683	June 14	663	177	39	1222
Car-coupling	C. Snyder	357,562	Feb. 8	1191	313	38	653
Car-coupling	O. E. Snyder	370,825	Oct. 4	99	27	41	21
Car-coupling	T. H. and E. V. Snyder	356,428	Jan. 18	1620	425	38	324
Car-coupling	N. Solcer	363,303	May 17	1739	455	39	815
Car-coupling	J. C. Souleyret	369,749	Sept. 13	594	161	40	1156
Car-coupling	S. H. Springer	360,926	Apr. 12	750	197	39	146
Car-coupling	N. E. Springsteen	363,262	May 17	1682	440	39	804
Car-coupling	R. Steel	371,861	Oct. 18	1609	416	41	335
Car-coupling	W. O. Stetler and J. W. Klingler	359,904	Mar. 22	2210	556	38	1339
Car-coupling	D. G. Stone	356,969	Feb. 1	316	85, 86	38	481
Car-coupling	J. D. Stovall and W. C. Whittington	370,499	Sept. 27	1725	458	40	1381
Car-coupling	U. N. Strickler	368,738	Aug. 23	2024	537	40	862
Car-coupling	S. L. Stuver	368,792	Aug. 23	2096	555	40	875
Car-coupling	R. S. Sumner	357,510	Feb. 8	1098	239	38	635
Car-coupling	W. D. Swart	363,860	May 31	2548	662	39	984
Car-coupling	B. W. Sweet	355,356	Jan. 4	90	24	38	19
Car-coupling	B. W. Sweet	369,369	Sept. 6	85	26	40	1050
Car-coupling	A. Z. Swingle	359,647	Mar. 22	1807	459	38	1267
Car-coupling	E. F. Taylor	375,225	Dec. 20	1526	401	41	1360
Car-coupling	M. R. Thurber and R. B. Brockway	363,490	May 24	2012	525	39	877
Car-coupling	W. H. Tibbits	371,392	Oct. 11	934	240	41	189
Car-coupling	F. Tiedt, Sr	374,717	Dec. 13	782	{ 205 206 }	{ 41 }	1209
Car-coupling	L. Timmins	365,415	June 28	1767	458	39	1446
Car-coupling	J. Timms	373,422	Nov. 15	1734	457	41	808
Car-coupling	J. Tocin	374,763	Dec. 13	846	222	41	1221
Car-coupling	S. Trowbridge	375,399	Dec. 27	1756	460	41	1412
Car-coupling	S. Truax	360,831	Apr. 5	614	161	39	115
Car-coupling	S. and E. H. Truax	360,832	Apr. 5	616	162	39	115
Car-coupling	J. Tyzick	362,126	May 3	103	32	39	493
Car-coupling	W. H. Van Buskirk	375,661	Dec. 27	2127	552	41	1481
Car-coupling	D. L. Vess	364,874	June 14	970	255	39	1276
Car-coupling	B. F. Warren	363,783	May 24	2435	631	39	957
Car-coupling	C. F. H. Weisse	369,269	Aug. 30	2750	733	40	1013
Car-coupling	T. Welch	373,210	Nov. 15	1415	373	41	749
Car-coupling	S. Wells	359,481	Mar. 15	1526	390	38	1200
Car-coupling	W. H. Wellstead	363,868	May 31	2558	664	39	986
Car-coupling	F. A. Westbrook and W. S. Cook	362,408	May 3	467	129	39	566
Car-coupling	F. A. Westbrook and W. S. Cook	369,975	Sept. 13	949	251	40	1221
Car-coupling	F. A. Westbrook and W. S. Cook	371,289	Oct. 11	786	201	41	162
Car-coupling	J. Wilhelm	368,865	Aug. 23	2196	584	40	896
Car-coupling	J. A. Williamson, Jr.	360,546	Apr. 5	225	56, 57	39	44
Car-coupling	D. Y. Wilson	363,784	May 24	2436	631	39	957
Car-coupling	D. Y. Wilson	369,576	Sept. 6	361	{ 100 101 }	{ 40 }	1103
Car-coupling	D. Y. Wilson	372,350	Nov. 1	97	28, 29	41	490
Car-coupling	G. W. Wilson	367,944	Aug. 9	887	241	40	628
Car-coupling	J. B. Wilson	361,104	Apr. 12	1020	257	39	195
Car-coupling	J. H. Wiseman	373,040	Nov. 8	1149	307	41	691
Car-coupling	R. E. Woods	358,182	Feb. 22	2099	554	38	834
Car-coupling	W. D. Woodward	366,990	July 19	1690	{ 454 455 }	{ 40 }	336
Car-coupling	W. Wright	365,035	June 14	1200	316	39	1317
Car-coupling	A. O. Yeatman	361,740	Apr. 26	1932	501	39	384
Car-coupling	M. R. Yeomans	358,421	Feb. 22	2411	641	38	895
Car-coupling	J. D. Young	355,903	Jan. 11	868	{ 227 228 }	{ 38 }	176
Car-coupling	S. A. Young	374,030	Nov. 29	2617	702	41	998
Car-coupling	F. Zedler	359,047	Mar. 8	920	234	38	1078
Car-coupling attachment	S. D. Smith	374,714	Dec. 13	780	{ 204 205 }	{ 41 }	1208
Car-coupling. Automatic	L. W. Layton	363,832	May 31	2508	651	39	976
Car-couplings. Pin-support and link-adjuster for	A. B. Ewing	370,184	Sept. 20	1266	336	40	1288
Car-door	G. J. Ferguson	356,307	Jan. 18	1446	380	38	292
Car-door	G. J. Ferguson	356,308	Jan. 18	1447	380	38	292
Car-door	J. W. Peters	359,281	Mar. 15	1233	320	38	1145
Car-door	T. Z. Roraback	370,712	Sept. 27	2043	543	40	1440
Car-door fastener	E. F. Hardin	370,699	Sept. 27	2025	539	40	1436
Car-door fastener and spark-arrester. Box	H. C. Lynch. (Reissue)	10,855	Aug. 9	1210	323	40	689
Car-door fastener. Freight	W. L. Benton	355,963	Jan. 11	960	251	38	194
Car-door fastening	C. C. Wrenshall	363,935	May 31	2655	{ 689 690 }	{ 39 }	1002
Car door. Freight	J. B. Batt	372,105	Oct. 25	1979	508	41	411
Car door. Freight	F. G. Susemihl	370,502	Sept. 27	1729	459	40	1381
Car door. Grain	W. McGuire	375,499	Dec. 27	1887	494	41	1438
Car door. Grain	W. T. Spillane	370,566	Sept. 27	1820	485	40	1398
Car draw-bar	I. O. Phillips	363,539	May 24	2086	540	39	890
Car. Dump	L. E. Truesdell	368,863	Aug. 23	2195	583	40	895
Car. Dumping	A. C. M. Anguin	363,718	May 24	1226	326	39	940
Car. Dumping	B. F. Bean	366,295	July 12	743	202	40	148
Car. Dumping	G. E. Blaine	366,917	July 19	1594	{ 426 427 }	{ 40 }	318
Car. Dumping	J. W. Davis	374,588	Dec. 13	605	158	41	1172
Car. Dumping	W. L. Davis	369,102	Aug. 30	2516	676	40	971
Car. Dumping	F. Peteler	370,651	Sept. 27	1949	516	40	1423
Car. Dumping	T. Rodger	374,006	Nov. 29	2584	{ 694 695 }	{ 41 }	992

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car. Dumping.....	J. J. Souder	371,224	Oct. 11	696	{ 178 179	{ 41	146
Car. Dumping.....	G. F. Whitman	368,038	Aug. 9	1017	{ 274 275	{ 40	653
Car. Dumping.....	L. J. Woodhead	364,618	June 7	573	154	39	1195
Car. Express.....	P. D. Van Deventer	375,232	Dec. 20	1534	403	41	1361
Car fare-boxes. Conveyer for street.....	G. R. Brownrigg	359,664	Mar. 22	1829	464	38	1271
Car-fender.....	G. W. Elliott.....	360,516	Apr. 5	183	45	39	36
Car-frame.....	P. Matthews.....	372,548	Nov. 1	389	105	41	544
Car frame and truck.....	G. M. Brill.....	365,669	June 28	2154	{ 561 562	{ 39	1520
Car. Freight.....	J. W. and G. H. Aregood.....	369,088	Aug. 30	2526	670	40	967
Car. Freight.....	A. O. Baldwin	370,720	Sept. 27	2062	{ 546 547	{ 40	1443
Car. Freight.....	R. B. Campbell and F. E. House.....	365,461	June 28	1839	478	39	1460
Car. Hand.....	S. Arcus.....	355,962	Jan. 11	959	251	38	194
Car. Hand.....	R. G. Rombauer	366,882	July 19	1555	417	40	311
Car head-rest and table. Combined.....	B. C. Donahue	366,766	July 19	1400	375	40	282
Car-heater.....	J. L. Bangley.....	367,693	Aug. 2	507	139	40	546
Car-heater.....	W. Brown.....	370,853	Oct. 4	150	40. 41	41	30
Car-heater.....	R. B. Cuthbert	374,522	Dec. 6	503	131	41	1143
Car-heater.....	M. B. Derrick	370,049	Sept. 20	1066	282	40	1250
Car-heater.....	W. C. Dunn	359,206	Mar. 8	1122	292	38	1117
Car-heater.....	W. C. Dunn	365,977	July 5	313	83	40	59
Car-heater.....	B. Goldsmith	371,059	Oct. 4	469	117	41	92
Car-heater.....	P. J. Gurnee.....	367,711	Aug. 2	548	150	40	554
Car-heater.....	J. S. Hagerty.....	362,214	May 3	2345	609	39	515
Car-heater.....	G. F. Higgins.....	373,185	Nov. 15	1373	364	41	741
Car-heater.....	C. Hofstetter, Jr	368,211	Aug. 16	1263	337	40	707
Car-heater.....	W. L. Horne	372,071	Oct. 25	1932	498	41	402
Car-heater.....	J. H. Mac El'Rey	372,478	Nov. 1	285	79	41	525
Car-heater.....	R. B. Owen	372,275	Oct. 25	2230	571	41	459
Car-heater.....	W. P. Patton	368,488	Aug. 16	1667	{ 444 445	{ 40	785
Car-heater.....	J. R. Pearce	372,169	Oct. 25	2071	530	41	428
Car-heater.....	A. Putnam, Jr.....	370,085	Sept. 20	1115	296	40	1259
Car-heater.....	C. M. Smith	366,517	July 12	1039	282	40	206
Car-heater.....	J. H. and S. W. Snyder.....	366,040	July 5	401	109	40	76
Car-heater.....	J. M. Thayer	361,469	Apr. 19	1542	399	39	303
Car-heater.....	J. Tyler	374,020	Nov. 29	2602	698	41	995
Car-heater.....	M. Wanner	374,766	Dec. 13	850	223	41	1222
Car-heater.....	H. G. Wilson	372,779	Nov. 8	745	202	41	619
Car heater and ventilator.....	T. Saunders	372,989	Nov. 8	1061	283	41	675
Car heater. Railway.....	W. C. Baker.....	374,336	Dec. 6	236	63	41	1091
Car heater. Railway.....	W. W. Whitcomb	373,626	Nov. 22	2051	546	41	879
Car-heater. Safety.....	H. C. Dennis	371,178	Oct. 11	633	162	41	133
Car heater. Street.....	J. L. Brink	362,928	May 17	215	63. 64	39	715
Car heaters. Safety attachment for railway.....	E. C. Rowe	374,007	Nov. 29	2585	695	41	992
Car-heaters. Stove-box for.....	J. W. Fowler.....	366,087	July 5	457	124	40	86
Car heating and cooling device.....	A. R. Chisolm	358,382	Feb. 22	2363	627	38	885
Car-heating apparatus.....	W. P. Patton	368,489	Aug. 16	1671	{ 445 446	{ 40	786
Car-heating apparatus.....	W. H. Penfield	374,624	Dec. 13	655	171	41	1183
Car-heating apparatus.....	J. H. Sewall	373,314	Nov. 15	1561	413	41	776
Car-heating apparatus.....	J. H. Sewall	374,275	Dec. 6	140	37	41	1074
Car-heating appliance.....	J. W. Post.....	373,567	Nov. 22	1964	{ 522 523	{ 41	861
Car indicator. Railway.....	J. F. Hughes	371,889	Oct. 18	1653	427	41	343
Car lamps. Canopy for railway.....	M. J. Kelly and W. Zimmerman	364,019	May 31	2781	720	39	1028
Car lamps. Canopy for railway.....	W. W. Willits and A. M. Duburn	364,154	May 31	2970	772	39	1064
Car-lighting apparatus.....	C. R. Arnold	366,292	July 12	739	201	40	147
Car lock and seal.....	J. Chapman.....	363,801	May 31	2463	{ 639 640	{ 39	968
Car mechanism. Cable.....	T. L. Johnson	362,633	May 10	807	{ 220 221	{ 39	623
Car. Mining.....	J. M. Thompson	360,930	Apr. 12	758	199	39	147
Car. Motor.....	G. M. and J. A. Brill	373,639	Nov. 22	2066	551	41	883
Car motor. Street.....	A. W. Getchell	368,825	Aug. 23	2142	567	40	884
Car motor. Street.....	W. H. Patton	374,081	Nov. 29	2698	724	41	1014
Car motor. Street.....	A. L. Rich	373,853	Nov. 29	2370	637	41	950
Car motor. Street.....	J. P. Sparks	362,795	May 10	1042	283	39	674
Car motor. Street.....	S. W. Wood	364,881	June 14	977	{ 256 257	{ 39	1278
Car motor. Tram.....	W. C. Carrick	356,570	Jan. 25	1825	{ 477 478	{ 38	370
Car-mover.....	A. L. Butler.....	356,058	Jan. 11	1086	285	38	219
Car-mover.....	C. B. Dean	375,443	Dec. 27	1818	475	41	1424
Car-mover.....	E. Duplessis	363,124	May 17	1503	398	39	769
Car-mover.....	L. B. Gifford	373,358	Nov. 15	1643	435	41	791
Car-mover.....	A. Stockdale	369,413	Sept. 6	141	41	40	1059
Car or track-layer. Railway construction.....	G. M. West	364,325	June 7	158	44	39	1118
Car. Passenger.....	J. W. Post.....	366,250	July 12	691	188	40	138
Car-platform.....	T. B. Livingston and J. L. Smith.....	369,292	Aug. 30	2784	742	40	1020
Car-platform.....	C. M. Smith	366,518	July 12	1010	282	40	207
Car-platforms. Safety-bridge for.....	W. Schirmer.....	363,485	May 24	2006	523	39	876
Car. Power-driven street.....	J. Noble.....	369,610	Sept. 6	412	115	40	1113
Car-propulsion.....	W. L. Imlay and H. G. Williams.....	370,872	Oct. 4	179	47. 48	41	35
Car propulsion. System of railway.....	M. McManus	371,344	Oct. 11	865	222	41	176
Car rails. Rail-chair for street.....	E. B. Entwisle.....	364,996	June 14	1145	300	39	1309
Car. Railway.....	J. A. Brill	373,640	Nov. 22	2068	552	41	883
Car. Railway.....	C. A. Davis.....	370,859	Oct. 4	160	43	41	32
Car. Railway.....	C. A. Davis	371,928	Oct. 25	1709	443	41	363
Car. Railway.....	H. C. Fay.....	363,378	May 24	1836	483	39	842
Car. Railway.....	W. W. Green and J. Murison	372,615	Nov. 1	485	131	41	561

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car. Railway.....	C. C. Holt.....	374,897	Dec. 13	1045	273	41	1260
Car. Railway.....	W. D. Mann.....	356,653	Jan. 25	1942	509	38	393
Car. Railway.....	W. Marky.....	360,033	Mar. 29	2425	615	38	1386
Car. Railway.....	J. W. Post.....	365,939	July 5	262	68, 69	40	51
Car. Railway.....	J. W. Post.....	366,249	July 12	689	{ 187 188	{ 40	138
Car. Railway.....	W. Robinson.....	355,720	Jan. 11	588	{ 153 154	{ 38	125
Car. Railway.....	H. H. Sessions.....	373,098	Nov. 15	1228	328	41	716
Car. Railway.....	C. M. Smith.....	366,519	July 12	1042	283	40	207
Car. Railway.....	C. W. M. Smith.....	359,640	Mar. 22	1797	457	38	1265
Car. Railway.....	T. L. Wilson.....	371,403	Oct. 11	946	245	41	192
Car. Railway passenger.....	L. C. Hyde.....	367,811	Aug. 9	697	188	40	591
Car-replacer.....	J. L. Dwight.....	367,967	Aug. 9	925	250	40	635
Car-replacer.....	C. O. Kelly and J. E. Lee.....	369,530	Sept. 6	299	83	40	1091
Car-replacer.....	A. McLeod.....	360,320	Mar. 29	2869	730	38	1468
Car-replacer for street-railways.....	W. O. Cooke.....	371,177	Oct. 11	632	162	41	132
Car-retracker.....	W. H. Murdoch.....	370,402	Sept. 27	1573	421	40	1354
Car-roof.....	C. B. Hutchins.....	372,316	Nov. 1	47	15	41	480
Car-roof.....	A. P. Le Gros.....	374,545	Dec. 6	546	142	41	1152
Car. Safety.....	T. G. Gilfillan.....	366,828	July 19	1482	395	40	296
Car. Safety.....	F. D. Knight.....	365,309	June 21	1604	418	39	1402
Car. Safety.....	J. J. Pratt.....	373,480	Nov. 22	1822	485	41	837
Car safety-platform.....	S. H. Caldwell and R. Quartermass.....	356,920	Feb. 1	246	68	38	467
Car. Safety railway.....	W. F. Grassler.....	367,000	July 19	1699	457	40	337
Car. Safety railway.....	A. C. Maron and A. Böhm.....	365,143	June 21	1374	363	39	1359
Car. Sand.....	W. H. Barrows.....	370,232	Sept. 20	1326	354	40	1299
Car-sash.....	W. Sutton.....	364,191	May 31	3025	785	39	1074
Car-seal. Metallic.....	J. E. Lesueur.....	364,026	May 31	2789	723	39	1030
Car-seat.....	J. A. Brill.....	370,603	Sept. 27	1882	499	40	1409
Car-seat.....	J. S. Bushnell.....	372,597	Nov. 1	459	123	41	557
Car-seat.....	M. N. Forney.....	360,148	Mar. 29	2626	664	38	1412
Car-seat.....	H. S. Hale.....	359,354	Mar. 15	1332	345	38	1163
Car-seat.....	H. S. Hale.....	364,011	May 31	276	717	39	1025
Car-seat.....	G. Harvey.....	358,266	Feb. 22	2204	581	38	854
Car-seat.....	G. Harvey.....	360,961	Apr. 12	812	{ 208 209	{ 39	156
Car-seat.....	C. W. Johnson.....	358,454	Mar. 1	43	12	38	912
Car-seat.....	R. R. Pease.....	357,623	Feb. 15	1282	{ 336 337	{ 38	679
Car-seat.....	U. Smith.....	359,036	Mar. 8	904	230	38	1075
Car-seat.....	S. J. Webb.....	365,418	June 28	1772	460	39	1447
Car-seat attachment.....	M. Russack.....	360,540	Apr. 5	214	53	39	42
Car-seat lock.....	J. Kirby, Jr.....	362,891	May 10	1171	313	39	698
Car-seat lock.....	C. Parham.....	367,057	July 26	1778	480	40	361
Car-seat lock.....	C. Parham.....	372,430	Nov. 1	218	61	41	511
Car seat or settee. Railway.....	F. H. Henry.....	367,394	Aug. 2	54	14	40	461
Car-seat rest.....	W. W. Cleaveland.....	364,900	June 14	1007	264	39	1284
Car-seat. Reversible.....	J. Lemman.....	365,311	June 21	1605	418	39	1402
Car-seat. Reversible.....	J. M. Sauder.....	371,371	Oct. 11	901	231	41	184
Car-seats. Apparatus for cleaning.....	D. W. Copeland.....	374,940	Dec. 20	1129	{ 295 296	{ 41	1283
Car-seats. Head-rest for.....	H. W. Fackrell.....	365,248	June 21	1521	{ 396 397	{ 39	1387
Car-seats. Reversible back for.....	O. R. Lehdorff.....	360,231	Mar. 29	2747	696	38	1444
Car-signal.....	J. C. Farmer and C. A. Shaw.....	373,063	Nov. 15	1182	316	41	707
Car signal apparatus. Tram.....	J. Stephenson.....	361,904	Apr. 26	2175	564	39	428
Car signal. Cable.....	A. E. Cross.....	369,275	Aug. 30	2757	{ 735 736	{ 40	1014
Car signal. Railway.....	T. M. Jenks.....	362,088	May 3	51	15, 16	39	482
Car signal. Street.....	C. F. Rogers.....	358,484	Mar. 1	91	23	38	120
Car. Skip.....	A. E. Brown.....	370,678	Sept. 27	1990	529	40	1430
Car. Sleeping.....	J. Auld.....	364,565	June 7	512	{ 138 139	{ 39	1184
Car. Sleeping.....	E. W. Cutler.....	366,381	July 12	861	231	40	170
Car. Sleeping.....	E. W. Cutler.....	366,382	July 12	861	231	40	170
Car. Sleeping.....	G. Leve.....	357,531	Feb. 8	1137	{ 297 298	{ 38	642
Car. Sleeping.....	J. W. Post.....	368,005	Aug. 9	981	263	40	646
Car-spittoon.....	W. Reading.....	365,537	June 28	1956	509	39	1485
Car-spring.....	N. H. Davis.....	364,162	May 31	2981	774	39	1067
Car-spring.....	N. H. Davis.....	364,492	June 7	407	110	39	1165
Car-spring.....	C. E. Garey.....	364,008	May 31	2763	{ 716 717	{ 39	1024
Car-spring.....	G. W. Morris.....	359,359	Mar. 15	1341	346	38	1165
Car-spring.....	W. C. Perry.....	364,286	June 7	114	32	39	1111
Car-spring.....	S. D. Tripp.....	358,509	Mar. 1	128	32	38	927
Car-spring plates. Die for making.....	C. T. Schoen.....	368,428	Aug. 16	1576	421	40	769
Car-starter.....	B. B. Brady and A. B. McCanna.....	358,642	Mar. 1	329	79	38	964
Car-starter.....	C. E. Bromwell.....	371,545	Oct. 18	1143	298	41	241
Car-starter.....	D. L. Brown.....	373,437	Nov. 22	1754	465	41	824
Car-starter.....	T. Butler and A. Ligibel.....	357,759	Feb. 15	1499	392	38	718
Car-starter.....	E. Dederick.....	374,943	Dec. 20	1133	297	41	1284
Car-starter.....	J. M. Erts.....	359,013	Mar. 8	879	224	38	1071
Car-starter.....	Z. Floryanowicz.....	361,753	Apr. 26	1952	508	39	387
Car-starter.....	M. G. Hubbard.....	369,004	Aug. 30	2400	637	40	944
Car-starter.....	G. T. Jobson.....	364,939	June 14	1063	277	39	1293
Car-starter.....	J. M. Linscott.....	367,531	Aug. 2	257	73	40	500
Car-starter.....	P. Listeman.....	356,593	Jan. 25	1852	487	38	376
Car-starter.....	D. Lynch.....	369,116	Aug. 30	2560	681	40	974
Car-starter.....	B. C. Pole.....	365,274	June 21	1557	406	39	1394
Car-starter.....	M. Potter.....	355,712	Jan. 11	575	150	38	123
Car-starter.....	H. R. Stickney, 2d.....	364,061	May 31	2834	735	39	1039
Car-starter.....	H. P. Titus.....	373,208	Nov. 15	1413	372	41	748

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Car-starter.....	J. R. Tracy.....	368,695	Aug. 23	1965	521	40	851
Car-starter.....	L. H. Wilson.....	358,999	Mar. 8	860	218	38	1067
Car starter and brake.....	R. B. Avery.....	357,263	Feb. 8	762	198	38	571
Car starter and brake.....	F. M. Mahan and A. R. Hendrix.....	359,266	Mar. 15	1205	315	38	1140
Car starter and brake.....	C. Merckelbagh.....	373,994	Nov. 29	2570	691	41	988
Car starter and brake.....	J. C. Mitchell.....	356,491	Jan. 25	1714	448	38	350
Car starter and brake.....	W. H. Snider.....	363,770	May 24	2416	626	39	953
Car-step.....	U. Beauséjour.....	356,346	Jan. 18	1505	395	38	303
Car-step.....	J. F. Knapp.....	365,924	July 5	241	63	40	47
Car-step.....	L. W. Sheldon.....	369,129	Aug. 30	2575	684	40	978
Car step. Railway.....	F. S. Vincent and J. W. Cairns.....	374,217	Dec. 6	65	18	41	1059
Car. Stock.....	H. Arms.....	355,907	Jan. 11	873	229	38	177
Car. Stock.....	G. D. Burton.....	359,345	Mar. 15	1316	342	38	1160
Car. Stock.....	G. D. Burton.....	360,370	Mar. 29	2945	748	38	1480
Car. Stock.....	G. D. Burton.....	374,824	Dec. 13	937	{ 244 245 }	{ 41 41 }	{ 1239 1239 }
Car. Stock.....	G. Grossman.....	366,091	July 5	462	125	40	87
Car. Stock.....	W. W. Herron and A. B. White.....	371,501	Oct. 11	1083	282	41	220
Car. Stock.....	F. G. Kent.....	368,593	Aug. 23	1812	482	40	822
Car. Stock.....	L. Mengeler.....	357,219	Feb. 8	702	181	38	560
Car. Stock.....	A. G. Minges.....	363,163	May 17	1555	410	39	779
Car. Stock.....	O. Newell.....	366,975	July 19	1671	{ 449 450 }	{ 40 40 }	{ 332 332 }
Car. Stock.....	O. Newell.....	375,562	Dec. 27	1979	515	41	1455
Car. Stock.....	G. R. Ott and D. P. Cordray.....	357,535	Feb. 8	1144	{ 299 300 }	{ 38 38 }	{ 643 643 }
Car. Stock.....	R. H. Ripley.....	366,738	July 19	1363	365	40	275
Car. Stock.....	N. Z. Seitz.....	374,881	Dec. 13	1015	266	41	1253
Car. Stock.....	J. Westfall.....	364,876	June 14	973	255	39	1277
Car. Stock.....	L. H. White.....	356,910	Feb. 1	234	65	38	464
Car-strap.....	A. Brandon.....	360,137	Mar. 29	2607	661	38	1419
Car. Street.....	P. F. Milligan.....	356,489	Jan. 25	1712	447	38	350
Car. Street.....	G. W. Parker.....	355,787	Jan. 11	691	180	38	143
Car-uncoupler. Automatic.....	J. H. Flett.....	364,236	June 7	52	16	39	1098
Car-ventilating apparatus.....	W. D. F. Jarvis.....	359,975	Mar. 22	2324	584	38	1361
Car-ventilation.....	J. M. Waggoner.....	368,030	Aug. 9	1009	271	40	652
Car-ventilator.....	H. E. Jacobs.....	363,642	May 24	2234	579	39	918
Car-ventilator.....	J. L. Prentiss.....	356,851	Feb. 1	152	41	38	451
Car-ventilator.....	F. S. Tull.....	371,287	Oct. 11	784	201	41	162
Car ventilator. Railway.....	F. Hanson.....	368,148	Aug. 9	1171	312	40	681
Car ventilator. Railway.....	J. C. Wands.....	370,667	Sept. 27	1973	{ 522 523 }	{ 40 40 }	{ 1427 1427 }
Car-wheel.....	J. W. Cloud.....	355,681	Jan. 11	528	139	38	113
Car-wheel.....	J. W. Cloud. (Reissue).....	10,869	Oct. 4	607	156	41	120
Car-wheel.....	J. Goettel.....	363,383	May 24	1845	486	39	844
Car-wheel.....	M. Hamlin.....	358,352	Feb. 22	2321	615	38	877
Car-wheel.....	M. Hardsocg.....	364,511	June 7	429	116	39	1169
Car-wheel.....	W. H. Masterman.....	362,292	May 3	309	85	39	533
Car-wheel.....	G. W. Miller.....	363,838	May 31	2518	654	39	978
Car-wheel.....	G. W. Miller.....	363,839	May 31	2519	654	39	979
Car-wheel.....	G. Palmer.....	366,602	July 12	1171	314	40	232
Car-wheel.....	J. A. Parker.....	372,701	Nov. 8	617	167	41	597
Car-wheel.....	G. Peacock.....	359,174	Mar. 8	1076	280	38	1109
Car-wheel.....	E. Peckham.....	356,885	Feb. 1	204	57	38	459
Car-wheel.....	E. Peckham.....	356,886	Feb. 1	206	58	38	459
Car-wheel.....	E. Peckham.....	366,179	July 5	581	156	40	109
Car-wheel.....	E. Peckham.....	366,180	July 5	582	156	40	110
Car-wheel.....	E. Peckham.....	366,181	July 5	584	156	40	110
Car-wheel.....	E. Peckham.....	366,182	July 5	585	157	40	110
Car-wheel.....	E. Peckham.....	366,183	July 5	587	157	40	110
Car-wheel.....	E. Peckham.....	375,092	Dec. 20	1347	352	41	1323
Car-wheel.....	E. Peckham.....	375,093	Dec. 20	1349	352	41	1324
Car-wheel.....	E. Robinson.....	355,664	Jan. 4	501	133	38	98
Car-wheel.....	S. L. Sinclair.....	365,546	June 28	1973	514	39	1487
Car-wheel.....	W. W. Snow.....	359,332	Mar. 15	1300	337	38	1157
Car-wheel.....	W. W. Snow.....	361,332	Apr. 19	1353	348	39	268
Car-wheel.....	W. B. Swartwout.....	369,752	Sept. 13	598	162	40	1157
Car-wheel.....	S. W. Tanner.....	358,951	Mar. 8	791	199	38	1055
Car-wheel.....	N. Washburn.....	356,907	Feb. 1	230	64	38	464
Car-wheel.....	B. J. Westervelt.....	368,262	Aug. 16	1351	356	40	723
Car-wheel.....	B. J. Westervelt.....	375,466	Dec. 27	1848	483	41	1430
Car-wheel.....	J. A. Woodbury.....	373,213	Nov. 15	1420	375	41	750
Car-wheel chill.....	L. R. Faught.....	365,914	July 5	221	58	40	43
Car-wheel mold.....	E. Amundson.....	360,403	Apr. 5	2	1	39	3
Car wheel. Railway.....	N. Washburn.....	356,906	Feb. 1	230	64	38	464
Car-wheel replacer.....	J. E. Cameron.....	366,302	July 12	752	204	40	150
Car-wheel rims. Die for shaping.....	G. W. Miller.....	373,084	Nov. 15	1214	324	41	713
Car-wheel-riveting machine.....	R. Kells.....	369,643	Sept. 6	461	128	40	1122
Car-wheel. Self-lubricating.....	I. Barker.....	372,290	Nov. 1	9	3	41	472
Car-wheel tire.....	W. J. Willits.....	356,811	Feb. 1	95	26	38	441
Car-wheels. Chill for.....	L. R. Faught.....	365,589	June 28	2042	{ 532 533 }	{ 39 39 }	{ 1500 1500 }
Car-wheels. Chill for.....	L. R. Faught.....	365,590	June 28	2043	533	39	1500
Car wheels. Device for changing railway.....	L. F. Smith.....	363,692	May 24	2310	599	39	933
Car-wheels. Machine for making rims of.....	J. J. Kirby.....	373,777	Nov. 22	2259	606	41	920
Car-wheels. Machine for rolling.....	T. W. Bean.....	361,479	Apr. 19	1554	{ 402 403 }	{ 39 39 }	{ 305 305 }
Car-wheels. Machine for truing.....	C. Lindström and W. T. Miller.....	355,829	Jan. 11	744	{ 194 195 }	{ 38 38 }	{ 153 153 }
Car-wheels. Making.....	J. Rigby.....	362,113	May 3	88	27	39	490
Car-wheels. Manufacture of forged.....	J. Coffin.....	357,980	Feb. 15	1799	{ 471 472 }	{ 38 38 }	{ 774 774 }
Car-wheels. Mill for rolling.....	S. T. Hughes.....	366,109	July 5	484	131	40	91
Car-wheels. Molding.....	J. J. Carr.....	360,086	Mar. 29	2513	{ 639 640 }	{ 38 38 }	{ 1402 1402 }

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car-wheels. Pattern for.....	J. N. Conway.....	363,598	May 24	2167	562	39	906
Car-window.....	A. J. Barber.....	371,245	Oct. 11	723	{ 185 186 }	41	150
Car-window screen.....	F. S. Groves and A. B. Wyckoff.....	363,384	May 24	1847	486	39	844
Car-window screen.....	W. T. Nesbitt.....	373,474	Nov. 22	1811	482	41	835
Car-windows. Dust-guard for.....	T. H. Duzan.....	363,125	May 17	1503	398	39	769
Car-windows. Dust-guard for.....	J. C. Tutt.....	366,900	July 19	1576	422	40	314
Cars and similar structures. Apparatus for heating.....	H. M. Young.....	373,575	Nov. 22	1975	525	41	864
Cars. Apparatus for heating.....	O. Bryan.....	364,799	June 14	861	225	39	1256
Cars. Apparatus for heating.....	T. R. White.....	375,521	Dec. 27	1916	502	41	1443
Cars. Apparatus for heating.....	F. M. Wilder.....	365,715	June 28	2220	{ 578 579 }	39	1531
Cars. Apparatus for heating and ventilating.....	M. B. Stafford.....	373,495	Nov. 22	1853	493	41	813
Cars. Apparatus for heating and ventilating railway.....	W. E. Depp.....	365,975	July 5	309	82	40	58
Cars. Apparatus for heating railway.....	J. H. Ballard, Jr.....	366,445	July 12	931	254	40	185
Cars. Apparatus for heating railway.....	L. K. Curlett.....	374,659	Dec. 13	699	184	41	1192
Cars at terminals. Device for loading and unloading passenger.....	G. W. Pearsons.....	368,420	Aug. 16	1563	418	40	766
Cars. Attachment for holding vehicles in.....	E. M. Lozier.....	362,453	May 3	540	150	39	578
Cars. Automatic brake for railway.....	T. J. Megown.....	365,840	July 5	112	31	40	23
Cars. Automatic coupling device for connecting heat or power conveying pipes of railway.....	J. S. Lash.....	364,527	June 7	466	126	39	1175
Cars. Automatic indicator for railway.....	J. H. Hurlbut.....	372,373	Nov. 1	132	40	41	495
Cars. Brake-beam for railway.....	P. Hien.....	361,009	Apr. 12	890	225	39	169
Cars. Braking mechanism for railway.....	J. E. Loughridge.....	368,842	Aug. 23	2169	575	40	890
Cars. Buffer-brake for railway.....	H. S. Richard.....	369,814	Sept. 13	686	185	40	1173
Cars. Bull's-eye or signal for street.....	J. A. Brill.....	372,959	Nov. 8	1016	273	41	666
Cars. Bundle-rack for railway.....	D. S. Page.....	358,690	Mar. 1	403	97	38	979
Cars. Bunk for railway.....	C. C. Wood.....	362,692	May 10	891	293	39	646
Cars by electricity. Apparatus for lighting.....	S. H. Short.....	369,561	Sept. 6	339	94	40	1099
Cars by steam. Device for heating railway.....	W. Martin.....	371,959	Oct. 25	1752	{ 453 454 }	41	371
Cars. Cable-grip for.....	T. Kerr. (Reissue).....	10,821	Mar. 22	2342	589	38	1364
Cars. Cable-grip for.....	D. W. Smith.....	358,703	Mar. 1	421	102	38	982
Cars. Cable road for street.....	C. Leavitt.....	366,119	July 5	504	{ 136 137 }	40	95
Cars. Cupola for freight.....	C. A. Smith.....	372,937	Nov. 8	982	266	41	661
Cars. Cuspidor for railway.....	T. Straker.....	362,907	May 10	1196	320	39	703
Cars. Derailing and replacing attachment for street.....	A. F. B. Hennig and A. Rettig.....	377,827	Feb. 15	1589	412	38	735
Cars. Device for supporting and operating street.....	A. G. Bierbach.....	359,662	Mar. 22	1825	464	38	1270
Cars. Displaying advertisements on.....	C. S. Nelson and W. N. Colam.....	364,279	June 7	105	30	39	1109
Cars. Draft-rigging for railway.....	J. P. Levan.....	360,705	Apr. 5	442	113	39	82
Cars. Draw-head for railway.....	J. A. Brill.....	357,812	Feb. 15	1564	{ 407 408 }	38	730
Cars. Dust-preventing apparatus for railway.....	C. Turner.....	373,622	Nov. 22	2041	543	41	878
Cars. Electric lighting of railway.....	C. E. Buell.....	365,460	June 28	1837	{ 477 478 }	39	1459
Cars. Electro-magnetic attraction device for.....	J. B. Atwater.....	357,516	Feb. 8	1112	292	38	637
Cars. Emergency-brake for railway.....	J. W. Post.....	365,487	June 28	1813	487	39	1466
Cars. End-gate for coal.....	D. McKinley.....	369,018	Aug. 30	2416	{ 641 642 }	40	947
Cars. Fare-box for street.....	J. R. Wherry and W. B. Turman.....	359,482	Mar. 15	1528	391	38	1200
Cars. Fastening device for grain-doors of freight.....	J. M. Griswold.....	375,447	Dec. 27	1824	477	41	1425
Cars. Fender for street.....	A. J. Mason and G. C. Hale.....	366,015	July 5	370	100	40	69
Cars. Folding and swinging gate for railway.....	J. B. Goodwin.....	369,284	Aug. 30	2769	739	40	1017
Cars. Gate-opening device for dumping.....	G. Warttinger.....	360,261	Mar. 29	2793	{ 710 711 }	38	1454
Cars. Gong or bell for street-railway.....	J. A. Brill.....	370,602	Sept. 27	1881	{ 408 409 }	40	1409
Cars. Grain-door fastener for railway.....	J. H. Heckman.....	362,890	May 10	1170	312	39	697
Cars. Grip for cable-railway.....	B. L. Harris.....	372,144	Oct. 25	2041	523	41	422
Cars. Grooved girder-rails for street.....	C. A. Richards.....	366,507	July 12	1023	279	40	203
Cars. Handling hand.....	S. Arcus.....	367,260	July 26	2079	562	40	417
Cars. Hauling railway.....	L. Messier.....	364,033	May 31	2799	725	39	1031
Cars. Head-rest for railway.....	J. L. Wiseman.....	360,789	Apr. 5	552	143	39	104
Cars. Heating apparatus for street.....	J. M. Segraves.....	369,743	Sept. 13	587	160	40	1155
Cars. Heating device for railway.....	J. Henney, Jr.....	373,659	Nov. 22	2095	560	41	889
Cars. Heating-pipe connection between.....	W. L., Sr., and W. L. Van Hartin- gen, Jr.....	372,946	Nov. 8	996	{ 268 269 }	41	663
Cars. Heating-pipe connection between.....	W. L., Sr., and W. L. Van Hartin- gen, Jr.....	372,947	Nov. 8	999	{ 269 270 }	41	663
Cars. Heating railway.....	T. Lanahan and G. W. Roberts.....	367,347	July 26	2211	593	40	441
Cars. Holder for address-cards or labels upon railway.....	F. Kellogg and J. W. Penrose.....	362,842	May 10	1098	297	39	684
Cars. Label-holder for.....	O. C. Harris.....	365,378	June 28	1723	446	39	1437
Cars. Lavatory appliance for railway.....	W. D. Mann.....	371,084	Oct. 4	500	{ 125 126 }	41	99
Cars. Life-guard for street.....	A. Rapp.....	358,366	Feb. 22	2338	620	38	880
Cars. Lining for railway.....	C. A. and C. M. Smith.....	366,521	July 12	1046	285	40	208
Cars. Machine for unloading.....	J. Scully.....	366,033	July 5	392	{ 106 107 }	40	74
Cars. Means for heating railway.....	J. Q. C. Searle.....	370,897	Oct. 4	228	58	41	45
Cars. Metallic frame for railway.....	B. J. La Mothe.....	368,343	Aug. 16	1456	388	40	745
Cars. Metallic roofing for railway.....	B. F. Caldwell and W. F. Peterson.....	370,680	Sept. 27	1993	530	40	1430
Cars. Method of and apparatus for heating railway.....	F. M. Wilder.....	373,039	Nov. 8	1147	{ 306 307 }	41	690
Cars. Method of and apparatus for ventilating railway.....	H. R. Adams.....	359,761	Mar. 22	1984	502	38	1298
Cars. Motor mechanism for.....	F. R. Estlow.....	361,354	Apr. 19	1386	357	39	273
Cars of cable roads. Switching grip.....	W. C. Klemme.....	363,749	May 24	2387	620	39	948
Cars, &c. Operating bells and indicators in street.....	T. P. Swin and J. L. Carr.....	358,129	Feb. 22	2018	531	38	819
Cars. Operating device for the windows of railway.....	J. W. Post.....	369,298	Aug. 30	2794	745	40	1021
Cars. Pilot for railway.....	G. W. Bell and J. W. Trickett.....	365,664	June 28	2145	560	39	1519
Cars. Pipe-coupling for heating railway.....	W. F. Grassler.....	374,059	Nov. 29	2665	716	41	1007

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Cars. Pipe-coupling for railway.....	J. H. Chambers.....	370,606	Sept. 27	1886	{ 500 501 }	{ 40 41 }	1410
Cars. Pipe-coupling for railway.....	P. Dufresne.....	371,558	Oct. 18	1160	303	41	244
Cars. Platform-step for railway.....	J. J. Stever.....	375,218	Dec. 20	1519	399	41	1358
Cars. Running-gear for railway.....	G. M. Brill.....	357,811	Feb. 15	1563	407	38	730
Cars. Safety-brake for cable.....	L. Goddu.....	370,388	Sept. 27	1553	416	40	1350
Cars. Safety-guard for railway.....	E. A. Wescott.....	357,800	Feb. 15	1551	404	38	728
Cars. Sand-box for railway.....	H. W. Jordan, G. W. Mills, and L. Jordan.	365,076	June 21	1269	335	39	1341
Cars. Sand-box for street.....	C. Clark.....	368,812	Aug. 23	2124	562	40	881
Cars. Sanding apparatus for street.....	J. W. Livingston.....	360,600	Apr. 5	303	74	39	58
Cars. Sealing attachment for freight.....	J. Jordan.....	368,152	Aug. 9	1175	313	40	682
Cars. Shackling device for street.....	W. W. Sargent.....	373,909	Nov. 29	2451	658	41	965
Cars. Signaling apparatus for tram.....	J. Stephenson.....	362,042	Apr. 26	2378	620	39	463
Cars. Standard for logging.....	E. J. Minnock.....	367,427	Aug. 2	97	26	40	469
Cars. Steam and electric connection for railway.....	B. R. Deacon.....	372,363	Nov. 1	117	36	41	493
Cars. Steam-heater for railway.....	H. R. Robbins.....	364,134	May 31	2941	764	39	1058
Cars. Steam-heating apparatus for railway.....	R. Coddington.....	372,061	Oct. 25	1911	492	41	399
Cars. Steam-heating-pipe connection for.....	J. Emerson.....	372,303	Nov. 1	23	7	41	476
Cars. Street-indicator for.....	C. H. Miller.....	358,467	Mar. 1	63	16	38	915
Cars. Swing-bearing for street.....	W. Sutton.....	364,192	May 31	3026	786	39	1074
Cars. Temporary bowl for water-closets of railway.....	C. M. Podgorski.....	363,846	May 31	2529	657	39	981
Cars, &c. Track-cleaning attachment for street.....	C. Peper and C. O. Sobinski.....	372,816	Nov. 8	814	{ 217 218 }	{ 41 41 }	630
Cars. Transfer-float for railway.....	W. Hord.....	359,077	Mar. 8	955	{ 244 245 }	{ 38 38 }	1086
Cars. Vacuum-brake for railway.....	L. P. Lawrence.....	371,603	Oct. 18	1226	319	41	257
Cars. Ventilating.....	J. A. Buckley and C. J. Koefoed.....	355,586	Jan. 4	377	{ 101 102 }	{ 38 38 }	75
Cars. Ventilating.....	J. A. Buckley and C. J. Koefoed.....	355,587	Jan. 4	379	102	38	76
Cars. Ventilating apparatus for railway.....	G. Leve.....	373,898	Nov. 29	2439	655	41	962
Cars. Ventilating railway.....	C. A. and C. M. Smith.....	366,520	July 12	1044	285	40	207
Cars. Wash-stand for boudoir and other.....	W. D. Mann.....	366,413	July 12	896	241	40	177
Cars. Water-heater for.....	W. A. White.....	362,342	May 3	377	104	39	547
Cars. Watering apparatus for cattle.....	F. E. Canda.....	363,115	May 17	1492	395	39	766
Cars. Weed-cutting attachment for railway.....	C. W. Wardwell.....	369,039	Aug. 30	2449	650	40	953
Carbon battery.....	C. H. Wilder.....	372,734	Nov. 8	665	{ 182 183 }	{ 41 41 }	605
Carbon dioxide. Apparatus for obtaining liquid.....	D. D. Johnson.....	370,703	Sept. 27	2030	{ 540 541 }	{ 40 40 }	1438
Carbon dioxide. Process of and apparatus for making.....	S. Cabot.....	359,996	Mar. 29	2357	594	38	1373
Carbon for crucibles, furnace-linings, glass-pots, Bessemer converters, artificial-stone polishing-wheels, &c. Refractory and non-conducting material from gas.....	F. H. Snyder.....	357,105	Feb. 1	510	.....	38	516
Carbon. Purifying gas.....	F. H. Snyder.....	357,103	Feb. 1	508	135	38	516
Carbons. Apparatus for making.....	J. T. Lister. (Reissue).....	10,866	Sept. 18	1037	{ 273 274 }	{ 40 40 }	1237
Carbons. Apparatus for manufacturing.....	J. T. Lister.....	356,879	Feb. 1	198	55	38	458
Carbonates. Manufacture of oxychinoline.....	R. Schmitt.....	355,842	Jan. 11	765	.....	38	156
Carbonizing incandescents.....	W. Maxwell.....	364,031	May 31	2797	724	39	1031
Carboy carrier and stand.....	L. Hillebrand.....	367,980	Aug. 9	940	254	40	639
Carbureting apparatus.....	O. W. Bennett.....	362,197	May 3	188	56	39	510
Carbureting apparatus.....	T. Drake.....	370,936	Oct. 4	295	72	41	59
Carburetor.....	C. R. Collins.....	371,034	Oct. 4	436	109	41	86
Carburetor.....	C. B. Dudley.....	375,055	Dec. 20	1290	{ 336 337 }	{ 41 41 }	1312
Carburetor.....	J. Leede.....	370,149	Sept. 20	1214	322	40	1278
Carburetor.....	L. F. McNett.....	356,950	Feb. 1	283	78	38	474
Carburetor.....	J. B. Stanour.....	356,337	Jan. 18	1190	393	38	300
Carburetor.....	E. K. Sumerwell.....	359,646	Mar. 22	1805	459	38	1267
Carburetor.....	F. Weil.....	359,585	Mar. 15	1715	437	38	1233
Carburetor for air or gas.....	C. B. Dudley.....	368,137	Aug. 9	1152	306	40	678
Carburetor. Gas.....	W. O. Hickel.....	366,664	July 19	1258	336	40	255
Card-board.....	H. B. Dexter.....	372,971	Nov. 8	1037	278	41	670
Card-board, &c. Apparatus for cutting grooves in.....	T. Remus.....	362,180	May 3	171	50, 51	39	506
Card-board. Apparatus for grooving.....	T. Remus.....	362,179	May 3	170	50	39	506
Card-board-manufacturing machine.....	L. W. Noyes.....	374,848	Dec. 13	968	253	41	1244
Card-board or pasteboard. Apparatus for cutting } or dividing }	W. R. Bacon.....	357,445	Feb. 8	1006	{ 265 266 }	{ 38 38 }	617
Card-clothed roller.....	E. Gessner.....	364,817	June 14	887	233	39	1260
Card-clothing. Machine for making.....	E. Gessner.....	364,816	June 14	886	233	39	1260
Card-distributor.....	T. Schneider.....	372,389	Nov. 1	158	45	41	499
Card. Game.....	P. K. Dealy.....	357,184	Feb. 8	657	170	38	552
Card-gilding machine.....	C. A. Wright.....	363,936	May 31	2656	690	39	1003
Card-grinder.....	W. S. Kenyon.....	359,928	Mar. 22	2248	.....	38	1346
Card-holder.....	C. W. Baker.....	372,445	Nov. 1	238	66	41	515
Card-holder.....	G. M. Burgess, Jr.....	363,206	May 17	1614	424	39	790
Card. Illustrated number.....	J. B. Moody.....	367,223	July 26	2026	{ 545 546 }	{ 40 40 }	408
Card-list.....	J. H. Fezandie.....	373,279	Nov. 15	1511	{ 398 399 }	{ 41 41 }	767
Card or label holder.....	B. C. Haskell.....	370,782	Oct. 4	47	12	41	11
Card. Playing.....	S. A. Cohen.....	360,650	Apr. 5	381	96	39	72
Card. Show.....	J. F. Adams.....	362,050	May 3	1	1	39	473
Card-shuffling apparatus.....	S. Tingley and C. W. Stetson.....	373,953	Nov. 29	2511	675	41	976
Cards. Frame for reading and number.....	F. L. Matson.....	371,338	Oct. 11	852	218	41	174
Cards. Machine for displaying advertising and other.....	P. Seyl.....	367,068	July 26	1794	484	40	364
Cards. Machine for grinding hand.....	W. S. Burton.....	357,975	Feb. 15	1786	469	38	772
Cards. Machine for stitching together Jacquard.....	W. V. Gee.....	361,406	Apr. 19	1456	{ 376 377 }	{ 39 39 }	286
Cards. Support for picture.....	W. Hagelberg.....	359,150	Mar. 8	1048	273	38	1104
Carding cotton, &c. Machine for.....	F. Mills.....	372,038	Oct. 25	1879	485	41	393

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Carding-engine.....	W. Dobson	363,607	May 24	2180	565	39	909
Carding-engine	B. A. Dobson and W. I. Bromiley ..	361,815	Apr. 26	2040	{ 530 531 }	{ 39	403
Carding-engine	B. A. Dobson and W. I. Bromiley ..	363,732	May 24	2364	614	39	943
Carding-engine	W. Lord and J. Stocks	359,618	Mar. 22	1771	450	38	1260
Carding-engines. Appliance for securing card-cloth- ing to flats of	N. Whitley, F. W. Thomson, and H. Hoyle	371,398	Oct. 11	940	242	41	190
Carding-engines. Bend for	G. and E. Ashworth	359,529	Mar. 15	1607	411	38	1214
Carding-engines. Cleaning apparatus for	G. and E. Ashworth	369,271	Aug. 30	2752	734	40	1013
Carding-engines. Comb-plate for doffer-combs of ..	J. W. Bonsack	363,199	May 17	1604	421	39	789
Carding-engines. Mechanism for stripping the top- flats of	A. Falls	369,444	Sept. 6	184	52, 53	40	1067
Carding-machine	G. Bebb	356,089	Jan. 18	1145	304	38	236
Carding-machine	G. Bebb	356,090	Jan. 18	1147	304	38	236
Carding-machine	M. Descards	363,612	May 24	2192	568	39	911
Carding-machine	S. D. Keene	367,914	Aug. 9	841	227	40	620
Carding-machine	A. F. Schmid	367,853	Aug. 9	755	203	40	603
Carding-machine	W. H. Rankin	365,405	June 28	1757	{ 455 456 }	{ 39	1445
Carding-machine	D. Senior and H. Fitton	372,771	Nov. 8	734	199	41	616
Carding-machine. Condensing	M. E. George	373,137	Nov. 15	1290	343	41	727
Carding-machines. Condenser for	W. Gill	357,478	Feb. 8	1056	{ 279 280 }	{ 38	627
Carding-machines. Fleece-dividing attachment for ..	H. D. Bosson	363,200	May 17	1605	421	39	789
Carding-machines. Mechanism for reciprocating the tumblers of	G. Dawson	361,492	Apr. 19	1568	407	39	308
Carding-machines. Top-flat-stripping mechanism for	A. Falls	365,250	June 21	1523	{ 397 398 }	{ 39	1387
Carding or separating fibrous material. Machine for ..	W. S. Archer	371,913	Oct. 25	1689	{ 437 438 }	{ 41	359
Cargo-discharging apparatus	A. Betteley	371,731	Oct. 18	1417	366	41	297
Cargo-discharging apparatus	S. Murray	366,343	July 12	813	{ 218 219 }	{ 40	161
Carpenter's gage	A. Fales	365,804	July 5	65	19	40	14
Carpet and weather strip. Combined	D. L. Allyn	364,462	June 7	367	100	39	1158
Carpet-beater	A. Lyon	361,638	Apr. 19	1783	461	39	350
Carpet-cleaner	E. A. Burr	359,709	Mar. 22	1896	481	38	1284
Carpet-cleaner	J. F. Kieswetter	366,961	July 19	1653	444	40	329
Carpet-cleaner	W. H. Trissler	371,109	Oct. 4	537	137	41	106
Carpet-cleaning reel	S. J. Miller	356,951	Feb. 1	285	79	38	474
Carpet fabric	G. Crompton	363,366	May 24	1823	479	39	840
Carpet-fastener	R. S. Grummon	374,534	Dec. 6	523	137	41	1147
Carpet-fastener	M. B. McCastline	358,049	Feb. 22	1896	501	38	798
Carpet-fastener	M. B. McCastline	362,171	May 3	162	47	39	504
Carpet-fastener	J. McPherson	369,355	Sept. 6	69	19	40	1047
Carpet-fastener	T. W. M. Worley	362,476	May 3	570	158	39	584
Carpet. Ingrain	A. Heald	375,289	Dec. 20	1605	421	41	1374
Carpet-lining	B. S. Bryant	360,757	Apr. 5	508	131	39	95
Carpet-lining	B. S. Bryant	365,966	July 5	298	79	40	57
Carpet-lining	J. C. Mayall	362,293	May 3	310	85	39	534
Carpet-stretcher	M. F. Gutierrez	361,283	Apr. 19	1288	330	39	256
Carpet-stretcher	C. E. Jones	371,891	Oct. 18	1659	428	41	344
Carpet-stretcher	C. T. Manter	373,593	Nov. 22	2002	531	41	869
Carpet-stretcher	A. McFarland	373,595	Nov. 22	2005	531	41	870
Carpet-stretcher	W. T. Morgan	356,417	Jan. 18	1601	421	38	320
Carpet-stretcher	T. Pratt	367,320	July 26	2166	583	40	432
Carpet-stretcher	J. A. Risdon	362,114	May 3	89	27	39	490
Carpet-stretcher	W. Sexauer	362,791	May 10	1038	282	39	673
Carpet-stretcher	M. B. Spackman	363,013	May 17	1348	356	39	738
Carpet-stretcher	O. L. Sprague	364,058	May 31	2829	734	39	1037
Carpet-stretcher	A. P. Stenart and H. M. Welliver ..	375,019	Dec. 20	1242	324	41	1303
Carpet-stretcher	A. Stockdale	356,804	Feb. 1	85	24	38	439
Carpet-stretcher	A. Stockdale	362,122	May 3	97	30	39	492
Carpet-stretcher	A. Stockdale	368,250	Aug. 16	1336	352	40	720
Carpet-stretcher	A. Stockdale	370,902	Oct. 4	239	61	41	47
Carpet-stretcher	V. P. Van Horne and A. J. Fisher ..	256,017	Jan. 11	1028	270	38	208
Carpet-stretcher	G. P. Woodworth	362,863	May 10	1126	303	39	689
Carpet-stretcher and tack driver and extractor ..	G. F. Kolb	365,823	July 5	87	25	40	19
Carpet-stretching machine	L. Hinkle	370,257	Sept. 20	1356	363	40	1305
Carpet-sweeper	W. J. Drew	369,047	Aug. 30	2461	653	40	955
Carpet-sweeper	W. J. Drew	370,384	Sept. 27	1549	415	40	1349
Carpet-sweeper	G. W. Kelley	367,528	Aug. 2	253	72	40	499
Carpet-sweeper	J. M. McClain	365,192	June 21	1435	378	39	1371
Carpet-sweeper	O. P. Prescott	371,519	Oct. 11	1105	288	41	225
Carpet-weaver	M. A. McMaster	371,468	Oct. 11	1033	269	41	210
Carpets and other fabrics. Manufacturing bordered ..	H. Fawcett	364,711	June 14	712	190	39	1231
Carpets. Producing design and color effects in in- grain	F. W. Read and H. Knight	360,482	Apr. 5	124	.....	39	24
Carpets. Producing improved color effects in three- ply ingrain	J. L. Folsom	371,572	Oct. 18	1185	308	41	249
Carpets. Producing improved color effects in two- ply ingrain	J. L. Folsom	371,571	Oct. 18	1183	308	41	249
Carpeting, &c. Producing improved color effects in the manufacture of tapestry	G. Marchetti	363,900	May 31	2596	675	39	993
Carpeting, &c. Producing improved color effects in the manufacture of tapestry	G. Marchetti. (Reissue)	10,890	Dec. 20	1663	436	41	1386
Carpeting. Producing improved color effects in two- ply ingrain	J. L. Folsom	356,063	Jan. 11	1090	287	38	220
Carriage	G. H. Morgan	356,370	Jan. 18	1536	{ 403 404 }	{ 38	309
Carriage	W. H. Simmons	358,226	Feb. 22	2151	567	38	844
Carriage	C. Thomas	369,370	Sept. 6	87	27	40	1050
Carriage-apron	G. E. Plumb	364,292	June 7	118	34	39	1112
Carriage. Baby	C. M. Banks	357,566	Feb. 15	1204	{ 317 318 }	{ 38	665

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Carriage. Baby-.....	A. Sands.....	366,741	July 19	1367	366	40	276
Carriage-bow.....	J. A. Sampsell.....	366,511	July 12	1028	280	40	204
Carriage-bow-spring rest.....	W. S. Coleman, A. C. Armentrout, } and G. P. Sweitzer. }	362,818	May 10	1066	{ 289 290 }	{ 39 39 }	678
Carriage-bows. Die for forming stump-joints for.....	W. Davis and W. Casey.....	369,778	Sept. 13	634	171	40	1163
Carriage-bows. Machine for turning.....	J. W. and J. W. Sherwood.....	364,682	June 14	662	177	39	1221
Carriage brake. Child s.....	J. H. Peterson.....	374,001	Nov. 29	2579	693	41	990
Carriage-brake. Self-acting.....	G. Reinke.....	366,737	July 19	1362	365	40	275
Carriage. Child's.....	W. E. Crandall.....	356,100	Jan. 18	1162	307	38	238
Carriage. Child's.....	V. Doane, Jr.....	365,298	June 21	1590	414	39	1400
Carriage. Child's.....	S. A. Holman.....	355,532	Jan. 4	308	82	38	62
Carriage. Child's.....	J. W. Savene.....	367,935	Aug. 9	876	238	40	626
Carriage. Child's folding.....	J. P. Furse.....	360,873	Apr. 12	682	178	39	133
Carriage-curtain.....	F. A. Bradenburg.....	357,265	Feb. 8	766	199	38	571
Carriage-curtain fastener.....	D. Conboy.....	364,805	June 14	868	227	39	1257
Carriage-curtain fastener.....	W. S. Dunn.....	358,389	Feb. 22	2370	630	38	886
Carriage-curtain fastener.....	A. J. Lytle.....	359,979	Mar. 22	2328	585	38	1361
Carriage-curtain fastener.....	A. W. Mitchell.....	355,702	Jan. 11	556	146	38	119
Carriage-door.....	J. F. Fallon.....	372,847	Nov. 8	857	229	41	637
Carriage. Folding.....	W. Singer.....	363,427	May 24	1911	502	39	856
Carriage. Folding baby-.....	C. Haller.....	357,382	Feb. 8	923	243	38	602
Carriage. Folding baby-.....	C. Haller.....	368,718	Aug. 23	2001	{ 529 530 }	{ 40 40 }	857
Carriage-iron.....	L. S. and H. W. Lindesmith.....	367,111	July 26	1861	503	40	376
Carriage-irons. Machine for upsetting.....	F. Schreidt.....	373,612	Nov. 22	2026	539	41	875
Carriage-jack.....	R. J. Butterfield.....	369,433	Sept. 6	168	49	40	1063
Carriage-jack.....	W. S. Gibson and L. Stone.....	362,075	May 3	32	10	39	479
Carriage or wagon jack.....	H. Secco.....	360,116	Mar. 29	2572	653	38	1413
Carriage-seat.....	D. B. Murray.....	358,057	Feb. 22	1909	504	38	800
Carriage speaking-tube.....	G. A. Beach.....	356,740	Feb. 1	2	1	38	423
Carriage-spring.....	C. M. Brown.....	363,203	May 17	1609	422	39	790
Carriage-step.....	F. B. Johnson.....	366,111	July 5	487	132	40	92
Carriage-top.....	T. S. Brown.....	363,797	May 31	2457	638	39	967
Carriage-top.....	G. T. Cooley.....	360,208	Mar. 29	2711	685	38	1438
Carriage-top.....	M. F. Eldridge.....	372,367	Nov. 1	126	38	41	494
Carriage-top.....	C. A. Keyser.....	357,485	Feb. 8	1066	281	38	629
Carriage-top.....	C. C. Lawrence.....	363,147	May 17	1533	405	39	775
Carriage-top.....	J. W. Leek.....	375,553	Dec. 27	1968	512	41	1453
Carriage-top.....	C. L. Pritchard.....	366,129	July 5	519	140	40	98
Carriage-top.....	W. M. Ward.....	372,949	Nov. 8	1004	{ 270 271 }	{ 41 41 }	664
Carriage-top brace.....	J. Bauer.....	363,357	May 24	1814	476	39	838
Carriage-top irons. Machine for drilling.....	F. Schreidt.....	373,204	Nov. 15	1406	371	41	747
Carriage-top irons. Machine for filing.....	F. Schreidt.....	373,203	Nov. 15	1403	371	41	746
Carriage-top irons. Machine for rolling.....	F. Schreidt.....	372,711	Nov. 8	628	171	41	599
Carriage-top irons. Machine for rolling.....	F. Schreidt.....	373,613	Nov. 22	2030	540	41	875
Carriage-top irons. Machine for sawing.....	F. Schreidt.....	373,202	Nov. 15	1401	370	41	746
Carriage-top irons. Machine for upsetting.....	F. Schreidt.....	373,614	Nov. 22	2031	{ 540 541 }	{ 41 41 }	875
Carriage-top joints. Spring for.....	W. N. Sewell.....	359,638	Mar. 22	1795	457	38	1265
Carriage-top-operating device.....	W. M. Ward.....	372,948	Nov. 8	1002	270	41	664
Carriage-top prop.....	E. P. Sargent.....	364,045	May 31	2815	730	39	1035
Carriage-top support.....	O. G. Stillman.....	356,899	Feb. 1	222	62	38	462
Carriage-tops. Back-stay fastening for.....	H. E. Horn.....	368,473	Aug. 16	1649	440	40	782
Carriage-wheels. Machine for riveting iron.....	A. P. Ricard.....	374,998	Dec. 20	1211	{ 315 316 }	{ 41 41 }	1298
Carriage-wrench.....	W. Gent.....	360,874	Apr. 12	683	178	39	134
Carriages. Canopy-top for.....	R. F. Krause.....	357,324	Feb. 8	841	219	38	586
Carriages. Device for operating folding heads of.....	G. N. and W. Hooper.....	356,470	Jan. 25	1680	439	38	343
Carriages. Fan attachment for baby-.....	M. H. Connerton.....	365,462	June 28	1841	478	39	1460
Carriages. Gear-iron for.....	J. F. Fallon.....	373,227	Nov. 15	1445	381	41	754
Carriages. Handle for children's.....	W. S. Grove.....	358,392	Feb. 22	2375	632	38	887
Carriages. Locking device for.....	G. R. Peare.....	369,732	Sept. 13	575	157	40	1153
Carriages. Parasol-holder for baby-.....	G. W. Pearce.....	373,477	Nov. 22	1818	484	41	837
Carriages. Storm-apron for.....	A. D. Bastian.....	366,993	July 19	1693	455	40	336
Carrier:							
See Ash-pan carrier. Game-carrier.							
Barrel-carrier. Harvester bundle-carrier.							
Bicycle luggage-carrier. Hay-carrier.							
Bundle-carrier. Mail, parcel, or cash carrier.							
Carboy-carrier. Package-carrier.							
Cash-carrier. Parcel-carrier.							
Cash and package carrier. Parcel or cash carrier.							
Cash and parcel carrier. Pool-table ball-carrier.							
Crock-carrier. Shaft-carrier.							
Dental disk-carrier. Sheaf-carrier.							
Dental-file carrier. Straw-carrier.							
Egg-carrier. Trace-carrier.							
Carrier.....	J. A. Jeffrey.....	374,477	Dec. 6	436	114	41	1129
Carrier for paint, lunch, &c.....	R. G. Johnson.....	372,267	Oct. 25	2221	569	41	457
Carriers. Stretcher for endless.....	S. K. Seelye.....	355,723	Jan. 11	594	155	38	126
Cart.....	F. H. Boni.....	364,474	June 7	381	103	39	1160
Cart.....	H. J. Diggles.....	363,991	May 31	2744	711	39	1020
Cart and buckboard. Combined.....	B. J. Healy.....	371,317	Oct. 11	827	211	41	170
Cart. Dirt.....	S. M. Stevenson.....	366,043	July 5	407	{ 110 111 }	{ 40 40 }	77
Cart. Dump.....	F. H. Evans.....	371,743	Oct. 18	1432	370	41	300
Cart. Dump.....	T. J. Flanigan.....	371,750	Oct. 18	1440	{ 372 373 }	{ 41 41 }	302
Cart. Dump.....	J. G. Frogner.....	374,531	Dec. 6	526	136	41	1146
Cart. Dumping.....	T. J. Flanigan.....	358,192	Feb. 22	2112	557	38	837
Cart. Dumping.....	N. F. Reilly.....	366,428	July 12	911	247	40	181

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cart. Guano-distributing.....	A. Barnes	366,915	July 19	1592	426	40	318
Cart. Lumber.....	T. B. McFaul.....	365,530	June 28	1949	507	39	1483
Cart. Road.....	J. Anderson	365,562	June 28	2001	521	39	1492
Cart. Road.....	R. Ball	361,112	Apr. 12	1029	260	39	196
Cart. Road.....	M. Barnes	373,633	Nov. 22	2058	548	41	881
Cart. Road.....	G. J. Cline	363,727	May 24	2358	612	39	942
Cart. Road.....	A. L. Fellows	363,221	May 17	1633	429	39	794
Cart. Road.....	C. W. and G. H. Jewett and B. F. Nichols	363,241	May 17	1654	434	39	798
Cart. Road.....	M. Katzner, J. Russell, and T. Chase	375,164	Dec. 20	1452	380	41	1344
Cart. Road.....	W. H. and C. A. Makutchan	357,015	Feb. 1	380	101	38	493
Cart. Road.....	H. J. Miller	371,090	Oct. 4	509	128	41	100
Cart. Road.....	T. W. Mudgett	358,404	Feb. 22	2391	635	38	890
Cart. Road.....	O. W. Mumbrue	372,925	Nov. 8	967	263	41	657
Cart. Road.....	G. W. Payne	357,501	Feb. 8	1086	287	38	633
Cart. Road.....	D. C. Plank	369,362	Sept. 6	78	24	40	1049
Cart. Road.....	B. S. Porter	362,460	May 3	549	152	39	580
Cart. Road.....	B. S. and C. W. Porter	374,625	Dec. 13	656	171	41	1183
Cart. Road.....	J. H. Shufelt	367,854	Aug. 9	756	203	40	603
Cart. Road.....	J. Snowley	370,024	Sept. 13	1026	270	40	1235
Cart. Road.....	C. H. Straight and A. J. Jameson	360,180	Mar. 29	2675	675	38	1431
Cart. Road.....	W. Whitaker	359,912	Mar. 22	2226	558	38	1341
Cart. Road.....	J. A. and J. O. White	355,490	Jan. 4	256	68	38	52
Cart. Road.....	J. A. Witmer	371,115	Oct. 4	544	139	41	108
Carts. Thill-equalizer for road.....	J. Percy	358,876	Mar. 8	687	171	38	1035
Carton. Collapsible	W. Wright, Jr.	371,159	Oct. 4	605	155	41	120
Cartridge	H. P. Hursh	372,678	Nov. 8	523	159	41	590
Cartridge-belt.....	J. Nosworthy	356,493	Jan. 25	1716	448	38	351
Cartridge. Blasting.....	J. Heath and W. Frost	358,611	Mar. 1	293	70	38	958
Cartridge-box	J. W. Frazier	368,577	Aug. 23	1795	477	40	818
Cartridge-box	J. W. Frazier	368,578	Aug. 23	1796	478	40	818
Cartridge-box	J. W. Frazier	368,579	Aug. 23	1798	479	40	819
Cartridge-crimper	J. A. Haas	363,955	May 31	2695	698	39	1010
Cartridge. Electric	E. A. Monfort	365,842	July 5	114	32	40	24
Cartridge-extracting implement.....	C. R. Hart	358,928	Mar. 8	763	190	38	1049
Cartridge-holder	J. J. Speed	372,181	Oct. 25	2088	535	41	431
Cartridge implement	J. H. Barlow	364,747	June 14	762	202	39	1240
Cartridge implement	J. H. Barlow	369,833	Sept. 13	714	192	40	1178
Cartridge implement	J. W. Boyd and G. W. Hurlbutt	358,769	Mar. 1	507	124	38	997
Cartridge loader and crimper	B. M. Badger	356,975	Feb. 1	326	87	38	482
Cartridge-loader. Pocket.....	G. W. Morse	361,966	Apr. 26	2275	591	39	445
Cartridge-loading machine	G. Burdick	357,457	Feb. 8	1026	272	33	621
Cartridge-loading machine	W. E. Elam	358,440	Mar. 1	23	8	38	907
Cartridge-loading machine	N. Harrison	365,919	July 5	230	61. 62	40	45
Cartridge-loading machine	H. T. Hazard	358,035	Feb. 22	1868	494	38	792
Cartridge-loading machine	G. M. Peters	360,043	Mar. 29	2438	620 621 622	38	1389
Cartridge-loading machine	G. H. Stahl	366,744	July 19	1370	367	40	276
Cartridge-primer	W. N. Lowell	355,877	Jan. 11	823	215	38	167
Cartridge-shell	P. Butler	364,213	June 7	22	6	39	1092
Cartridge-shell	L. W. Lombard	373,529	Nov. 22	1914	507	41	854
Cartridge-shell holder.....	A. F. Migeon	366,338	July 12	807	217	40	160
Cartridge-shells. Implement for capping.....	J. A. Scott	363,175	May 17	1572	414	39	783
Cartridge-shells. Machine for making.....	J. A. Bradshaw and M. Lapoint	370,761	Oct. 4	11	3, 4	41	5
Cartridge-shells. Tool for interiorly shouldering.....	J. Smith	358,704	Mar. 1	423	102	38	983
Cartridge. Shot.....	A. J. Hobbs	355,530	Jan. 4	303	81	38	61
Cartridges. Gas-check for reloading.....	A. J. Hobbs	357,005	Feb. 1	368	98	38	490
Cartridges. Packing-case for	L. P. Diss	356,276	Jan. 18	1399	369 370	38	283
Carving-fork	F. W. Brittin	370,236	Sept. 20	1331	355	40	1300
Carving-fork and steel. Combined	B. Rush	356,966	Feb. 1	312	85	38	480
Carving meat, &c. Appliance for holding articles in position for Cascade. Artificial.....	F. Bennett.....	361,742	Apr. 26	1934	501	39	384
Case: See Alphabet-case. Organ-case. Banker's case. Packing-case. Book-case. Paper package-case. Bottle-case. Pencil-case. Burial-case. Photograph-case. Butter-case. Photographic-bag case. Cell-case. Piano-case. Cigar or cigarette case. Pigeon-hole case. Pin-case. Cigarette-case. Pin and needle case. Clock-case. Pocket-case. Document-case. Scrap-case. Egg-case. Shipping-case. Eyeglass or spectacle case. Show-case. Stationery-case. File-case. Tape-line case. Filing-case. Ticket-case. Fishing-rod case. Toilet-case. Jewel-case. Umbrella show-case. Map-case. Violin-case. Measure-case. Watch-case. Medicine-case. Writing-case. Medicine or merchandise case.	F. Voreck	356,054	Jan. 11	1082	284	38	218
Case and display-rack. Combined.....	D. J. O'Sullivan	362,035	Apr. 26	2369	617 618	39	462
Case for law-blanks	H. W. Cory	360,999	Apr. 12	878	222	39	167

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cases. Manufacturing jacketed	G. M. Stevens	372,242	Oct. 25	2185	561	41	450
Cash and package carrier	L. G. Bostedo	369,628	Sept. 6	439	{ 122 123	{ 40	1118
Cash and package carrier	L. G. Bostedo	372,592	Nov. 1	452	{ 121 122	{ 41	555
Cash and package carrier	L. G. Bostedo and H. Thomas	367,951	Aug. 9	896	243	40	629
Cash and package carrier	H. M. Weaver	367,874	Aug. 9	780	{ 210 211	{ 40	608
Cash and package carrier	H. M. Weaver	369,218	Aug. 30	2683	713	40	1000
Cash and parcel carrier	E. I. Blount and C. A. Kimpton	361,120	Apr. 12	1043	{ 263 264	{ 39	199
Cash and parcel carrier	J. Burns	373,172	Nov. 15	1348	{ 357 358	{ 41	737
Cash-box	B. C. Foster	374,149	Nov. 29	2792	749	41	1031
Cash-carrier	J. W. Flagg and C. R. B. Claffin, Jr.	360,008	Mar. 29	2379	{ 601 602	{ 38	1377
Cash-carrier	D. Kahnweiler	370,627	Sept. 27	1919	509	40	1417
Cash-carrier	D. E. Kempster	361,702	Apr. 26	1879	487	39	375
Cash-carrier	W. H. Koehler	374,683	Dec. 13	731	192	41	1199
Cash-carrier	J. Starr	359,037	Mar. 8	905	231	38	1076
Cash-carrier	H. Thomas	368,029	Aug. 9	1005	{ 270 271	{ 40	651
Cash-carrier	W. L. Walker	369,038	Aug. 30	2448	649	40	952
Cash-carrier apparatus	S. W. Barr	357,449	Feb. 8	1012	{ 268 269	{ 38	618
Cash-carrier apparatus	D. Lippy	359,875	Mar. 22	2165	{ 546 547	{ 38	1331
Cash-carrier. Pneumatic	M. Barri	367,741	Aug. 2	588	160	40	562
Cash-carrier. Pneumatic	J. L. Given	367,386	Aug. 2	39	11	40	458
Cash-carrier. Pneumatic	J. L. Given	367,753	Aug. 2	604	164	40	565
Cash-carrier. Pneumatic	W. S. Pain	367,724	Aug. 2	567	155	40	558
Cash-carrier. Pneumatic	J. E. Treat	367,769	Aug. 2	631	169	40	569
Cash-carrier. Spring-motor	R. E. Brawn	365,459	June 28	1835	477	39	1458
Cash-carrier track	R. E. Brawn	365,668	June 28	2151	561	39	1519
Cash-carriers. Switch for	H. Thomas	367,121	July 26	1872	507	40	378
Cash-carrying apparatus	D. E. Kempster	361,295	Apr. 19	1306	335	39	259
Cash-carrying apparatus	T. M. Kenney	365,751	June 28	2280	592	39	1543
Cash-carrying apparatus. Elevator for	F. Pope	361,371	Apr. 19	1413	{ 364 365	{ 39	278
Cash indicator and register	W. L. Horne	357,959	Feb. 15	1758	{ 459 460	{ 38	767
Cash indicator and register	J. J. Webster	370,363	Sept. 20	1510	405	40	1335
Cash received. Apparatus for checking and recording	S. Firth	366,389	July 12	871	234	40	172
Cash received. Apparatus for checking and recording	S. Firth	370,692	Sept. 27	2016	{ 535 536 537	{ 40	1435
Cash received. Means for checking	A. Steer	368,557	Aug. 16	1767	{ 469 470	{ 40	804
Cash-register	W. C. McGill	360,360	Mar. 29	2929	{ 744 745	{ 38	1478
Cash-register	W. C. McGill	365,013	June 14	1166	306	39	1312
Cash-register	P. Yoe	361,802	Apr. 26	2026	526	39	400
Cash register and indicator	D. Davis	374,780	Dec. 13	869	{ 228 229	{ 41	1226
Cash register and indicator	C. Hemje	367,141	July 26	1905	{ 514 515	{ 40	383
Cash register and indicator	M. R. Longacre	369,193	Aug. 30	2650	705	40	993
Cash register and indicator	W. H. Maxwell. (Reissue)	10,885	Nov. 29	2810	754	41	1035
Cash-tally	J. C. Fisk	356,227	Jan. 18	1332	352	38	270
Cashiers' windows. Self-closing gate for	W. B. Cannon	368,752	Aug. 23	2043	541	40	865
Cask and preventing the same from leaking	E. Schakat	364,676	June 14	654	175	39	1219
Cask or barrel	I. H. Spelman	368,026	Aug. 9	1002	270	40	650
Cask or tub	G. R. Nafis	356,882	Feb. 1	201	56	38	458
Casks. Bushing for	C. Hammer	363,633	May 24	2224	576	39	916
Casks. Machine for pitching	T. Krausch	357,323	Feb. 8	840	219	38	586
Casks. Tap-valve and tapper for	R. Teichmann	359,039	Mar. 8	906	231	38	1076
Casket-covers, &c. Fastening device for	A. E. Lockhart	360,315	Mar. 29	2864	729	38	1468
Casket-handle	W. H. Blackford	374,110	Nov. 29	2737	734	41	1022
Casket-lowering device	J. H. Beattie	362,243	May 3	252	71	39	522
Caster	J. S. Dignam	357,764	Feb. 15	1510	393	38	720
Caster	T. Goetz	367,387	Aug. 2	42	11	40	459
Caster	L. Gwinner	361,694	Apr. 26	1871	485	39	374
Caster	G. E. Hill	363,637	May 24	2229	577	39	917
Caster	W. Livingstone	369,191	Aug. 30	2647	704	40	993
Caster	C. V. Pleukharp	359,888	Mar. 22	2184	550	38	1334
Caster	W. P. Tracy	357,945	Feb. 15	1743	455	38	764
Caster	H. A. Witherell	367,329	July 26	2178	586	40	435
Caster. Ball	A. Rix	372,387	Nov. 1	156	45	41	499
Caster. Furniture	C. A. Bertsch	370,369	Sept. 27	1524	409	40	1345
Caster. Furniture	R. Cloughton	363,047	May 17	1397	369	39	748
Caster. Furniture	E. Hamburjer	365,809	July 5	71	21	40	15
Caster. Furniture	L. T. Lawton	358,206	Feb. 22	2128	561	38	840
Caster. Furniture	W. Livingstone	370,270	Sept. 20	1377	369	40	1309
Caster. Furniture	O. Pederson	368,110	Aug. 9	1117	296	40	671
Caster. Furniture	L. Scofield	357,340	Feb. 8	860	226	38	590
Caster-pod	C. V. Pleukharp	359,362	Mar. 15	1343	347	38	1165
Caster. Trunk	J. Loos	356,483	Jan. 25	1705	445	38	348
Caster. Trunk or furniture	S. M. Michelson	374,420	Dec. 6	352	92	41	1113
Casting and finishing type. Machine for	L. and A. Foucher	359,779	Mar. 22	2014	{ 509 510	{ 38	1303
Casting apparatus. Pipe	D. Giles	358,927	Mar. 8	762	190	38	1049
Casting brass. Mold for	W. Adams	367,774	Aug. 9	643	173	40	581

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Casting car-wheels.....	W. Wilmington.....	358,765	Mar. 1	502	123	38	997
Casting car-wheels.....	W. Wilmington.....	363,444	May 24	1935	508	39	861
Casting car-wheels.....	W. Wilmington. (Reissue).....	10,850	July 12	1229	327	40	242
Casting car-wheels. Chill for.....	J. R. Whitney. (Reissue).....	10,804	Feb. 1	631	163	38	538
Casting chains. Mold for.....	W. Penman.....	375,567	Dec. 27	1985	517	41	1456
Casting compound ingots. Mold or apparatus for.....	E. Wheeler.....	363,032	May 17	1377	364	39	744
Casting diamond-tools. Mold for.....	T. A. Jackson.....	356,132	Jan. 18	1210	321	38	247
Casting ingots, bars, &c. Apparatus for.....	F. H. Daniels.....	359,349	Mar. 15	1322	{ 343 344 }	{ 38 38 }	{ 1161 1161 }
Casting ingots. Smoking molds in.....	J. Illingworth.....	373,186	Nov. 15	1374	364	41	741
Casting lead seals. Apparatus for.....	T. Conners.....	375,313	Dec. 20	1643	{ 430 431 }	{ 41 41 }	{ 1381 1381 }
Casting lettered plates.....	W. Pathie.....	360,905	Apr. 12	725	191	39	142
Casting-machine.....	C. O. Yale.....	373,629	Nov. 22	2054	547	41	8:0
Casting machine. Zinc.....	J. J. Smith and C. A. Janson.....	375,211	Dec. 20	1511	{ 396 397 }	{ 41 41 }	{ 1356 1356 }
Casting. Manufacture of molds for.....	R. Bagaley.....	357,303	Feb. 8	819	{ 212 213 }	{ 38 38 }	{ 582 582 }
Casting metal. Device for.....	R. A. Register.....	366,254	July 12	697	189	40	139
Casting metallic articles. Mold for.....	C. E. Stevens.....	356,669	Jan. 25	1961	515	38	397
Casting. Mold for.....	A. E. Outerbridge, Jr.....	358,365	Feb. 22	2336	.....	38	880
Casting pipes. Mold for.....	J. A. Brinell.....	373,551	Nov. 22	1942	515	41	858
Casting plumbers' traps. Apparatus for.....	C. E. Heiss.....	362,624	May 10	791	217	39	627
Casting plumbers' traps. Apparatus for.....	G. W. Wicks.....	359,754	Mar. 22	1968	499	38	1296
Casting printers' leads and small furniture. Mold for.....	G. F. Kimball.....	359,021	Mar. 8	889	226	38	1072
Casting printers' leads. Mold for.....	H. F. Wellman.....	358,585	Mar. 1	257	60	38	951
Casting rivets. Mold for.....	J. Whitley.....	359,484	Mar. 15	1531	{ 391 392 }	{ 38 38 }	{ 1300 1300 }
Casting steel wheels. Metal mold for.....	W. Sellers.....	372,336	Nov. 1	74	22, 23	41	485
Casting teeth of diamond saws. Mold for.....	T. A. Jackson.....	361,012	Apr. 12	895	226	39	170
Casting tube-heads. Mold for.....	A. H. Raynal.....	361,373	Apr. 19	1415	365	39	279
Casting tubes. Revolving and tilting mold for.....	G. Adams.....	368,746	Aug. 23	2033	538	40	864
Castings. Apparatus for the production of sound.....	J. Irwin, Jr.....	359,974	Mar. 22	2323	584	38	1360
Castings. Device for truing metal.....	H. Rung.....	373,855	Nov. 29	2373	638	41	951
Castings. Making metal.....	J. Walker.....	362,337	May 3	369	102	39	546
Castings. Mold for the production of metallic.....	J. Whitley.....	359,483	Mar. 15	1530	391	38	1200
Catamenial bandage.....	W. B. Robinson.....	370,415	Sept. 27	1592	425	40	1357
Catamenial sack.....	A. V. Robinson.....	366,256	July 12	699	190	40	140
Catarrh remedy.....	W. H. Thomas.....	369,266	Aug. 30	2748	.....	40	1012
Catch. Safety.....	J. Dunstan.....	369,399	Sept. 6	123	36	40	1055
Cattle. Apparatus for use in dehorning.....	W. H. Richards.....	371,477	Oct. 11	1044	272	41	212
Cattle-guard.....	P. P. Linder and R. P. Bryant.....	360,599	Apr. 5	301	74	39	58
Cattle horn-tip.....	P. Johnson.....	373,776	Nov. 22	2259	605	41	920
Cattle-tie.....	E. R. Michaelis.....	366,971	July 19	1666	448	40	332
Cattle tie and halter.....	G. D. Munsing.....	357,728	Feb. 15	1447	379	38	708
Cavity drill or reamer.....	J. Greek.....	372,463	Nov. 1	267	74	41	521
Ceiling. Sheet-metal or paper.....	C. B. Niehaus.....	358,405	Feb. 22	2391	636	38	890
Ceiling, wall, or panel. Sheet-metal.....	F. Mesker.....	361,438	Apr. 19	1503	387	39	295
Celery. Blanching.....	H. G. Lee.....	357,610	Feb. 15	1264	332	38	676
Celery-collar.....	G. W. Rugg.....	361,241	Apr. 12	1234	314	39	234
Cell case.....	E. C. Bower.....	362,711	May 10	913	249	39	651
Cellular furnace for baking carbons.....	J. Hill.....	359,866	Mar. 22	2154	{ 543 544 }	{ 38 38 }	{ 1329 1329 }
Celluloid. Die for molding mouth-pieces for whistles, &c., of.....	J. A. Furman.....	365,768	June 28	2301	598	39	1548
Celluloid or analogous material. Die for molding hollow articles of.....	J. A. Furman.....	369,784	Sept. 13	642	{ 173 174 }	{ 40 40 }	{ 1165 1165 }
Celluloid. Producing designs upon.....	A. Le Roy.....	370,546	Sept. 27	1789	.....	40	1393
Cellulose. Apparatus for manufacturing sulphite.....	H. Schnurmann and G. Closs.....	360,484	Apr. 5	127	31	39	24
Cement.....	E. Densmore.....	358,338	Feb. 22	2297	.....	38	873
Cement.....	L. Lichtentag.....	363,402	May 24	1870	.....	39	848
Cement. Apparatus for producing.....	W. Sonnet.....	371,715	Oct. 18	1394	{ 359 360 }	{ 41 41 }	{ 292 292 }
Cement-coated nail.....	I. Copeland.....	362,940	May 17	1242	330	39	718
Cement. Hydraulic and other.....	R. Bosse, E. Freise, and F. Wolters.....	375,599	Dec. 27	2033	528	41	1404
Cement. Manufacture of.....	S. Lowden.....	373,992	Nov. 29	2568	.....	41	988
Cement. Manufacture of.....	A. C. Schulz.....	368,552	Aug. 16	1761	.....	40	803
Cement. Preparing.....	A. Bonnet.....	368,449	Aug. 16	1615	.....	40	776
Cement. Roofing.....	H. Frei.....	364,405	June 7	278	.....	39	1141
Center-board fitting for boats.....	E. H. Barney.....	362,702	May 10	905	246	39	649
Center-board for vessels.....	T. R. Brough.....	367,593	Aug. 2	345	98	40	517
Center-board wells. Calking the seams of.....	A. F. Stubbs.....	370,663	Sept. 27	1969	521	40	1426
Center-marking device.....	B. F. T. Bell.....	364,082	May 31	2860	742	39	1044
Centering device.....	H. P. Wellman.....	372,730	Nov. 8	661	181	41	605
Centering-machine.....	A. Wood and G. Place.....	363,874	May 31	2566	666	39	987
Centrifugal fountain. Portable.....	W. N. Best.....	370,922	Oct. 4	277	68	41	55
Centrifugal machine.....	S. S. Barrie.....	373,577	Nov. 22	1979	525	41	865
Centrifugal machine.....	R. B. Lafferty.....	364,941	June 14	1066	278	39	1294
Centrifugal machines. Apparatus for working.....	G. De Laval.....	368,328	Aug. 16	1436	381	40	741
Centrifugal machines. Journal-bearing for.....	J. C. Poland.....	370,887	Oct. 4	213	54	41	42
Centrifugal machines. Motor for operating.....	G. De Laval.....	356,990	Feb. 1	344	91	38	486
Centrifugal separator.....	J. Evans.....	360,342	Mar. 29	2897	738	38	1473
Cereals, &c. Machine for reducing.....	V. Ryerson.....	368,900	Aug. 23	2245	597	40	905
Cereals. Preparing.....	J. F. Gent.....	372,065	Oct. 25	1915	.....	41	400
Chain.....	W. D. Ewart.....	374,148	Nov. 29	2790	749	41	1031
Chain.....	R. E. Gleason.....	372,613	Nov. 1	483	131	41	561
Chain.....	J. M. Marlin.....	371,607	Oct. 18	1232	321	41	259
Chain.....	E. Vieille.....	359,413	Mar. 15	1427	365	38	1181
Chain and chain-making.....	J. A. Jeffrey.....	373,983	Nov. 29	2555	687	41	985
Chain and lever power.....	O. H. Smith.....	362,671	May 10	860	235	39	640
Chain and pen and pencil holder. Combination watch.....	N. Frere.....	367,804	Aug. 9	689	186	40	589
Chain attachment. Watch.....	F. W. Brueckner.....	362,718	May 10	926	252	39	653
Chain bar. Watch.....	H. M. Herring.....	358,858	Mar. 8	663	165	38	1031

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Chain-bolt	E. T. Schoonmaker	356,556	Jan. 25	1808	473	38	367
Chain. Drive	H. H. Doubleday	371,929	Oct. 25	1712	443	41	364
Chain. Drive	M. Garland	365,123	June 21	1345	356	39	1354
Chain. Drive	J. A. Jeffrey	366,587	July 12	1148	307	40	228
Chain. Drive	B. A. Legg	364,117	May 31	2907	754	39	1053
Chain. Drive	B. A. Legg	375,296	Dec. 20	1613	423	41	1376
Chain. Drive	N. P. Levalley	357,611	Feb. 15	1265	333	38	676
Chain. Drive	C. W. Miller	355,549	Jan. 4	331	88	38	67
Chain. Drive	W. Morgan	355,620	Jan. 4	422	116	38	84
Chain. Drive	W. J. Perkins	359,029	Mar. 8	897	229	38	1074
Chain. Drive	J. Seibel	373,615	Nov. 22	2033	541	41	875
Chain elevator. Endless	C. Chase	362,571	May 10	704	{ 196 197 }	{ 39 38 }	612
Chain for transmitting motion	H. P. Mallison	356,324	Jan. 18	1474	388	38	296
Chain hook. Watch	H. M. Herring	372,675	Nov. 8	581	158	41	590
Chain link. Horse-power	W. H. and J. Butterworth, Jr	372,252	Oct. 25	2201	564	41	453
Chain link or coupler	F. Armstrong	370,918	Oct. 4	272	67	41	54
Chain-links. Machine for sorting and finishing	J. D. Storie	369,620	Sept. 6	428	120	40	1116
Chain-links. Making	J. Kinder	355,455	Jan. 4	208	55	38	42
Chain-lock	I. A. Sherman	374,710	Dec. 13	774	203	41	1207
Chain-making machine	E. B. Bullock	373,552	Nov. 22	1943	{ 515 516 }	{ 41 39 }	858
Chain. Ornamental	S. O. Bigney	365,115	June 21	1330	352	39	1352
Chain. Ornamental	E. H. Dunham	364,582	June 7	535	143	39	1189
Chain. Sash	G. T. Moore	357,620	Feb. 15	1278	335	38	678
Chain. Watch	H. Fritsche	369,053	Aug. 30	2476	657	40	958
Chain-wheel	J. M. Dodge	355,513	Jan. 4	281	75	38	57
Chain-wheel	J. M. Dodge	358,258	Feb. 22	2192	577	38	852
Chain-wheel	J. M. Dodge	358,771	Mar. 1	511	125	38	998
Chain-wheel	J. M. Dodge	366,819	July 19	1470	392	40	294
Chain. Wire	R. A. Breul	359,054	Mar. 8	930	237	38	1081
Chain. Wire	A. Schilling	365,543	June 28	1964	512	39	1486
Chain-wrench	W. H. Brock	366,451	July 12	941	257	40	187
Chain-wrench	W. H. Brock	375,119	Dec. 20	1388	361	41	1330
Chain-wrench	M. Quiulan	373,603	Nov. 22	2015	535	41	872
Chains. Construction of	J. Kinder	355,454	Jan. 4	206	55	38	42
Chains. Link for connecting	R. A. Breul	375,045	Dec. 20	1276	333	41	1309
Chains. Machine for making sheet-metal	R. A. Breul	368,275	Aug. 16	1368	{ 360 361 362 }	{ 40 39 38 }	727
Chains. Testing	W. D. Ewar	371,744	Oct. 18	1433	371	41	300
Chains. Testing	W. D. Ewart	371,745	Oct. 18	1434	371	41	300
Chains. Testing	W. D. Ewart	372,609	Nov. 1	476	129	41	560
Chains, &c. Testing tensile strength of	W. Kent	357,715	Feb. 15	1423	373	38	704
Chair:							
See Adjustable chair. Photographer's chair.							
Barber's chair. Rail-chair.							
Cabinet-chair. Railway-chair.							
Child's chair. Railway-rail chair.							
Commode-chair. Railway T-chair.							
Convertible chair. Reclining-chair.							
Dental chair. Reclining and reversible chair.							
Dress-maker's fitting-chair. Rocking-chair.							
Extension-chair. Surgical chair.							
Folding chair. Swinging chair.							
Hammock-chair. Switch-chair.							
Invalid-chair. Theater-chair.							
Iron chair. Tilting-chair.							
Opera-chair. Tilting and reclining chair.							
Opera or school chair. Window-chair.							
Operating-chair. Window-chair.							
Chair	P. Charbonneau	361,615	Apr. 19	1744	451	39	341
Chair	A. D. Crocker	367,702	Aug. 2	518	142	40	549
Chair	L. De Lill	368,520	Aug. 16	1712	457	40	794
Chair	G. M. Fiske	373,555	Nov. 22	1948	517	41	859
Chair	J. Harrington	360,589	Apr. 5	289	70	39	55
Chair	S. Hayward	374,250	Dec. 6	113	28, 29	41	1068
Chair	S. Hayward	374,251	Dec. 6	115	29	41	1069
Chair	S. Hayward	375,448	Dec. 27	1826	477	41	1426
Chair	G. Hunzinger	357,388	Feb. 8	932	245	38	604
Chair	J. Lueders	358,466	Mar. 1	62	16	38	915
Chair	J. A. Rosen	375,570	Dec. 27	1991	518	41	1457
Chair	W. C. Tait	362,796	May 10	1043	284	39	674
Chair	W. I. Wilbur	367,485	Aug. 2	184	51	40	486
Chair	J. Nichols	375,300	Dec. 20	1622	424	41	1378
Chair and carriage. Combined	J. Ridenour	365,862	July 5	147	39	40	30
Chair and cradle. Child's combined rocking	G. Hamel	357,383	Feb. 8	924	{ 243 244 }	{ 38 39 }	602
Chair and lounge. Combined	G. P. Schaaf	365,637	June 28	2102	548	39	1511
Chair and step-ladder. Combined	E. H. Taliaferro	366,525	July 12	1051	286	40	209
Chair attachment	G. J. Shults	360,622	Apr. 5	333	82	39	63
Chair-back. Adjustable	F. Binder	375,471	Dec. 27	1854	485	41	1431
Chair-back and head-rest	W. J. Cowing	363,211	May 17	1618	425	39	791
Chair-back-support	R. Mitchell	357,405	Feb. 8	953	251	38	607
Chair-bottom	E. T. Wade	366,048	July 5	413	112	40	78
Chair-bottom	G. Remaly	374,997	Dec. 20	1210	315	41	1298
Chair-brace	J. F. Sargent	359,891	Mar. 22	2187	{ 551 552 }	{ 38 39 }	1335
Chair, cabinet, and desk. Combined	H. A. Luft	361,882	Apr. 26	2150	558	39	423
Chair-guide	G. Feldkamp	355,689	Jan. 11	540	142	38	115
Chair iron. Tilting	E. J. Schumacher	366,262	July 12	706	191	40	141
Chair-seat	B. J. Buckman	373,582	Nov. 22	1984	527	41	865
Chair-seat	M. Pennybacker	356,012	Jan. 11	1023	269	38	207

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr's.	Vol.	Page.
Chairs. Adjustable foot-rest for.....	J. Hogan.....	358,154	Feb. 22	2051	{ 539 540	{ 38	825
Chairs, desks, and other articles of furniture. Sup- port for.....	G. J. J. Luther.....	356,074	Jan. 11	1113	{ 294 295	{ 38	223
Chairs. Head-rest for.....	J. Hogan.....	369,854	Sept. 13	750	201	40	1185
Chairs. Leg-rest for.....	J. M. Babka.....	361,804	Apr. 26	2028	527	39	401
Chairs. Spring for base-rocking.....	A. B. Stevens.....	369,133	Aug. 30	2579	685	40	979
Chalk-holder.....	P. B. Reeves.....	371,150	Oct. 4	592	152	41	116
Chalk-suspender.....	D. W. Seely.....	365,867	July 5	155	40	40	31
Chamber-vessel.....	J. A. Davis.....	372,063	Oct. 25	1913	493	41	399
Chamois-skin with rouge. Impregnating.....	J. E. Darby and E. Blakeslee.....	372,207	Oct. 25	2132	.....	41	440
Chance device.....	W. Heston and J. M. Akers.....	369,404	Sept. 6	133	38	40	1057
Chandeliers. Extension-support for.....	A. M. Southard.....	355,845	Jan. 11	770	202	38	157
Channel-flap-laying machine.....	O. Gilmore.....	364,757	June 14	789	208	39	1243
Charcoal-kiln.....	J. E. McNaughton.....	360,238	Mar. 29	2758	699	38	1447
Charring logs. Device for.....	J. D. Stanley.....	361,193	Apr. 12	1165	295	39	221
Charring surfaces of timber. Device for.....	J. D. Stanley.....	361,095	Apr. 12	1010	255	39	193
Chart. Dress-cutting.....	T. Hawkins.....	362,378	May 3	428	119	39	558
Charts. Device for exhibiting school.....	J. D. McMeen.....	374,486	Dec. 6	453	117	41	1132
Check. Baggage.....	H. A. Deraismes.....	370,455	Sept. 27	1654	441	40	1368
Check. Baggage.....	C. M. Drinker.....	362,882	May 10	1151	309	39	694
Check, draft, or money-order.....	E. Goodall.....	373,734	Nov. 22	2197	587	41	910
Check-hook.....	J. B. Higgins.....	367,810	Aug. 9	696	188	40	590
Check-hook.....	W. R. Miller.....	364,276	June 7	102	29	39	1108
Check-hook.....	J. A. Olson.....	360,462	Apr. 5	95	24	39	19
Check-hook. Harness.....	P. Penner.....	362,533	May 10	651	183	39	603
Check-hook. Pad.....	J. M. Basinger.....	367,587	Aug. 2	337	96	40	516
Check-register.....	J. H. Guest.....	373,397	Nov. 15	1691	{ 448 449 450	{ 41	800
Check-register and coin-counter.....	V. A. Krepps.....	357,557	Feb. 8	1184	312	38	651
Check-row attachment.....	J. W. Barber.....	362,924	May 17	1220	325	39	713
Check-row wire.....	W. W. Dunn.....	375,275	Dec. 20	1591	.....	41	1372
Check-rower.....	M. W. and D. M. Leonard.....	364,118	May 31	2908	754	39	1053
Check-rower and corn-planter.....	J. Marco.....	365,397	June 28	1748	453	39	1443
Check-rower and drill combined. Wheel.....	L. H. Ward.....	369,974	Sept. 13	948	250	40	1221
Check-rower, grain-planter, and cultivator. Com- bined.....	J. W. Doyle.....	374,460	Dec. 6	418	{ 108 109	{ 41	1125
Checking apparatus.....	P. Everitt.....	359,924	Mar. 22	2239	{ 563 564	{ 38	1345
Checkrein-bar.....	D. A. De Nisi.....	375,477	Dec. 27	1863	486	41	1433
Checkrein. Harness.....	P. A. Smith.....	357,794	Feb. 15	1545	402	38	726
Checkrein-holder.....	W. B. Moore and W. A. McMann.....	371,964	Oct. 25	1763	457	41	373
Cheese-cutting device.....	H. G. Wilson.....	367,689	Aug. 2	498	{ 137 138	{ 40	545
Cheese-knife.....	H. M. Handshy.....	363,822	May 31	2492	647	39	973
Cheese-machine.....	C. and T. Holly.....	372,149	Oct. 25	2047	524	41	423
Cheese-vat.....	R. Olp.....	364,128	May 31	2931	{ 761 762	{ 39	1057
Chemical energy into electrical energy. Convert- ing.....	W. E. Case.....	368,190	Aug. 16	1234	330	40	701
Chenille.....	F. Landenberger.....	368,722	Aug. 23	2006	531	40	858
Chenille-machine.....	T. Johnson.....	366,729	July 19	1353	362	40	273
Chenille. Machine for making.....	F. Landenberger.....	370,148	Sept. 20	1212	322	40	1278
Chenille ornament.....	S. Green.....	358,606	Mar. 1	289	69	38	957
Chessman.....	L. S. Schmitthenner.....	361,721	Apr. 26	1908	{ 494 495	{ 39	380
Chest: See Flour and meal chest.							
Chickens. Feed and water tray for.....	H. J. Mouzon.....	366,499	July 12	1004	274	40	200
Child's chair.....	J. A. Crandall.....	370,530	Sept. 27	1769	{ 471 472	{ 40	1388
Chill.....	J. R. Whitney.....	358,094	Feb. 22	1959	518	38	809
Chill-mold.....	J. W. Seigh.....	362,545	May 10	670	188	39	607
Chimes-frame.....	T. Brabson.....	358,725	Mar. 1	452	110	38	988
Chimes-releasing mechanism.....	R. B. Carr.....	360,203	Mar. 29	2704	683	38	1137
Chimney.....	J. A. Hodel.....	363,236	May 17	1648	433	39	797
Chimney.....	J. E. Twiname.....	360,332	Mar. 29	2885	734	38	1471
Chimney-cap.....	T. W. Emery and W. Spence.....	372,017	Oct. 25	1836	475	41	386
Chimney-cap.....	H. F. Henry.....	361,871	Apr. 26	2134	553	39	420
Chimney-cap.....	J. E. McKenna.....	357,017	Feb. 1	383	102	38	493
Chimney-cap.....	P. Melander.....	355,944	Jan. 11	930	243	38	189
Chimney-cleaner.....	M. O'Neill.....	369,993	Sept. 13	973	257	40	1226
Chimney-cleaning apparatus.....	G. Harvey.....	363,893	May 31	2588	672	39	991
Chimney-cowl.....	C. W. Ackermann.....	357,355	Feb. 8	880	231	38	593
Chimney cowl and ventilator.....	W. B. Crowther, Sr.....	357,269	Feb. 8	772	200	38	573
Chimney-thimble.....	P. D. Sexton.....	370,420	Sept. 27	1597	427	40	1358
Chimney-top.....	G. Turner.....	363,778	May 24	2425	629	39	955
Chimneys. Device for cleaning.....	J. W. Gibson.....	361,502	Apr. 19	1581	410	39	310
Chimneys. Means for preventing smoke from.....	P. Oriolle, Fils.....	368,682	Aug. 23	1938	515	40	847
Chisel.....	J. E. Donaldson.....	361,145	Apr. 12	1086	275	39	206
Chisel-cutter for sash and blinds.....	J. Steele.....	368,556	Aug. 16	1767	469	40	804
Chlorine by electrolysis. Obtaining.....	D. G. Fitz-Gerald.....	357,659	Feb. 15	1343	353	38	689
Chop grader and purifier.....	J. R. Davis, Jr.....	372,015	Oct. 25	1831	{ 474 475	{ 41	385
Chopper: See Cotton-chopper. Stalk or weed chopper.							
Christmas-tree holder.....	M. Bayer.....	355,856	Jan. 11	786	{ 206 207	{ 38	160
Christmas-tree ornament.....	G. W. Landenberger.....	362,017	Apr. 26	2346	611	39	458
Chronometers. Thermometer attachment for ships'.....	T. C. McLean.....	370,400	Sept. 27	1570	{ 420 421	{ 40	1353
Chuck.....	S. B. Ardrey.....	358,916	Mar. 8	748	{ 185 186	{ 38	1047

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Chuck.....	B. F. Chappell.....	374,732	Dec. 13	803	211	41	1213
Chuck.....	J. Johnston.....	371,762	Oct. 18	1456	{ 376 377 }	{ 41 41 }	305
Chuck.....	G. L. Jones.....	366,485	July 12	985	267	40	195
Chuck.....	L. D. Jones.....	374,743	Dec. 13	818	215	41	1216
Chuck.....	J. L. Kirkpatrick.....	357,394	Feb. 8	937	246	38	605
Chuck.....	F. C. Larger.....	371,954	Oct. 25	1744	452	41	370
Chuck.....	A. E. Stearns and S. A. Waterstreet.....	363,431	May 24	1917	503	39	857
Chuck.....	F. W. Taylor.....	368,693	Aug. 23	1956	{ 519 520 }	{ 40 40 }	850
Chuck. Drill.....	C. L. Butler.....	356,616	Jan. 25	1895	497	38	384
Chuck. Drill.....	J. Dixey, C. Gronberg, and P. Hyden.....	375,139	Dec. 20	1417	369	41	1336
Chuck. Drill.....	A. D. Goodell.....	374,593	Dec. 13	611	159	41	1174
Chuck. Drill.....	A. D. Goodell.....	374,594	Dec. 13	612	160	41	1174
Chuck. Drill.....	J. F. Strange.....	362,043	Apr. 26	2379	620	39	464
Chuck for watch-movement plates.....	C. V. Woerd.....	372,002	Oct. 25	1812	469	41	382
Chuck-indicator attachment.....	C. O. Wilder.....	369,489	Sept. 6	238	67	40	1079
Chuck-jaw.....	J. M. Palmer.....	368,965	Aug. 30	2349	623	40	932
Chuck. Lathe.....	W. Beers.....	361,668	Apr. 26	1838	476	39	368
Chuck. Lathe.....	A. F. Cushman.....	371,926	Oct. 25	1705	442	41	362
Chuck. Lathe.....	F. L. Gregory.....	374,405	Dec. 6	330	86, 87	41	1109
Chuck. Lathe.....	C. R. Mead.....	372,482	Nov. 1	291	80	41	526
Chuck. Lathe.....	J. T. Paget.....	370,083	Sept. 20	1113	295	40	1259
Chuck. Lathe.....	E. Shaw.....	375,011	Dec. 20	1228	321	41	1301
Chuck. Lathe.....	J. H. Westcott.....	357,437	Feb. 8	994	261	38	615
Chuck. Lathe.....	L. E. Whiton.....	366,749	July 19	1380	369	40	278
Chuck. Lathe.....	L. E. Whiton.....	369,758	Sept. 13	604	164	40	1158
Chuck. Planer.....	E. Shaw.....	372,714	Nov. 8	633	{ 172 173 }	{ 41 41 }	600
Chuck. Rock-drill.....	J. B. Maas.....	368,295	Aug. 16	1399	369	40	733
Chuck. Screw-tap.....	W. A. Pearn.....	357,025	Feb. 1	393	106	38	495
Churches. Seat for.....	E. G. Durant.....	365,464	June 28	1842	479	39	1460
Churn.....	G. Backster, Jr., and J. F. Reiff.....	373,511	Nov. 22	1890	501	41	849
Churn.....	C. Bennet.....	369,426	Sept. 6	161	47	40	1062
Churn.....	R. C. Boekler.....	364,793	June 14	852	223	39	1254
Churn.....	J. W. Boyd.....	364,476	June 7	383	104	39	1160
Churn.....	R. H. Browning.....	374,774	Dec. 13	862	227	41	1225
Churn.....	T. J. Catchings.....	365,364	June 28	1686	440	39	1431
Churn.....	A. V. Cook.....	363,450	May 24	1945	509	39	862
Churn.....	J. M. Curtice.....	366,157	July 5	551	142	40	104
Churn.....	C. C. Davis.....	356,625	Jan. 25	1910	501	38	387
Churn.....	R. Deighton.....	367,603	Aug. 2	360	102	40	520
Churn.....	J. N. Draughon.....	356,105	Jan. 18	1172	310	38	240
Churn.....	A. M. Dunn.....	367,797	Aug. 9	680	184	40	587
Churn.....	J. H. Elward.....	361,150	Apr. 12	1105	280	39	210
Churn.....	M. V. Ensley.....	368,708	Aug. 23	1978	525	40	853
Churn.....	J. P. Ferrenburg.....	367,284	July 26	2116	570	40	423
Churn.....	E. S. Gibbs.....	357,661	Feb. 15	1345	354	38	690
Churn.....	A. Haessly.....	362,505	May 10	615	173	39	597
Churn.....	H. Heitkamp.....	372,751	Nov. 8	688	190	41	610
Churn.....	O. Hilton.....	360,299	Mar. 29	2846	724	38	1464
Churn.....	E. H. Inzer.....	357,602	Feb. 15	1256	330	38	674
Churn.....	J. A. Irons.....	364,937	June 14	1061	277	39	1293
Churn.....	J. Keller.....	359,978	Mar. 22	2327	585	38	1361
Churn.....	J. A. Laughery.....	357,013	Feb. 1	378	101	38	492
Churn.....	H. P. Markley.....	358,048	Feb. 22	1895	501	38	798
Churn.....	A. A. McGinnis.....	365,445	June 28	1817	473	39	1455
Churn.....	B. W. Mitchell and E. Rosser.....	359,881	Mar. 22	2176	548	38	1333
Churn.....	A. F. Morey.....	356,694	Jan. 25	1992	523	38	403
Churn.....	M. E. Morgan.....	367,431	Aug. 2	101	27	40	470
Churn.....	B. F. Nelson.....	374,991	Dec. 20	1204	313	41	1297
Churn.....	W. W. Perkins.....	374,753	Dec. 13	830	218	41	1218
Churn.....	W. S. Phelps and C. D. Drake.....	368,233	Aug. 16	1310	345	40	715
Churn.....	R. G. Ping.....	357,027	Feb. 1	398	107	38	495
Churn.....	W. W. Ritchey.....	361,186	Apr. 12	1151	290	39	218
Churn.....	J. N. Schwalen.....	362,543	May 10	667	187	39	606
Churn.....	R. A. Shepherd.....	364,308	June 7	141	40	39	1115
Churn.....	I. L. Singer.....	361,458	Apr. 19	1526	395	39	300
Churn.....	E. A. Smith.....	360,485	Apr. 5	129	31	39	25
Churn.....	G. W. Snadon.....	375,430	Dec. 27	1798	470	41	1420
Churn.....	D. Snyder.....	365,205	June 21	1450	382	39	1375
Churn.....	B. F. Staggs.....	362,401	May 3	457	126	39	564
Churn.....	S. J. Sullivan.....	359,645	Mar. 22	1804	{ 458 459 }	{ 38 38 }	1267
Churn.....	W. H. Talley.....	357,247	Feb. 8	738	191	38	566
Churn.....	H. J. Wagner.....	373,113	Nov. 15	1255	333	41	721
Churn.....	E. Wayland.....	360,636	Apr. 5	347	87	39	66
Churn.....	M. Wilbur.....	366,055	July 5	419	114	40	79
Churn.....	W. A. Zietzke and H. C. Summers.....	364,744	June 14	757	201	39	1239
Churn.....	B. Zipperlen.....	362,195	May 3	186	56	39	510
Churn and ice-cream freezer. Combined.....	A. Tschuor.....	366,985	July 19	1684	{ 452 453 }	{ 40 40 }	335
Churn. Atmospheric.....	F. Farley.....	362,373	May 3	423	118	39	557
Churn-cover.....	M. N. Castleman.....	361,208	Apr. 12	1188	301	39	225
Churn. Cream-testing.....	F. B. Fargo.....	369,782	Sept. 13	639	173	40	1164
Churn. Cream-testing.....	D. E. Sage and J. M. Burnap.....	370,822	Oct. 4	95	26	41	20
Churn-dasher.....	C. Berst.....	362,416	May 3	486	137	39	569
Churn-dasher.....	L. B. Brown.....	370,724	Sept. 27	2070	549	40	1445
Churn-dasher.....	L. D. Bunce.....	369,583	Sept. 6	371	103	40	1105
Churn-dasher.....	M. O. Dolson.....	360,209	Mar. 29	2711	685	38	1438
Churn-dasher.....	S. C. Harrison.....	363,231	May 17	1642	431	39	796
Churn-dasher.....	J. L. Maxwell.....	358,684	Mar. 1	394	94, 95	38	977
Churn-dasher.....	M. F. Vernon and O. L. Reeves.....	363,779	May 24	2426	630	39	955
Churn-dasher. Mechanism for operating.....	J. M. Flack.....	359,145	Mar. 8	1042	271	38	1103

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Churn-dashers. Operating	I. W. Stuart	356,737	Jan. 25	2053	539	38	414
Churn-lid clamp	L. K. Koontz	372,853	Nov. 8	864	231	41	639
Churn-motor	M. F. Connett	363,807	May 31	2473	642	39	970
Churn-motor	G. De Laval	368,327	Aug. 16	1435	{ 380 } 381	{ 40 } 39	741
Churn-motor	M. E. Johnson	361,421	Apr. 19	1480	382	39	291
Churn-motor	E. L. Prall	358,569	Mar. 1	236	54	38	947
Churn-motor	G. W. Thomson	362,797	May 10	1045	284	39	674
Churn-power	A. G. Butler	371,487	Oct. 11	1054	275	41	214
Churn-power	J. W. Casteel	358,334	Feb. 22	2293	605	38	872
Churn. Reciprocating	J. D. Stobaugh	364,383	June 7	240	68	39	1134
Churn. Rotary	C. M. Donelson	364,398	June 7	259	74	39	1138
Churns. Means for operating	G. B. Webb	371,113	Oct. 4	542	138	41	107
Chute	W. O. and J. O. V. Wise	365,421	June 28	1777	462	39	1448
Chute. Dust	W. McHose	374,197	Dec. 6	45	12	41	1055
Chute for cleaning coal	P. F. Henigan	361,517	Apr. 19	1601	415	39	315
Chute for farm-wagons. Stock	B. F. Watson	365,657	June 28	2138	558	39	1517
Chute. Stock	W. Hess	365,998	July 5	338	90	40	65
Chute. Vertical	J. N. Briggs	369,390	Sept. 6	112	33	40	1054
Cider and other expressed juices. Clarifying	A. Algoever	358,320	Feb. 22	2277	.....	38	869
Cider-mill	W. G. Gray	366,165	July 5	560	151	40	105
Cider-mill	G. W. Sanor	358,989	Mar. 8	844	{ 213 } 214	{ 38 } 39	1064
Cider-mill grinder and press	W. Seymour	360,331	Mar. 29	2883	734	38	1471
Cider or wine mill	W. E. Depp	365,976	July 5	310	82	40	59
Cider or wine press	J. H. Brubaker	363,798	May 31	2458	{ 638 } 639	{ 39 } 39	967
Cider. Preserving	J. C. Mott	365,148	June 21	1379	.....	39	1360
Cider-press	J. L. Barnes	357,448	Feb. 8	1010	268	38	618
Cider-press	R. Butterworth	368,276	Aug. 16	1375	362	40	728
Cider-press	H. P. Latham	364,264	June 7	87	25	39	1105
Cider-press	A. R. Wall	375,028	Dec. 20	1255	328	41	1305
Cider-press. Lever	J. E. Horstiek	372,914	Nov. 8	954	258	41	655
Cider-press. Roller	S. Eppley	371,131	Oct. 4	568	144	41	112
Cigar	H. Farias	368,463	Aug. 16	1635	437	40	779
Cigar and cigar-mold	H. T. Ofterdinger	369,956	Sept. 13	915	244	40	1215
Cigar ash-guard	S. S. Burr	356,615	Jan. 25	1893	497	38	384
Cigar-box	W. P. Bollenbacher	371,026	Oct. 4	426	107	41	85
Cigar-box	S. Cohn	372,119	Oct. 25	2003	513	41	415
Cigar-box	L. Haas	363,064	May 17	1418	375	39	752
Cigar-box	D. H. Jaccard	363,467	May 24	1975	515	39	868
Cigar-bunches. Machine for wrapping	J. E. Schmalz	364,773	June 14	814	214	39	1247
Cigar-bunching machine	H. J. Bachran	366,062	July 5	427	{ 116 } 117	{ 40 } 39	81
Cigar-bunching machine	C. Beckert	364,700	June 14	691	{ 184 } 185	{ 39 } 39	1226
Cigar-bunching machine	C. Beckert	364,701	June 14	694	{ 185 } 186	{ 39 } 39	1227
Cigar-bunching machine	M. M. Gardner	364,815	June 14	883	{ 232 } 233	{ 39 } 39	1260
Cigar-bunching machine	S. Henry	360,691	Apr. 5	416	107	39	78
Cigar-bunching machine	S. Henry	372,414	Nov. 1	195	54, 55	41	506
Cigar-bunching machine	E. A. Kitzmiller	367,916	Aug. 9	843	228	40	621
Cigar-bunching machine	E. A. Kitzmiller and G. H. Culley	367,917	Aug. 9	845	228	40	621
Cigar-bunching machine	F. C. Smalstig	359,473	Mar. 15	1511	387	38	1197
Cigar-bunching machine	W. M. Steinle and A. Senn	364,060	May 31	2831	{ 734 } 735	{ 39 } 39	1038
Cigar-bunching machine	J. Von Rönne	373,806	Nov. 22	2304	616	41	929
Cigar-bunching machine	J. R. Williams	369,419	Sept. 6	149	43, 44	40	1060
Cigar-bunching machine	M. A. Winget	369,145	Aug. 30	2592	688	40	982
Cigar-bundling machine	I. C. Caswell	368,932	Aug. 30	2304	612	40	925
Cigar-bundling machine	J. M. Fry	370,252	Sept. 20	1351	361	40	1304
Cigar-bundling machine	H. Kautz	364,257	June 7	76	22	39	1103
Cigar-bundling machine	G. Leist	365,926	July 5	243	64	40	48
Cigar-cutter	F. B. Brock	373,436	Nov. 22	1753	465	41	823
Cigar-cutter	T. B. Keim	372,418	Nov. 1	200	57	41	508
Cigar-cutter	W. H. Lilly	375,298	Dec. 20	1616	424	41	1377
Cigar-cutter	W. H. Myers	357,560	Feb. 8	1188	312	38	652
Cigar-fillers. Mold for measuring and partially shaping	F. A. Ford	362,267	May 3	277	77	39	527
Cigar-fillers. Mold for measuring and partially shaping	S. Henry	368,832	Aug. 23	2150	570	40	886
Cigar-heads. Device for forming	J., Jr., and S. S. Steiner	364,736	June 14	739	197	39	1236
Cigar-holder	F. A. Fouts	364,504	June 7	420	114	39	1167
Cigar-holder	F. A. Fouts	368,466	Aug. 16	1641	438	40	781
Cigar-holder	F. A. Fouts	368,467	Aug. 16	1642	438	40	781
Cigar-holder. Skeleton	M. P. Hough	363,391	May 24	1856	488	39	846
Cigar-lighter. Pocket	C. W. Weiss	356,513	Jan. 25	1743	454	38	355
Cigar-machine	J. Prangley	360,046	Mar. 29	2448	{ 623 } 624	{ 38 } 39	1391
Cigar-machines. Feed-regulating device for	J. Prangley	357,734	Feb. 15	1454	380	38	709
Cigar-mold	G. D. Elges	372,607	Nov. 1	473	127	41	559
Cigar-mold	F. C. Miller	364,183	May 31	3009	781	39	1071
Cigar-mold	G. J. Prentice	365,631	June 28	2095	546	39	1510
Cigar mold and lifter. Combined	W. F. Newhoff	375,713	Dec. 27	2198	572	41	1494
Cigar-mold press	H. K. Weaver	370,579	Sept. 27	1849	491	40	1403
Cigar-molding machine	G. D. Elges	375,615	Dec. 27	2059	535	41	1468
Cigar molding machine	G. D. Elges	375,616	Dec. 27	2060	535	41	1468
Cigar or cigarette case	T. Tribe	356,806	Feb. 1	88	25	38	440
Cigar or cigarette. Medicated	J. M. Allan	372,782	Nov. 8	750	203	41	619
Cigar-perforating machine	C. Neff	355,334	Jan. 4	58	16	38	13
Cigar-perforator	L. W. Fairchild	367,800	Aug. 9	683	185	40	588
Cigar-perforator	F. C. Gudebrod	365,303	June 21	1596	416	39	1401
Cigar-perforator	L. C. Miner, Jr.	361,071	Apr. 12	972	246	39	185

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cigar-press.....	A. Ullrich	369,373	Sept. 6	91	28	40	1051
Cigar-protector	S. W. Woodbury	372,442	Nov. 1	236	65	41	514
Cigar-rolling machine.....	O. Hammerstein	363,065	May 17	1419	375	39	752
Cigar-selling machine. Automatic	C. O. Cole	368,874	Aug. 23	2206	587	40	898
Cigar-shaper	E. W. Seymour	363,301	May 17	1737	455	39	814
Cigar-stand	N. Kohler	358,935	Mar. 8	773	193	38	1051
Cigar-tip clipper	T. R. Shea	356,168	Jan. 18	1257	332	38	256
Cigar-tip cutter	C. Knudsen	366,172	July 5	572	154	40	108
Cigar-tip cutter and match-safe. Combined	T. Dalton	368,706	Aug. 23	1975	525	40	853
Cigar-tip protector	P. Mish	359,358	Mar. 15	1340	346	38	1165
Cigar-tips. Device for drying and perforating	T. Karutz	360,302	Mar. 29	2848	725	38	1465
Cigar-wrapper-cutting machine	H. C. Myers	375,502	Dec. 27	1891	495	41	1438
Cigar wrappers and binders. Machine for cutting	W. H. Forbes	356,113	Jan. 18	1184	313	38	243
Cigar-wrappers. Machine for cutting	J. W. Cameron	355,918	Jan. 11	886	232	38	180
Cigar-wrappers. Machine for cutting	J. E. Schmalz	364,774	June 14	817	215	39	1248
Cigars, cigarettes, &c. Automatic vending apparatus for	N. W. Russ	367,551	Aug. 2	283	79, 80	40	505
Cigars, cigarettes, &c. Package for	W. H. Emery	356,244	Jan. 18	1355	358	38	275
Cigars, cigarettes, &c. Vending apparatus for	C. H. Bingham	368,869	Aug. 23	2201	586	40	897
Cigars. Device for packing	T. M. Wilson	361,604	Apr. 19	1729	446	39	338
Cigars. Forming long fillings for	O. Hammerstein	367,906	Aug. 9	832	223	40	618
Cigars. Machine for finishing and trimming	J. E. Schmalz	364,775	June 14	819	216	39	1248
Cigarette and match box	R. Savage	361,085	Apr. 12	993	251	39	189
Cigarette-box	F. S. Kinney and W. H. Butler	369,063	Aug. 30	2488	660	40	961
Cigarette-box	M. Mendizabal	369,408	Sept. 6	136	39	40	1058
Cigarette-boxes. Lighting device for	B. Lincoff, I. Seff, and H. Günther	364,595	June 7	551	148	39	1192
Cigarette-case	F. S. Kinney	357,997	Feb. 15	1819	478	38	778
Cigarette-case	F. S. Kinney	362,845	May 10	1101	298	39	685
Cigarette-machine	J. A. Bonsack	355,968	Jan. 11	969	253 254 426 427 428	38	196
Cigarette-machine	J. Floyd	373,351	Nov. 15	1616	427	41	786
Cigarettes. Apparatus for delivering packages of	F. S. Kinney and W. H. Butler	364,261	June 7	82	24	39	1104
Cigarettes. Method of and machine for applying saliva-proof mouth-pieces to	J. B. Underwood	364,873	June 14	968	254	39	1276
Cinder-escape and draft-regulator	F. S. Bragg	365,235	June 21	1491	392	39	1383
Circle and gasket cutter	A. O. Kittredge	362,218	May 3	222	65	39	516
Circles. Instrument for describing	T. A. and S. B. Wylie	371,160	Oct. 4	606	155	41	120
Circuit-breaker	C. B. Bosworth	374,652	Dec. 13	691	182	41	1190
Circuit-changer	C. W. McDaniel	368,221	Aug. 16	1295	343	40	712
Circuit-closer	C. B. Bosworth	374,036	Nov. 29	2627	705	41	1000
Circuit-closer. Thermotic	J. C. Mackey	366,176	July 5	577	155	40	109
Circuit-opener. Automatic	J. P. Tirrell	374,017	Nov. 29	2597	697	41	994
Circuits. Regulating device for alternate-current	E. Thomson	370,573	Sept. 27	1833	488	40	1400
Circular shears for cutting shells and tubes	B. Gruhl	374,151	Nov. 29	2793	750	41	1031
Circus	J. Oller	367,055	July 26	1776	479	40	360
Cistern	G. A. Allen	367,576	Aug. 2	322	92	40	513
Cistern-closet valves. Automatic attachment for	P. A. Riordan	357,033	Feb. 1	412	110	38	498
Cisterns. Apparatus for building	W. H. H. Davis	371,039	Oct. 4	442	111	41	88
Cisterns. Device for regulating the water-supply in	M. K. Jefferies	364,938	June 14	1062	277	39	1293
Clamp:							
See Broom-clamp. Mail-bag clamp.							
Can-cover clamp. Miter-clamp.							
Churn-lid clamp. Plumber's clamp							
Cloth-clamp. Rail-joint clamp.							
Clothes-suspending Rock-drill clamp.							
clamp. Rope-clamp.							
Clutch-clamp. Rubber-dam clamp.							
Cord-clamp. Saw-filing clamp.							
Cotton-press clamp. Screw-clamp.							
Floor-clamp. Stone-clamp.							
Flooring-clamp. String-clamp.							
Jar-clamp. Suspender-loop clamp.							
Lasting-machine Toilet-case clamp.							
clamp.							
Clamp	J. M. Basinger	359,833	Mar. 22	2090	528	38	1318
Clamp	L. Berger and J. Müller	368,273	Aug. 16	1366	360	40	726
Clamp	J. A. Fitzgerald	371,310	Oct. 11	815	208	41	167
Clamp	J. G. Gustafson	362,001	Apr. 26	2325	606	39	454
Clamp	F. F. Houston	357,387	Feb. 8	930	245	38	603
Clamp	F. F. Houston	370,541	Sept. 27	1784	476	40	1391
Clamp	M. F. Hunt	356,315	Jan. 18	1455	382	38	294
Clamp	F. J. Moser	368,104	Aug. 9	1109	294	40	669
Clamp	E. Shaw	359,942	Mar. 22	2265	570	38	1350
Clamp	E. Shaw	360,974	Apr. 12	833	213	39	160
Clamp	D. Frawley	359,251	Mar. 15	1191	310	38	1137
Clamp for molders' flasks	G. W. Weaver	361,339	Apr. 19	1363	350	39	269
Clamp or press	P. E. Wirt and J. K. Bittenbender	371,292	Oct. 11	790	202	41	163
Clamp or press	W. H. Denney	357,524	Feb. 8	1128	295	38	641
Clamp or vise	S. F. Duncan	373,770	Nov. 22	2250	603	41	919
Clamping device	J. Patten	361,777	Apr. 26	1986	518	39	393
Clamping device	E. M. Byrkit	360,997	Apr. 12	877	221	39	166
Clasp:							
See Album-clasp. Pencil-clasp.							
Automatic clasp. Pocket-clasp.							
Book-clasp. Pocket-book clasp.							
Box-clasp. Rope or line clasp.							
Garment-clasp. Shoe-clasp.							
Garment-support Spring-clasp.							
ing clasp. Suspender-clasp.							
Harness-clasp.							
Clasp	S. E. Cattell	375,475	Dec. 27	1859	486	41	1432
Clasp	L. Messer	372,164	Oct. 25	2064	528	41	427

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Clasp	W. E. Moore	359,459	Mar. 15	1488	381	38	1193
Clasp	L. B. Prabar	362,461	May 3	550	152	39	580
Clasp	F. W. Tobey	374,762	Dec. 13	845	222	41	1221
Clasp	E. E. and J. S. West	357,747	Feb. 15	1479	388	38	714
Clasp-bodies. Making	J. H. Doolittle	357,910	Feb. 15	1697	442	38	755
Clasp for binding or holding together newspapers, &c.	O. Dietrich	372,405	Nov. 1	180	51	41	504
Clasp for books, &c.	B. Conlan	355,974	Jan. 11	978	256	38	198
Clasp for elastic straps, &c.	C. Voorhis	358,634	Mar. 1	319	76	38	962
Clasp or buckle	J. R. Macmillan	369,067	Aug. 30	2493	662	40	961
Clasps to strips. Machine for forming and attaching	M. Gardner and A. Lovedahl	365,251	June 21	1526	398	39	1388
Clay. Apparatus for preparing	W. Mendham	370,553	Sept. 27	1804	480	40	1395
Clay-crusher	W. W. Wallace	369,086	Aug. 30	2523	669	40	967
Clay crusher and temperer	M. and J. Bierline	368,643	Aug. 23	1877	501	40	834
Clay-disintegrator	C. and A. Potts	368,898	Aug. 23	2242	596	40	905
Clay-press feeder	T. F. Anderson	367,174	July 26	1943	524	40	391
Clay-pulverizer	J. Creager	361,000	Apr. 12	879	222	39	167
Clay reducer and disintegrator	W. Burkman	357,973	Feb. 15	1784	468 } 469 }	38 }	771
Clay sharpening implement	G. E. Treadwell	361,559	Apr. 19	1655	428	39	325
Cleaner:							
See Boiler-cleaner.	Grain-cleaner.						
Boiler-flue cleaner.	Gun-cleaner.						
Boiler-tube cleaner.	Knife-cleaner.						
Boot-cleaner.	Moss-cleaner.						
Carpet-cleaner.	Peanut-cleaner.						
Chimney-cleaner.	Pen-cleaner.						
Cloth-cleaner.	Railway track, frog, and switch cleaner.						
Cotton-cleaner.	Sewer-cleaner.						
Feed-water cleaner.	Stove-pipe cleaner.						
Finger-nail cleaner.	Track-cleaner.						
Flue-cleaner.	Tube-cleaner.						
Gas-burner-tip cleaner.	Window-cleaner.						
Cleansing compound or soap	F. J. Harrison	355,523	Jan. 4	296		38	59
Cleat or rope-fastener	F. Kruegermann	359,538	Mar. 15	1616	414	38	1216
Cleaver. Butcher's	F. Kortick	369,406	Sept. 6	134	39	40	1058
Clevis	F. S. Dimon	355,980	Jan. 11	985	258	38	200
Clevis	F. Kirkpatrick	360,023	Mar. 29	2410	611	38	1383
Clevis	E. I. Morey	363,252	May 17	1671	438	39	802
Clevis	L. Stowe	367,074	July 26	1807	488	40	366
Clevis	G. W. Vinson	366,140	July 5	531	143	40	100
Clevis-fastening	W. H. H. Snellbaker	362,327	May 3	355	98	39	543
Clevis for vineyard and orchard plows. Adjustable	M. Palen	369,809	Sept. 13	678	183	40	1172
Clevis. Plow	M. L. Gibbs	362,073	May 3	30	9	39	478
Clip:							
See Axle-clip.	Hame-clip.						
Doubletree-clip.	Paper-clip.						
Electric-cable clip.	Vehicle gear-clip.						
Halter-clip.							
Clip for eveners	W. M. Myers and A. Smith	366,862	July 19	1530	410	40	305
Clip for rope traces	C. H. Allen	368,867	Aug. 23	2198	584	40	896
Clipper. Hair	F. M. Washburn	356,434	Jan. 18	1628	426	38	326
Clipping machine. Hair	L. S. Lee	357,718	Feb. 15	1426	375	38	705
Clock	W. D. Chase	373,441	Nov. 22	1760	467	41	825
Clock	E. Kuhn	372,074	Oct. 25	1937	499	41	403
Clock	J. Pallweber	359,227	Mar. 8	1154	300 } 301 }	38 }	1123
Clock	H. A. Russell	373,249	Nov. 15	1468	388	41	758
Clock	J. Zelly	372,780	Nov. 8	746	202	41	619
Clock. Advertising	B. J. Feldman and W. H. Reese, Jr	360,955	Apr. 12	804	206 } 207 }	39 }	155
Clock. Alarm	A. B. Hawley	360,346	Mar. 29	2904	740	38	1474
Clock. Alarm	A. Runge	359,983	Mar. 22	2333	586 } 587 }	38 }	1362
Clock-alarm	J. H. McGlynn and W. P. Howells	375,497	Dec. 27	1885	493	41	1437
Clock-alarm. Electric	M. M. Smith and F. P. Jones	356,605	Jan. 25	1869	491	38	380
Clock and alarm for hotels, &c. Combined	A. B. Harford	361,511	Apr. 19	1593	413	39	313
Clock and watch balances. Manufacture of	L. Murray	359,980	Mar. 22	2329	586	38	1361
Clock. Astronomical	H. Conant	371,306	Oct. 11	809	206 } 207 }	41 }	166
Clock. Burglar-alarm	C. E. Burnham	360,338	Mar. 29	2892	737	38	1472
Clock. Calendar	E. W. Morton	368,961	Aug. 30	2340	622	40	932
Clock. Calendar	H. S. Prentiss	360,725	Apr. 5	467	119 } 120 }	39 }	87
Clock. Calendar	J. A. Shimp	372,575	Nov. 1	433	115	41	552
Clock-case	A. Bannatyne	374,516	Dec. 6	492	128	41	1141
Clock-case	F. E. Morgan	358,055	Feb. 22	1905	503 } 504 }	38 }	799
Clock-case mold	C. Hellebush	369,337	Sept. 6	41	12	40	1042
Clock-cases. Die for forming metallic	M. Fowler	368,526	Aug. 16	1720	458 } 459 }	40 }	795
Clock-cover	W. C. Camp	362,932	May 17	1232	328	39	716
Clock-dial	A. Staubitz	372,642	Nov. 1	530	145	41	571
Clock. Electric	G. E. Mejer	364,429	June 7	310	85	39	1147
Clock. Electric alarm	E. J. Colby	370,932	Oct. 4	290	71	41	58
Clock. Electric alarm	S. P. Meads	371,696	Oct. 18	1365	353	41	285
Clock. Electric alarm	M. Stecher	365,493	June 28	1882	400	39	1468
Clock. Electric alarm	A. G. Woolley	369,672	Sept. 6	500	137 } 138 }	40 }	1130
Clock. Electric pendulum	A. L. Parcella	360,903	Apr. 12	722	191	39	141
Clock. Electric programme	A. J. Reams	367,663	Aug. 2	456	125 } 126 }	40 }	538
Clock for timing watches. Striking	J. F. Beyerle	370,038	Sept. 20	1053	279	40	1248

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Clock. Isochronal.....	H. Conant.....	368,814	Aug. 23	2126	{ 563 564	{ 40	881
Clock. Magnetic.....	D. Drawbaugh.....	367,898	Aug. 9	819	{ 220 221	{ 40	616
Clock mechanism. Auto-pneumatic.....	P. G. Puttemans.....	360,481	Apr. 5	117	29, 30	39	23
Clock movement. Secondary electric.....	C. D. Warner.....	363,440	May 24	1930	507	39	860
Clock. Night.....	C. C. Adams.....	362,140	May 3	120	36	39	496
Clock or watch dial.....	J. Singleton.....	358,754	Mar. 1	490	120	38	994
Clock. Pendulum.....	H. O. Deuss.....	373,727	Nov. 22	2189	585	41	908
Clock. Pneumatic.....	R. C. Wittmann.....	359,830	Mar. 22	2085	527	38	1317
Clock. Primary electric.....	J. J. Abell and C. B. Gifford.....	360,078	Mar. 29	2503	{ 636 637	{ 38	1400
Clock. Primary electric.....	V. Himmer.....	356,069	Jan. 11	1106	{ 292 293	{ 38	222
Clock. Primary electric pendulum.....	J. Zeiner.....	363,498	May 24	2025	528	39	879
Clock. Programme.....	A. J. Reams.....	367,662	Aug. 2	453	125	40	537
Clock. Programme alarm.....	E. Cushing.....	357,373	Feb. 8	902	238	38	598
Clock repeating mechanism.....	E. Y. Judd.....	360,888	Apr. 12	702	{ 185 186	{ 39	137
Clock. Secondary electric.....	W. B. Harvey.....	360,092	Mar. 29	2521	642	38	1404
Clock. Street.....	A. Staib.....	364,971	June 14	1107	288	39	1302
Clock striking mechanism.....	M. V. B. Ethridge and H. E. Waite.....	373,771	Nov. 22	2251	{ 603 604	{ 41	919
Clock striking mechanism.....	J. L. Sullivan.....	370,219	Sept. 20	1312	349	40	1296
Clock-synchronizing apparatus.....	C. J. Hexamer.....	373,138	Nov. 15	1292	343	41	727
Clock system. Electric.....	C. L. Clarke.....	367,960	Aug. 9	913	247	40	633
Clock system. Electric.....	T. J. Zoeller.....	357,885	Feb. 15	1665	{ 433 434	{ 38	749
Clock system. Hydropneumatic.....	C. A. Mayrhofer.....	359,799	Mar. 22	2037	{ 516 517	{ 38	1308
Clock system. Pneumatic.....	P. G. Puttemans.....	362,462	May 3	550	153	39	580
Clock. Twenty-four-hour.....	E. W. Morton.....	355,461	Jan. 4	216	58	38	44
Clock. Universal.....	S. S. Moyer.....	369,462	Sept. 6	208	59	40	1072
Clock-winding attachment. Electric.....	J. Broich and A. E. G. Luebke.....	355,434	Jan. 4	182	49	38	37
Clock-winding device.....	L. Lefèvre and H. Pallut.....	355,404	Jan. 4	149	39	38	30
Clock-winding mechanism.....	A. E. Hall.....	374,061	Nov. 29	2668	717	41	1008
Clock-winding mechanism.....	A. Robinson.....	361,837	Apr. 26	2075	540	39	410
Clock-winding mechanism.....	A. Robinson.....	366,429	July 12	912	{ 247 248	{ 40	181
Clock-winding mechanism.....	A. F. Valon.....	358,997	Mar. 8	858	218	38	1066
Clock. Window.....	H. Pennington.....	366,683	July 19	1289	344	40	261
Clock-works. Manufacture of shafts and pinions for.....	C. Stahlberg.....	355,024	Jan. 4	426	{ 117 118	{ 38	85
Clocks. Chiming apparatus for.....	J. Harrington.....	372,840	Nov. 8	860	230	41	638
Clocks. Circuit-breaker for primary electric.....	V. Himmer.....	355,820	Jan. 11	734	192	38	151
Clocks. Circuit-controller for self-winding.....	C. H. Pond.....	362,902	May 10	1190	319	39	701
Clocks. Controlling device for.....	W. S. Scales.....	368,689	Aug. 23	1949	517	40	849
Clocks. Electric striking device for.....	S. C. Dickinson.....	363,215	May 17	1623	426	39	792
Clocks. Electric synchronizing apparatus for.....	A. Ramel and W. W. Dean.....	365,023	June 14	1178	309	39	1314
Clocks. Electric synchronizing attachment for.....	E. F. Bard.....	369,386	Sept. 6	106	32	40	1053
Clocks. Wind-vane motor for.....	A. Hitt.....	366,834	July 19	1489	397	40	297
Clod-crusher.....	D. Lubin.....	357,842	Feb. 15	1609	417	38	739
Clod-crusher.....	D. Lubin.....	357,843	Feb. 15	1611	418	38	739
Clod-crusher.....	D. Lubin.....	357,844	Feb. 15	1612	{ 418 419	{ 38	740
Clod-crusher.....	D. Lubin.....	360,707	Apr. 5	445	114	39	83
Clod-crusher and harrow.....	J. H. Wyatt.....	374,569	Dec. 6	580	151	41	1159
Clod-crusher and harrow. Combined.....	I. Flohre and C. Perrin.....	362,071	May 3	27	8, 9	39	478
Clod crusher and pulverizer.....	D. Lubin.....	357,152	Feb. 1	608	{ 156 157	{ 38	532
Clod crusher and pulverizer.....	D. Lubin.....	362,454	May 3	541	{ 150 151	{ 39	579
Clod-crusher, harrow, and weed-cutter. Combined.....	J. S. Donoho and J. W. Gates.....	374,178	Dec. 6	23	6	41	1051
Clod crusher or roller for listed corn.....	B. F. Holaday.....	367,399	Aug. 2	62	16	40	462
Closet:							
See Bathing-closet. Sanitary closet.							
Dry closet. Water-closet.							
Earth-closet. Water or other closet.							
Hot closet.							
Closet for private purposes.....	E. R. Angell.....	367,495	Aug. 2	207	57, 58	40	491
Closet-seat.....	W. Jacobus.....	362,969	May 17	1289	342	39	726
Cloth-board and tag therefor.....	J. W. Jones.....	357,604	Feb. 15	1258	330	38	675
Cloth-clamp for gigging-machines, &c.....	A. S. Dinsmore.....	356,455	Jan. 25	1660	435	38	340
Cloth, &c. Clamp for stretching or tenting.....	F. H. Lane.....	361,014	Apr. 12	897	226	39	170
Cloth-cleaner.....	W. C. Meyer.....	374,689	Dec. 13	739	194	41	1200
Cloth-cutting machine.....	E. Dredge.....	368,758	Aug. 23	2051	543	40	867
Cloth-cutting machine.....	P. Howe.....	359,570	Mar. 15	1676	428	38	1227
Cloth-cutting machine.....	F. W. Nevens.....	372,926	Nov. 8	968	263	41	658
Cloth-cutting machine.....	T. W. Marshall.....	369,466	Sept. 6	214	60	40	1073
Cloth-cutting machine.....	A. Warth.....	363,705	May 24	2329	604	39	936
Cloth-finishing machine.....	E. Rau.....	373,193	Nov. 15	1383	{ 366 367	{ 41	743
Cloth-folding machine.....	S. K. White and S. T. Lockwood.....	370,835	Oct. 4	113	31	41	24
Cloth-gig.....	J. Hanson.....	358,153	Feb. 22	2050	539	38	825
Cloth-gigging machine.....	J. Woelfel.....	358,136	Feb. 22	2030	{ 533 534	{ 38	821
Cloth-sponging machine.....	W. Geiger.....	371,191	Oct. 11	651	167	41	136
Cloth-sponging machine.....	C. Keck and W. Geiger.....	364,593	June 7	550	148	39	1191
Cloth-stretching machine. Clip for.....	P. Scheider.....	366,431	July 12	917	249	40	182
Clothes-bar.....	A. L. Mihills.....	373,843	Nov. 29	2356	633	41	947
Clothes-bar. Bracket.....	E. C. Hiscock.....	360,386	Mar. 29	2971	753	38	1485
Clothes-bar. Folding.....	D. M. Pickett.....	363,081	May 17	1439	381	39	756
Clothes-drier.....	H. F. Bolton.....	373,004	Nov. 8	1091	291	41	680
Clothes-drier.....	G. J. Capewell.....	360,275	Mar. 29	2813	715	38	1458

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Clothes-drier	E. Goss	372,217	Oct. 25	2148	551	41	443
Clothes-drier	J. Hadley	368,335	Aug. 16	1447	384	40	743
Clothes-drier	C. D. Hawkins	357,926	Feb. 15	1714	447	38	758
Clothes-drier	N. J. M. Heck	366,096	July 5	469	127	40	88
Clothes-drier	L. Hopkins	369,245	Aug. 30	2715	721	40	1006
Clothes-drier	O. B. Hubbard	360,526	Apr. 5	195	48	39	38
Clothes-drier	W. D. Martin	366,013	July 5	367	99	40	69
Clothes-drier	H. C. Shelton	357,045	Feb. 1	424	113	38	500
Clothes-drier	D. C. Westfall	368,036	Aug. 9	1014	273	40	652
Clothes-drier and lawn-tent. Combined	F. E. Averill and F. W. Sharp	369,493	Sept. 6	243	69	40	1080
Clothes-drying frame	R. Orr	359,275	Mar. 15	1221	318	38	1143
Clothes-horse	H. B. Lambert	370,951	Oct. 4	315	77	41	62
Clothes-line	J. Cavanagh	359,427	Mar. 15	1449	371	38	1185
Clothes-line	H. E. Percival	370,348	Sept. 20	1485	398	40	1330
Clothes-line fastener	F. Meckel	355,332	Jan. 4	56	15	38	12
Clothes-line hook	L. Coyne	363,601	May 24	2174	563	39	907
Clothes-line prop	J. S. Jameson	372,915	Nov. 8	955	258	41	656
Clothes-line reel, pin-holder, &c. Combined	J. Mosher	356,779	Feb. 1	47	13, 14	38	432
Clothes-line stay	C. E. McDonald	359,025	Mar. 8	893	227	38	1074
Clothes-line support	R. R. Carter	371,423	Oct. 11	977	255	41	198
Clothes-line support	R. L. Palmer and R. R. Carter	365,196	June 21	1441	380	39	1373
Clothes-line support	T. E. D. Power	358,819	Mar. 1	585	145	38	1012
Clothes-lines. Device for adjusting	A. W. R. Liebau	370,199	Sept. 20	1287	342	40	1292
Clothes-pin	S. E. Moore	365,755	June 28	2288	594	39	1544
Clothes-pin	J. S. Nelson	360,460	Apr. 5	93	23	39	18
Clothes-pin bag	W. Jamieson	368,091	Aug. 9	1094	290	40	667
Clothes-pin. Spring	R. E. Hoyt	356,127	Jan. 18	1202	319	38	246
Clothes-pounder	E. A. Beans	363,358	May 24	1815	476	39	838
Clothes-pounder	H. E. Olmstead	361,888	Apr. 26	2157	559	39	425
Clothes-rack	T. H. Eulass	365,060	June 21	1251	329	39	1338
Clothes-rack	G. W. Langford	375,639	Dec. 27	2094	545	41	1476
Clothes-rack	J. S. Marsh	359,022	Mar. 8	890	226	38	1073
Clothes-rack	C. G. Udell	358,091	Feb. 22	1956	517	38	808
Clothes-rack attachment	F. W. Weis	372,883	Nov. 8	911	246	41	647
Clothes-reel. Portable	F. and A. F. Sooter	374,376	Dec. 6	294	78	41	1102
Clothes-sprinkler	W. Bartholomew	356,440	Jan. 25	1640	430	38	336
Clothes-suspending clamp and tag-holder. Combined	C. N. Carson and W. Witherell	357,464	Feb. 8	1038	275	38	624
Clothes-tongs	D. A. Phelps	361,023	Apr. 12	911	230	39	173
Clothes-washer	J. T. Campbell	358,646	Mar. 1	336	81	38	966
Clothes-washer	J. J. Turner	364,613	June 7	569	153	39	1195
Clothes-washer	E. C. Willis	357,441	Feb. 8	998	264	38	616
Clothes-wringer	J. J. Collins	362,359	May 3	400	111	39	552
Clothes-wringer	W. Hermann	365,006	June 14	1159	{ 303 } { 304 }	39	1311
Clothes-wringer	H. C. Hopkins, Jr	356,641	Jan. 25	1929	505	38	390
Clutch	E. L. Babcock	373,425	Nov. 22	1741	461	41	821
Clutch	E. Bowers	370,852	Oct. 4	149	40	41	30
Clutch	F. F. Dearing	370,860	Oct. 4	163	44	41	32
Clutch	P. G. Gardner	361,156	Apr. 12	1111	281	39	211
Clutch	F. J. Heinrichsen	363,635	May 24	2226	577	39	917
Clutch	T. Rogers	360,393	Mar. 29	2978	755	38	1486
Clutch	G. W. Shamp	363,006	May 17	1340	354	39	736
Clutch	H. A. Smith	375,210	Dec. 20	1510	396	41	1356
Clutch	C. Wehner	360,262	Mar. 29	2794	711	38	1454
Clutch	J. A. White and J. W. Moore	363,707	May 24	2332	605	39	937
Clutch and brake	E. H. Brown	367,090	July 26	1834	494	40	371
Clutch and brake mechanism	W. M. Kasey	365,439	June 28	1808	470	39	1453
Clutch. Automatic gripping	J. L. Mitchell	375,180	Dec. 20	1469	384	41	1347
Clutch-clamp	J. W. McCoy	368,408	Aug. 16	1545	412	40	763
Clutch for intestine machines	A. L. Teetor	366,799	July 19	1443	386	40	289
Clutch for power-presses	F. M. Leavitt	370,198	Sept. 20	1284	342	40	1291
Clutch. Friction	J. L. Bogert	370,118	Sept. 20	1170	310	40	1268
Clutch. Friction	G. Crompton and H. Wyman	363,507	May 24	2038	530	39	881
Clutch. Friction	H. W. Hill	374,834	Dec. 13	949	248	41	1241
Clutch. Friction	I. G. Hooper	362,837	May 10	1088	{ 294 } { 295 }	39	683
Clutch. Friction	G. L. Hopping	370,332	Sept. 20	1461	392	40	1325
Clutch. Friction	M. G. Hubbard	362,084	May 3	47	14	39	481
Clutch. Friction	D. R. Kinyon	357,608	Feb. 15	1263	332	38	676
Clutch. Friction	J. Kirk	362,636	May 10	814	223	39	632
Clutch. Friction	J. Macdonald	371,606	Oct. 18	1230	320	41	258
Clutch. Friction	P. Medart	364,945	June 14	1071	279	39	1295
Clutch. Friction	J. C. Potts	357,095	Feb. 1	499	{ 132 } { 133 }	38	514
Clutch. Friction	A. C. Rogers	370,821	Oct. 4	93	25, 26	41	20
Clutch. Friction	G. A. Slayton	367,856	Aug. 9	758	204	40	604
Clutch. Friction	D. B. West	363,493	May 24	2017	526	39	878
Clutch mechanism	J. Reece	363,421	May 24	1903	500	39	855
Clutch mechanism	J. Reece	367,063	July 26	1786	482	40	362
Clutch. Pneumatic	J. P. Noyes	369,807	Sept. 13	675	183	40	1171
Clutches. Safety-lever for	J. Gould, Jr	373,455	Nov. 22	1780	473	41	829
Coach. Dining	J. H. Elliott	360,424	Apr. 5	29	9	39	8
Coach-pad	F. C. Kimball	360,351	Mar. 29	2913	742	38	1476
Coal and introducing the same into coke-ovens. Apparatus for compressing	J. Quaglio	365,489	June 28	1876	{ 488 } { 489 }	39	1466
Coal and ore jigger	G. Lauder	364,265	June 7	88	25	39	1106
Coal and other fuel. Compound for treating	W. H. Hawkes	358,200	Feb. 22	2121		38	839
Coal, &c. Apparatus for splitting	R. R. Von Walcher-Uysdal	370,749	Sept. 27	2098	{ 556 } { 557 }	40	1450
Coal-conveyer	W. Lawton	364,024	May 31	2786	722	39	1029
Coal-drilling machine	A. and S. J. Covey	375,262	Dec. 20	1572	412	41	1368
Coal-drilling machine	G. R. Cullingworth	365,732	June 28	2254	587	39	1538
Coal-drilling machine	J. Linck	361,167	Apr. 12	1127	285	39	214

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Coal-dump	T. B. Jackson and M. P. Lytton	371,890	Oct. 18	1655	{ 427 428	{ 41	343
Coal-elevator	T. G. Goodfellow	374,895	Dec. 13	1041	272	41	1259
Coal elevator, screen, and loader. Combined	L. G. Scofield	356,165	Jan. 18	1251	331	38	254
Coal-hod	E. Barrath	371,023	Oct. 4	424	106	41	84
Coal-hod	J. Ringen	369,962	Sept. 13	923	245	40	1217
Coal-kindler	T. D. Obersky and S. Fischer	365,271	June 21	1552	404	39	1393
Coal or rock drill	J. Henwood	358,036	Feb. 22	1870	{ 494 495	{ 39	793
Coal or rock drill	J. L. Williams	357,748	Feb. 15	1481	388	{ 38	714
Coal or rock drill support	H. B. Dierdorff	360,667	Apr. 5	390	99	38	73
Coal-receiver. Self-feeder dust-preventing	D. S. Kelton	362,283	May 3	298	82	39	531
Coal-screen heater	F. L. Shallenberger	362,793	May 10	1040	283	39	673
Coal-screen. Revolving	P. Richards	361,185	Apr. 12	1150	290	39	218
Coal-scuttle	W. Freudenberg	362,616	May 10	776	214	39	624
Coaster. Combined sliding or roller	E. H. Fenton	372,306	Nov. 1	30	10	41	477
Coasters. Turn-table for	J. A. Priaulx	360,479	Apr. 5	115	29	39	23
Coat-adjuster	D. H. Purves	370,209	Sept. 20	1298	346	40	1294
Coat and hat hook	F. Taylor	374,014	Nov. 29	2594	696	41	994
Coat and hat hook	F. Taylor	374,015	Nov. 29	2595	697	41	994
Coat and hat hook. Wire	F. Taylor	365,882	July 5	176	45	40	35
Coat and making the same	B. G. Corser	364,219	June 7	27	8	39	1093
Coat and vest. Combined	H. L. Basch	375,595	Dec. 27	2027	526	41	1463
Coat-hanger	W. B. Bisbee	374,035	Nov. 29	2627	705	41	1000
Coat-hanger	F. Taylor	365,881	July 5	175	45	40	35
Coat-holder. Adjustable	H. Christian	364,803	June 14	866	227	39	1257
Coat or hat hook	H. W. Buckland	365,725	June 28	2237	582	39	1535
Coat-rack	C. G. Udell	372,502	Nov. 1	320	87	41	531
Coat-sleeve	J. C. Bolen	359,052	Mar. 8	928	236	38	1080
Coat-sleeves. Fastening for securing fur cuffs to	F. Voreck	366,705	July 19	1317	353	40	267
Coating surfaces. Apparatus for	A. Edwards	358,849	Mar. 8	644	159	38	1028
Coating the interior of vessels with water-proof lining. Machine for	G. W. Crowell	360,952	Apr. 12	798	206	39	154
Cock. Alarm gas-	W. M. Sanner	355,558	Jan. 4	346	92	38	69
Cock and valve. Combined	C. W. Hale	372,314	Nov. 1	45	14	41	480
Cock. Ball-	J. Clifford	359,059	Mar. 8	936	238	38	1082
Cock box for water or gas pipes. Stop-	C. F. Bingham	368,372	Aug. 16	1494	399	40	753
Cock box. Stop-	C. F. Bingham	365,232	June 21	1486	391	39	1382
Cock. Cylinder-	H. R. Whomes	362,804	May 10	1051	286	39	676
Cock for boilers. Gage-	W. C. Baker	368,441	Aug. 16	1597	426	40	772
Cock for electro-pneumatic brake systems. Stop-	J. F. Carpenter	368,650	Aug. 23	1885	503	40	836
Cock for flexible tubes. Stop-	R. Parker	355,467	Jan. 4	223	60	38	45
Cock. Gage-	S. P. Lathrop	374,978	Dec. 20	1188	309	41	1294
Cock. Gage-	D. H. Roberts	368,899	Aug. 23	2244	597	40	905
Cock-gage	J. F. Shaw and J. O. Toole	362,546	May 10	671	188	39	607
Cock. Gas or other	J. V. Horn	363,639	May 24	2231	578	39	918
Cock-grinding machine	R. A. Regester	370,160	Sept. 20	1226	{ 326 327	{ 40	1281
Cock. Injector feed-	G. W. Wiswell	373,710	Nov. 22	2167	580	41	904
Cock. Lock-	W. H. Deming	359,714	Mar. 22	1903	483	38	1285
Cock or tap. Metal	S. W. Smith	362,326	May 3	355	98	39	542
Cock. Plug-	J. Powell	369,613	Sept. 6	419	117	40	1115
Cock. Self-closing stop-	F. Marey and E. Colle	362,025	Apr. 26	2357	615	39	460
Cock. Stop-	A. Convert	368,073	Aug. 9	1070	286	40	662
Cock. Valve-	J. Hurt	374,188	Dec. 6	34	9	41	1053
Cockeye	J. G. Eckart	361,683	Apr. 26	1858	481	39	372
Cockle and grain separator	G. F. Prescott	355,713	Jan. 11	576	151	38	123
Cockle-separator	J. A. Lacey	359,162	Mar. 8	1063	277	38	1107
Coffee and tea pot attachment	G. S. Spring	362,550	May 10	676	189	39	607
Coffee. Machine for infusing	E. Perdelwitz	368,232	Aug. 16	1309	345	40	714
Coffee. Manufacture of liquid extracts of	M. Samelson	358,300	Feb. 22	2252	.....	38	864
Coffee or tea pot	W. McTyre	364,597	June 7	553	149	39	1192
Coffee or tea pot and urn	L. J. Richards	374,270	Dec. 6	136	36	41	1073
Coffee-pot	J. Boudinot	367,780	Aug. 9	653	176	40	582
Coffee-pot	H. B. Cornish and J. B. Moore	361,489	Apr. 19	1565	406	39	308
Coffee-pot	J. K. Cummings	362,878	May 10	1147	308	39	693
Coffee-pot	J. Edwards and L. Elliott	364,911	June 14	1021	267	39	1286
Coffee-pot	W. A. Krag	374,603	Dec. 13	628	164	41	1177
Coffee-pot	W. W. Newcomb	362,105	May 3	80	24	39	488
Coffee-pot	J. S. Stringer	370,827	Oct. 4	101	27	41	21
Coffee-pot	J. F. Wood	363,931	May 31	2648	687	39	1001
Coffee-roaster	J. W. Burt and G. W. Trusty	374,933	Dec. 20	1107	289	41	1280
Coffee-roaster	F. Maassen	373,531	Nov. 22	1917	508	41	854
Coffee-roaster	C. H. Madsen	375,641	Dec. 27	2096	546	41	1476
Coffee-roaster	T. G. Palmer and W. H. Butler	360,971	Apr. 12	827	212	39	159
Coffee-roaster	J. C. Salzgeber	365,321	June 21	1623	423	39	1406
Coffee roaster, mixer, and scourer	G. W. Hungerford	366,106	July 5	480	130	40	90
Coffee-roaster. Spherical	L. R. Witherell	361,660	Apr. 19	1816	471	39	355
Coffee-separator	F. W. Holbrook	361,415	Apr. 19	1469	379	39	289
Coffer-dams for foundations of all kinds. Apparatus for making	F. H. Poetsch	367,547	Aug. 2	279	78	40	504
Coffin	W. Hamilton	364,645	June 14	616	166	39	1212
Coffin	J. Maxwell	357,490	Feb. 8	1071	282	38	630
Coffin	T. H. Mooney	370,276	Sept. 20	1383	371	40	1310
Coffin	A. R. Reese	367,728	Aug. 2	574	156	40	559
Coffin-bracket. Adjustable	C. E. McLaughlin	365,268	June 21	1548	404	39	1392
Coffin-cap lifter	C. A. Bailey	363,312	May 17	1749	458	39	817
Coffin-fastener	J. Maxwell	369,198	Aug. 30	2660	707	40	995
Coffin-fastening device	W. Hamilton	370,331	Sept. 20	1459	392	40	1325
Coffin-handle	W. Hamilton	360,013	Mar. 29	2395	606	38	1380
Coffin-handle	H. W. Morgan. (Reissue)	10,856	Aug. 9	1212	324	40	689
Coffin-lid fastener	J. Maxwell	369,197	Aug. 30	2658	707	40	995
Coffin-lowering attachment	B. W. Newlove	360,239	Mar. 29	2759	700	38	1447
Coffin-platform	S. Baker	356,237	Jan. 18	1347	356	38	273

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Coffin-protector	G. P. Pilert and W. T. Brown	370,408	Sept. 27	1581	422	40	1355
Coffins. Device for lowering	J. T. Meredith	363,530	May 24	2073	537	39	888
Coffins, &c. Handle for	A. D. Allen	356,184	Jan. 18	1273	336	38	258
Coffins. Head-rest for	C. Krauser	368,721	Aug. 23	2005	530	40	857
Coiled-tube boiler	M. R. Clapp	358,430	Mar. 1	9	3	38	905
Coiling attachment for rolls or slitters	A. P. Hine	357,082	Feb. 1	480	128	38	511
Coin-bags. Sealing	C. A. Judd	374,255	Dec. 6	120	31	41	1070
Coin-box	J. G. Vivion	369,140	Aug. 30	2586	687	40	981
Coin-bucket	E. R. Whitney	371,868	Oct. 18	1619	418	41	337
Coin-counter	L. H. Leber and M. C. Currens	356,771	Feb. 1	40	11	38	431
Coin-counter	P. E. Sarsfield	357,635	Feb. 15	1308	343	38	683
Coin-counter with automatic locking device	J. L. Townsley	359,523	Mar. 15	1598	409	38	1213
Coin-holder	W. A. Porterfield	367,661	Aug. 2	452	125	40	537
Coin-operated lock	P. Everitt	374,785	Dec. 13	880	230	41	1228
Coin or ticket receiving turn stile	W. Peake	364,852	June 14	937	247 248	39	1270
Coin-package	G. L. Castner	368,810	Aug. 23	2122	562	40	880
Coin-packet	W. K. Bellis	359,955	Mar. 22	2286	574	38	1353
Coin-tray	C. E. Howe	363,239	May 17	1651	434	39	798
Coins therefrom. Combined box or chute and means for intermittently discharging	E. W. Furrell	362,886	May 10	1163	311	39	696
Coke from ovens. Machine for pulling	F. C. Weir	362,130	May 3	106	33	39	494
Coke in ovens. Device for watering	T. S. and J. E. Stewart	373,417	Nov. 15	1726	456	41	806
Coke-oven door	J. J. Davis	374,942	Dec. 20	1131	296	41	1284
Cold. Apparatus for producing	R. P. Pictet	372,327	Nov. 1	62	19	41	483
Collar and hame. Horse	J. and J. G. Wainwright	374,328	Dec. 6	226	60	41	1088
Collar and neck-strap coupling. Breast	S. F. Smith	362,549	May 10	675	189	39	607
Collar and necktie. Combined	J. S. and J. S. Dove, Jr.	357,071	Feb. 1	465	124	38	508
Collar and necktie fastener	A. Lucasse	360,166	Mar. 29	2655	670	38	1427
Collar. Apparel	E. and O. Struensee	367,460	Aug. 2	140	40	40	478
Collar fastener. Horse	M. T. Hayes	361,357	Apr. 19	1396	359	39	275
Collar fastener. Horse	B. M. Johnson	357,831	Feb. 15	1594	413	38	736
Collar fastening. Horse	J. T. Rowlands	364,375	June 7	229	65	39	1132
Collar. Horse	C. Blok	358,252	Feb. 22	2184	575	38	851
Collar. Horse	C. Blok	362,353	May 3	388	107	39	550
Collar. Horse	J. Boleska	367,950	Aug. 9	895	242	40	629
Collar. Horse	R. Brownson	371,486	Oct. 11	1053	274	41	214
Collar. Horse	J. N. Crabb	365,463	June 28	1841	478	39	1460
Collar. Horse	S. B. Davis	359,139	Mar. 8	1035	269	38	1102
Collar. Horse	A. Delande	356,989	Feb. 1	344	91	38	486
Collar. Horse	F. Hays	358,855	Mar. 8	659	165	38	1030
Collar. Horse	B. H. Helming	370,392	Sept. 27	1557	417	40	1351
Collar. Horse	W. Hull	356,128	Jan. 18	1203	319	38	246
Collar. Horse	A. Lohr	361,881	Apr. 26	2149	557	39	423
Collar. Horse	W. Thurber and A. Norling	372,439	Nov. 1	228	64	41	513
Collar. Horse	W. W. Youmans	361,342	Apr. 19	1368	352	39	270
Collar or cuff holder	T. Gentzsch	361,058	Apr. 12	956	242	39	182
Collar-pad attachment. Horse	E. E. Withey	375,111	Dec. 20	1377	358	41	1328
Collar-pad fastener	A. Ortmyer	355,411	Jan. 4	159	41	38	32
Collar pad. Horse	J. G. Egbertson	358,851	Mar. 8	646	159	38	1028
Collar pad. Horse	J. Morrow	369,650	Sept. 6	469	131	40	1124
Collar pad. Horse	J. S. Pope	366,027	July 5	386	104	40	72
Collar pad. Horse	W. A. Shaffer	373,787	Nov. 22	2272	609	41	923
Collar-supporting pad for draft-animals	J. Morrow	363,962	May 31	2705	701	39	1012
Collars and cuffs. Making	H. C. Curtis	356,624	Jan. 25	1909	501	38	387
Collars and other articles. Manufacturing horse	A. B. Coleman	374,452	Dec. 6	404	105	41	1123
Collars. Combined hook and clasp for horse	L. T. Anderson	364,464	June 7	368	101	39	1158
Collars. Instrument for the measurement of horses' necks for fitting	R. J. P. Spence and R. Storrar	365,873	July 5	162	42	40	33
Collars. Making apparel	J. H. Young	371,723	Oct. 18	1407	364	41	295
Collars. Sweat-pad fastening for horse	F. Benoit	369,496	Sept. 6	246	69	40	1081
Collets. Machine for drilling and splitting	C. V. Woerd	357,514	Feb. 8	1102	290 291	38	636
Colorimeter	J. W. Lovibond	363,835	May 31	2512	652	39	977
Coloring-matter for dyeing by the action of tetrazo dyes with beta naphthylamine sulpho acid. Red	C. Duisberg	357,274	Feb. 8	778	.....	38	574
Coloring-matter formed by the action of paranitroso-diphenylamines on phenols or oxycarbonic acids. Blue	E. Ullrich	366,356	July 12	830	.....	40	164
Coloring-matter formed from paranitroso-methyldiphenylamine on phenols or oxycarbonic acids. Blue	E. Ullrich	366,357	July 12	830	.....	40	164
Coloring-matter from alpha diazo beta-naphthylamine sulphonic acid. Red	H. Vollbrecht and C. Mensching	356,672	Jan. 25	1966	.....	38	398
Coloring-matter from tetrazodiphenyl. Blue	C. Duisberg	357,273	Feb. 8	777	.....	38	574
Coloring-matter. Manufacture of blue	J. Annaheim	369,764	Sept. 13	617	.....	40	1160
Coloring-matter. Manufacture of red	A. Römer	359,576	Mar. 15	1685	.....	38	1228
Coloring-matter. Production of blue	E. Greppin	368,716	Aug. 23	1999	.....	40	856
Coloring-matter. Production of mixed azo	C. A. Martius	358,865	Mar. 8	672	.....	38	1032
Coloring-matter. Production of new	J. Rohner	365,409	June 28	1761	.....	39	1445
Coloring-matter. Trimethylethylthionin-blue	E. Ullrich	362,592	May 10	742	.....	39	618
Colors by means of diamidostilbene and diamido-fluorene. Obtaining diazo	F. Bender and G. Schultz	360,792	Apr. 5	554	.....	39	104
Colter	J. A. Kennedy	368,592	Aug. 23	1811	482	40	822
Colter	G. W., W. T., and J. W. Minor	356,490	Jan. 25	1713	447	38	350
Colter and jointer. Roller	D. A. Moon	357,848	Feb. 15	1617	420	38	740
Colter-coupler plate	T. Meikle	360,034	Mar. 29	2426	616	38	1387
Colter. Plow	N. R. Doan	356,306	Jan. 18	1445	379	38	291
Colters. Making plow	J. G. Bailey	358,828	Mar. 8	605	149	38	1021
Colters to plows. Device for attaching	N. Burch	367,697	Aug. 2	513	141	40	547
Column for buildings	A. Blaser	360,134	Mar. 29	2603	660	38	1418
Column-rest	J. S. Broughton	362,716	May 10	923	251	39	653
Columns. Constructing ornamental masonry	B. Dubois	367,508	Aug. 2	227	66	40	495

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Comb:							
See Curry-comb.	Music-box comb.						
Gage-comb.	Weaver's comb.						
Comb-graille	J. A. Dorley	356,223	Jan. 18	1327	250	38	269
Combs. Manufacture of	H. G. Guild	370,473	Sept. 27	1687	448	40	1374
Combing fibrous substances. Machinery for	P. Heilmann-Ducommun	373,365	Nov. 15	1649	437 438	41	792
Combing-machine	P. Heilmann-Ducommun	364,172	May 31	2993	777 778	39	1069
Combing machine. Circular	J. W. Bradley	357,171	Feb. 8	639	166	38	548
Combing machine. Wool-	I. Best	355,296	Jan. 4	6	2, 3	38	4
Combing machine. Wool-	W. Wardman	355,489	Jan. 4	255	67	38	52
Combing-machines. Appliance for preventing unequal wear of leathers of drawing-off rollers of	W. H. Greenwood and F. Farrar	373,890	Nov. 29	2422	651	41	960
Combing-machines. Fiber-guide for	I. Best	363,794	May 31	2451	636	39	966
Combination-lock	G. R. Boyce	363,110	May 17	1484	392	39	764
Combination-lock	J. W. Estes	369,331	Sept. 6	28	8	40	1040
Combination-lock	B. Fry	365,177	June 21	1417	373	39	1368
Combination-lock	J. W. Hard	370,254	Sept. 20	1353	362	40	1304
Combination-lock	R. Hildwein	365,382	June 28	1727	447	39	1438
Combination-lock	C. Launer	370,878	Oct. 4	187	49	41	37
Combination-lock	J. G. O'Neill	365,317	June 21	1617	421 422	39	1405
Combination-lock	T. B. Zeller	366,806	July 19	1449	388	40	290
Combination-lock	T. B. Zeller	368,640	Aug. 23	1873	499	40	833
Combination-lock	T. B. Zeller	371,656	Oct. 18	1296	336	41	271
Combination-press	L. H. Taylor	366,526	July 12	1052	286	40	209
Combination-wrench	H. W. De Courtenay	370,048	Sept. 20	1065	282	40	1250
Comfortables from continuous fabrics. Making	F. L. Palmer	363,670	May 24	2271	589	39	926
Comfortables from continuous fabrics. Making	F. L. Palmer. (Reissue)	10,861	Aug. 23	2289	608	40	914
Commode	L. B. Robb	372,237	Oct. 25	2177	559	41	449
Commode. Baby traveling-	W. Morris	371,699	Oct. 18	1373	354	41	287
Commode. Chair-	E. S. Farson	357,914	Feb. 15	1701	443	38	756
Commode-chair	F. U. Martin	356,654	Jan. 25	1944	509	38	393
Commutator-adjuster. Automatic	E. Thomson	363,184	May 17	1583	417	39	786
Commutator or electric circuit-breaker	C. D. Baker	375,328	Dec. 27	1665	437	41	1395
Compass and marine indicator. Recording-	R. W. F. Abbe	363,039	May 17	1385	366 367	39	745
Compass. Beam-	J. Strachan	374,639	Dec. 13	678	179	41	1188
Compass. Instrument for ascertaining the variation of the	H. Harild	362,960	May 17	1278	339	39	724
Composing-stick	P. S. Kellogg	375,360	Dec. 27	1705	448	41	1402
Composition pipe	T. McSweeney	372,631	Nov. 1	513	141	41	568
Composition to be used as a non-conductor of heat and for other purposes.	N. J. Clayton	369,099	Aug. 30	2542		40	970
Compositor's frame	F. M. Neff	362,394	May 3	448	124	39	562
Compositors' stands. Seat for	R. P. Boss	371,168	Oct. 11	621	159	41	130
Compost-distributor. Revolving	C. H. Brooks	368,186	Aug. 16	1228	329	40	700
Compound board	A. F. Temple	369,216	Aug. 30	2679	712	40	999
Compound engine	H. F. Gaskill	366,392	July 12	875	235	40	173
Compound engine	A. D. Linn	375,077	Dec. 20	1324	345 346	41	1318
Compound fabric	T. S. Very	364,786	June 14	843	221	39	1252
Compressor cross-head	A. Snyder	373,381	Nov. 15	1672	444	41	797
Compressor. Fluid-	W. H. Tappey	360,542	Apr. 5	218	55	39	42
Concentrating-machine	F. E. Monteverde	373,026	Nov. 8	1130	302	41	686
Concentrator	F. Batter	368,316	Aug. 16	1423	376	40	738
Concentrator	W. L. Card	372,741	Nov. 8	674	184 185	41	607
Concentrator	C. W. Joy	359,020	Mar. 8	888	226	38	1072
Concentrator	J. W. Parmelee	373,600	Nov. 22	2011	533 534	41	871
Concentrator for artificial lights	H. H. Smith	363,010	May 17	1344	355	39	737
Concentrator. Hydraulic	F. W. Robinson	371,711	Oct. 18	1391	358	41	291
Concrete. Apparatus for the preparation of	E. Coignet	369,920	Sept. 13	857	226 227	40	1205
Concrete-mixer	J. Lundie	366,591	July 12	1152	309	40	229
Concrete under water. Laying	J. C. Goodridge, Jr	358,853	Mar. 8	649	160	38	1029
Concrete walks. Laying	W. C. Hall	355,990	Jan. 11	995		38	202
Condenser	W. Craig	365,119	June 21	1339	355	39	1352
Condenser. Smoke-	B. Roberts	360,052	Mar. 29	2459	626	38	1392
Condenser. Steam-	V. D. Anderson	355,291	Jan. 4	1	1	38	3
Condenser. Steam-	J. McIntyre	357,401	Feb. 8	946	249	38	606
Condensing duplex heater	A. L. Draper	367,706	Aug. 2	524	144	40	550
Condition powder	J. W. Griffes	364,408	June 7	282		39	1142
Conductor-pipe. Expansible	H. Pfeiffer	356,888	Feb. 1	208	58	38	459
Conductor-support	W. P. Zimmerman	366,289	July 12	736	200	40	147
Conductor-tip	S. S. Wheeler	368,987	Aug. 30	2377	632	40	939
Conductors. Means for supporting overhead	G. W. Mansfield	371,336	Oct. 11	849	218	41	174
Conduit-cover and means for controlling the same. } Slotted	H. C. Lowrie	375,370	Dec. 27	1719	450 451 452	41	1405
Conduit for electric wires. Underground	G. Rader	369,813	Sept. 13	685	185	40	1173
Conduit for underground conductors	H. Loesner and M. de Bravura	360,316	Mar. 29	2865	729	38	1468
Conduit or hose	J. Shackleton	374,089	Nov. 29	2714	728	41	1018
Conduit system. Hauling-through	J. F. Munsie	371,965	Oct. 25	1765	457	41	374
Conduit. Underground wire and steam street-	S. D. Locke	355,330	Jan. 4	53	14	38	12
Conduits, &c. Machine for cleaning	D. Fitz Gerald	362,153	May 3	139	41	39	500
Confectioner's ornamenting-funnel	F. W. Müller	361,312	Apr. 19	1333	342	39	264
Confectioners and bakers. Dropper for	F. W. Müller	361,313	Apr. 19	1334	342	39	264
Confectionery	J. Barnes	364,332	June 7	170	47	39	1121
Conformator	F. G. Johnson	365,385	June 28	1733	448	39	1439
Conformator for thumbs	J. H. Fones	373,651	Nov. 22	2087	557	41	887

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Connecting-rod.....	D. H. Dugar.....	372,843	Nov. 8	853	228	41	637
Connecting-rod.....	R. Humble and J. McLeod.....	366,725	July 19	1346	360	40	272
Connecting-rod.....	H. H. Meyer.....	364,536	June 7	479	129	39	1178
Connecting-rod.....	J. Richards.....	369,883	Sept. 13	802	214	40	1195
Connecting-rod.....	W. Wattie.....	367,566	Aug. 2	305	88	40	509
Converter.....	S. C. Collin.....	372,302	Nov. 1	22	7	41	475
Converter.....	F. W. Gordon.....	361,624	Apr. 19	1764	457	39	345
Converter.....	L. G. Laureau.....	358,559	Mar. 1	224	52	38	945
Converter-box.....	G. Westinghouse, Jr., H. M. Byllesby, O. B. Shallenberger, and A. Schmid.....	373,038	Nov. 8	1145	306	41	690
Converter, motor, and generator. Electrical.....	R. Eickemeyer.....	375,542	Dec. 27	1946	508	41	1449
Convertible chair.....	O. C. Harris.....	355,819	Jan. 11	733	191	38	151
Convertible chair.....	C. P. Kenna.....	365,523	June 28	1939	504	39	1480
Convertible chair.....	A. B. Lawrence and J. S. Batchelder.....	365,344	June 21	1656	433	39	1413
Convertible chair.....	G. M. and F. P. Mann.....	373,296	Nov. 15	1535	406	41	771
Convertible chair.....	C. H. Meddins.....	374,802	Dec. 13	903	236	41	1232
Convertible chair and cot.....	P. C. Lewis.....	369,347	Sept. 6	57	17	40	1045
Convertible chair and table.....	T. M. Schleier.....	371,099	Oct. 4	525	133	41	104
Convertible stand.....	F. S. Weatherley.....	366,051	July 5	415	113	40	78
Conveyer.....	J. Creager.....	373,389	Nov. 15	1683	446	41	799
Conveyer.....	J. M. Dodge.....	360,341	Mar. 29	2896	738	38	1473
Conveyer.....	J. M. Dodge.....	365,171	June 21	1410	371	39	1366
Conveyer apparatus.....	G. C. Blickensderfer.....	359,957	Mar. 22	2290	{ 576 577	{ 38	1354
Conveyer apparatus.....	G. C. Blickensderfer.....	359,991	Mar. 29	2347	{ 591 592	{ 38	1371
Conveyer-flights. Manufacture of.....	O. Caldwell.....	368,569	Aug. 23	1781	474	40	816
Conveyer for grain, ore, coal, or earth.....	L. D. Howard.....	359,154	Mar. 8	1054	274	38	1105
Conveyer-machine.....	J. M. Dodge.....	358,652	Mar. 1	346	83	38	968
Conveyer. Pry.....	T. J. O'Neill.....	364,846	June 14	929	246	39	1269
Conveyer. Screw.....	J. S. Wilson.....	372,950	Nov. 8	1005	271	41	664
Conveyer. Spiral.....	H. Birkholz.....	368,182	Aug. 16	1223	327	40	700
Conveyer. Spiral.....	H. Birkholz.....	371,542	Oct. 18	1140	297	41	241
Conveyer. Spiral.....	W. C. Marr.....	371,609	Oct. 18	1234	321	41	259
Conveyers. Making spiral.....	W. W. Green.....	361,998	Apr. 26	2322	{ 605 606	{ 39	453
Conveying-machine.....	J. M. Dodge.....	357,145	Feb. 1	599	154	38	531
Cooker. Food.....	S. E. Robinson.....	359,229	Mar. 8	1161	301	38	1124
Cooker. Steam.....	A. M. Amos.....	370,594	Sept. 27	1867	496	40	1406
Cooker. Steam.....	W. C. Salmon.....	367,240	July 26	2049	552	40	412
Cooker. Steam.....	L. H. Taylor.....	371,228	Oct. 11	701	180	41	147
Cooking and steaming apparatus. Feed.....	I. Shoudy, Jr., and L. L. Miller.....	371,101	Oct. 4	528	134	41	104
Cooking apparatus. Portable.....	G. Warnecke.....	367,170	July 26	1941	523	40	390
Cooking device. Feed.....	W. W. Yokom.....	368,866	Aug. 23	2197	584	40	896
Cooking utensil.....	F. P. Hervey.....	355,527	Jan. 4	300	80	38	61
Cooking-utensil holder.....	R. B. Hough.....	367,633	Aug. 2	405	112	40	528
Cooking-vessel. Steam.....	J. Hurst.....	372,416	Nov. 1	198	56	41	507
Cooking-vessels. Adjustable lid and drainer for.....	O. W. Godkin.....	364,341	June 7	180	50	39	1123
Cooking-vessels. Attachment for.....	R. A. Willison.....	357,111	Feb. 1	544	141	38	522
Cooking-vessels. Cover for.....	A. C. Cary.....	358,333	Feb. 22	2292	605	38	872
Cooler: See Beer-cooler. Milk-cooler. Lead-cooler. Water-cooler.							
Cooler for beer and other liquids.....	W. Sloppz.....	363,177	May 17	1574	414	39	784
Cooling and condensing apparatus.....	E. Theisen.....	363,094	May 17	1458	386	39	759
Cooling-board.....	C. Blood.....	362,057	May 3	9	3	39	474
Cooling by the use of refrigerating liquids and apparatus therefor.....	G. Richmond.....	356,210	Jan. 18	1308	346	38	265
Coop. Chicken.....	B. P. Cobb.....	372,966	Nov. 8	1031	276	41	669
Coops. Warming device for poultry.....	H. J. Haight.....	356,120	Jan. 18	1193	{ 316 317	{ 38	244
Cop-holders with wire. Device for filling.....	E. Gilbert.....	361,501	Apr. 19	1580	410	39	310
Cop-tube machine.....	F. Moss and R. Cook.....	373,566	Nov. 22	1962	{ 521 522	{ 41	861
Cop-winding machine. Wire.....	B. Scarles.....	364,861	June 14	949	250	39	1273
Copies of writings, drawings, and the like. Means for obtaining.....	O. Lelm.....	369,536	Sept. 6	304	84	40	1092
Copper from its ores. Extracting.....	T. S. Hunt and J. Douglas, Jr.....	364,174	May 31	2996		39	1069
Copy-holder.....	I. J. Adair.....	367,574	Aug. 2	320	92	40	512
Copy-holder.....	J. G. Parkinson and S. D. Locke.....	375,425	Dec. 27	1790	468	41	1418
Copy-holder. Printer's.....	G. W. Banta.....	357,893	Feb. 15	1676	436	38	751
Copying. Apparatus for manuscript.....	R. J. Wallace.....	359,582	Mar. 15	1696	433	38	1230
Copying apparatus. Letter.....	W. Zimmerman.....	358,954	Mar. 8	795	201	38	1056
Copying-bath.....	W. S. Mendenhall.....	366,421	July 12	903	244	40	178
Copying device. Manifold.....	J. I. Woodfill.....	355,749	Jan. 11	629	164	38	133
Copying-machine.....	P. J. Cairns.....	363,799	May 31	2461	639	39	968
Copying-pad holder.....	D. J. Champion.....	369,691	Sept. 13	524	145	40	1144
Copying-press.....	E. Büschgens.....	368,908	Aug. 23	2261	601	40	908
Copying-press.....	B. A. Dolan.....	373,769	Nov. 22	2248	602	41	918
Copying-press.....	S. Netter, H. A. C. Lehmann, and P. W. M. Mattig.....	374,748	Dec. 13	824	216	41	1217
Copying-press.....	M. T. Scarff.....	367,012	July 19	1713	461	40	340
Copying-press pad.....	A. Church.....	372,454	Nov. 1	251	70	41	518
Cord and rope. Machine for making.....	T. B. Dooley.....	373,800	Nov. 22	2292	{ 613 614	{ 41	927
Cord-clamp.....	F. Egge.....	375,143	Dec. 20	1421	370	41	1337
Cord-fastener.....	A. S. Mann.....	374,982	Dec. 20	1194	310	41	1295
Cord or rope.....	F. M. Beckford.....	373,959	Nov. 29	2519	678	41	978
Cord or twine. Machine for making.....	G. L. Brownell.....	373,385	Nov. 15	1677	445	41	798
Cordage. Machine for making.....	C. E. Barnes.....	366,064	July 5	430	117	40	82
Core-bar. Collapsible.....	R. Morgan.....	373,749	Nov. 22	2216	593	41	914
Core-barrel. Collapsible.....	D. G. Coppin.....	369,317	Sept. 6	16	4	40	1038
Core catcher and breaker.....	A. Ball.....	374,819	Dec. 13	929	242	41	1239

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Core for electro-magnets and method of forming the same.	P. Lange.....	366,408	July 12	891	240	40	176
Core-oven.....	E. Millett.....	366,733	July 19	1357	363	40	273
Core-print and gate-pattern.....	T. Thomas.....	368,311	Aug. 16	1416	374	40	737
Core-stand.....	J. Barnett.....	359,660	Mar. 22	1823	463	38	1270
Cores. Apparatus for making sand.....	J. Foran.....	368,915	Aug. 23	2272	604	40	910
Cores. Machine for making sand.....	G. A. Bowen.....	365,724	June 28	2236	582	39	1535
Cores. Method of and apparatus for forming armature-.....	F. Wynne.....	363,106	May 17	1478	391	39	763
Cork blocking and finishing machine. Automatic.....	B. G. Dodge and T. Weaver.....	374,891	Dec. 13	1028	{ 269 } 270	{ 41 } 38	1256
Cork-extracting machine.....	F. E. Schmitt.....	360,734	Apr. 5	480	122	39	90
Cork-extractor.....	F. T. Marwood.....	370,638	Sept. 27	1932	512	40	1420
Cork-fastener.....	A. Denebeim.....	358,189	Feb. 22	2109	557	38	836
Cork-fastener.....	W. M. Fischer.....	357,311	Feb. 8	828	216	38	584
Cork-fastener.....	C. Von der Linden.....	371,771	Oct. 18	1472	380	41	308
Cork-grinding machine.....	J. Lowman and J. Howard.....	372,629	Nov. 1	511	140	41	567
Cork-holder.....	J. Jester.....	369,008	Aug. 30	2406	638	40	945
Cork-presser.....	F. M. Crouse and R. E. Lewis.....	360,340	Mar. 29	2895	738	38	1473
Cork-puller.....	D. J. Hurley.....	372,266	Oct. 25	2220	569	41	457
Cork-retainer.....	F. E. Heinig and S. Leidigh.....	357,825	Feb. 15	1588	412	38	735
Corking machine. Bottle.....	T. R. Lowerre.....	365,753	June 28	2283	593	39	1543
Corkscrew.....	E. Becker.....	373,512	Nov. 22	1891	501	41	849
Corkscrew.....	F. W. Livermore.....	375,368	Dec. 27	1716	450	41	1404
Corkscrew.....	E. D. Williams.....	373,872	Nov. 29	2398	644	41	955
Corkscrew. Pocket.....	L. B. Haff.....	356,936	Feb. 1	266	73	38	470
Corn and cane cutter.....	J. Albertson.....	366,291	July 12	738	200	40	147
Corn. Apparatus for separating germs from.....	G. S. and R. W. Graves.....	357,708	Feb. 15	1411	371	38	702
Corn-cutter.....	R. Godfrey.....	360,219	Mar. 29	2724	689	38	1440
Corn-cutting machine.....	G. B. Dean. (Reissue).....	10,880	Nov. 8	1151	307	41	691
Corn. Device for compressing shocks of.....	W. C. Gregory.....	365,742	June 28	2267	590	39	1541
Corn-drill and planter. Double lister.....	J. S. Williams and B. F. Whitney.....	363,711	May 24	2337	606	39	938
Corn-dropper. Automatic.....	A. W. Straughn.....	368,791	Aug. 23	2095	555	40	875
Corn-dropping attachment. Automatic.....	W. W. Walters.....	374,815	Dec. 13	922	241	41	1236
Corn-husker.....	A. Decker.....	357,523	Feb. 8	1128	295	38	640
Corn-husker.....	W. H. Tyler.....	368,902	Aug. 23	2248	598	40	906
Corn husking and crushing machine.....	E. A. Porter.....	360,044	Mar. 29	2446	{ 622 } 623	{ 38 } 38	1390
Corn knife. Green.....	H. K. W. Wilcox.....	359,950	Mar. 22	2278	572	38	1352
Corn-popper.....	J. B. Davis.....	365,586	June 28	2039	532	39	1499
Corn-popper.....	A. J. Tyler.....	366,533	July 12	1059	288	40	210
Corn-remover.....	E. J. Haendler.....	370,474	Sept. 27	1688	448	40	1374
Corn-sheller.....	A. V. and M. H. Pitts.....	361,644	Apr. 19	1791	464	39	351
Corn-sheller.....	B. B. Price.....	370,022	Sept. 13	1024	270	40	1235
Corn-sheller.....	B. M. Root.....	368,356	Aug. 16	1474	{ 392 } 393	{ 40 } 39	748
Corn-shellors. Husk-cutting attachment for.....	W. W. Wills.....	363,712	May 24	2339	607	39	938
Corn. Shield for listed.....	J. A. Showers.....	363,426	May 24	1910	502	39	856
Corn splitting and crushing machine.....	E. A. Porter.....	360,045	Mar. 29	2447	623	38	1391
Corner-iron. Sheet-metal.....	L. L. Sagendorph.....	364,044	May 31	2814	730	39	1035
Cornet or other valve instrument.....	E. O. Shepard and M. R. Field.....	361,553	Apr. 19	1646	427	39	324
Cornets. Tremolo attachment for.....	F. Menzenhauer.....	369,804	Sept. 13	670	182	40	1170
Cornice-brake.....	G. C. Keene.....	362,749	May 10	972	263	39	661
Cornice-brake and shearing-machine. Combined.....	G. C. Keene.....	374,306	Dec. 6	194	51	41	1083
Cornice-pole bracket.....	J. Hardy and W. N. Clark, Jr.....	355,449	Jan. 4	201	54	38	41
Cornice. Window.....	W. C. Doscher.....	360,669	Apr. 5	392	99	39	74
Cornstalk-cutter.....	W. Walker.....	359,300	Mar. 15	1255	325	38	1149
Corrugating-machines. Attachment for.....	G. C. Keene.....	372,916	Nov. 8	956	258	41	656
Corset.....	M. Adler.....	357,356	Feb. 8	880	231	38	593
Corset.....	M. Adler.....	371,725	Oct. 18	1410	365	41	295
Corset.....	I. W. Birdseye.....	357,362	Feb. 8	887	233	38	595
Corset.....	M. P. Bray.....	374,392	Dec. 6	313	83	41	1106
Corset.....	B. Epperly.....	367,747	Aug. 2	597	162	40	563
Corset.....	D. H. Fanning.....	366,658	July 19	1250	334	40	254
Corset.....	J. Fuchs.....	367,140	July 26	1903	514	40	383
Corset.....	H. W. Gilbert.....	357,078	Feb. 1	472	126	38	509
Corset.....	T. S. Gilbert.....	357,917	Feb. 15	1705	445	38	757
Corset.....	T. S. Gilbert.....	371,444	Oct. 11	1003	261	41	204
Corset.....	C. A. Griswold.....	358,348	Feb. 22	2314	613	38	876
Corset.....	C. A. Griswold.....	358,349	Feb. 22	2315	613	38	876
Corset.....	M. W. Henius.....	368,286	Aug. 16	1389	366	40	731
Corset.....	M. E. Lunn.....	371,511	Oct. 11	1097	285	41	223
Corset.....	W. McCabe.....	372,162	Oct. 25	2063	528	41	426
Corset.....	I. Newman.....	360,323	Mar. 29	2873	731	38	1469
Corset.....	G. D. Nichols.....	359,225	Mar. 8	1153	299	38	1123
Corset.....	G. D. Nichols.....	367,113	July 26	1862	503	40	376
Corset.....	M. J. Roberts.....	368,241	Aug. 16	1320	{ 347 } 348	{ 40 } 38	717
Corset.....	T. P. Taylor.....	355,954	Jan. 11	951	248	38	192
Corset.....	T. P. Taylor.....	373,864	Nov. 29	2385	{ 641 } 642	{ 41 } 38	953
Corset.....	E. A. Terry.....	356,397	Jan. 18	1574	414	38	316
Corset.....	S. M. Warren.....	366,359	July 12	832	223	40	164
Corset.....	A. M. Williamson.....	371,401	Oct. 11	944	243	41	191
Corset and dress protector.....	M. Dewey.....	361,494	Apr. 19	1570	407	39	309
Corset and making the same.....	B. Baldwin.....	358,249	Feb. 22	2179	574	38	850
Corset-cover and bustle.....	G. D. Nichols.....	359,807	Mar. 22	2052	519	38	1311
Corset-fastener.....	B. R. Davenport.....	367,373	Aug. 2	25	6	40	456
Corset-fastener.....	R. M. Hunter.....	363,393	May 24	1858	489	39	846
Corset-fastening.....	L. Hill.....	374,407	Dec. 6	334	87	41	1109
Corset-fastening.....	G. Moulinet.....	360,613	Apr. 5	318	78	39	60
Corset-fastening.....	W. Mueller.....	361,593	Apr. 19	1716	443	39	336
Corset-fastening.....	R. W. Stilwell.....	369,972	Sept. 13	945	250	40	1220
Corset-stay.....	T. P. and A. Taylor.....	374,215	Dec. 6	64	17	41	1059

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Corset-stiffener	C. W. Firnhaber	359,015	Mar. 8	882	225	38	1071
Corset-stiffening	E. B. Cady	373,720	Nov. 22	2178	582 583	41	906
Corset-trimming	J. Stone	375,106	Dec. 20	1370	357	41	1327
Corsets. Elastic gore for	M. P. Bray	362,419	May 3	488	138	39	569
Corsets, &c. Textile eyelet for	E. K. Warren	371,394	Oct. 11	936	241	41	190
Cot and canopy. Folding canvas	S. F. Seely	363,855	May 31	2539	660	39	983
Cot. Convertible	L. Banks	358,528	Mar. 1	176	41	38	935
Cot. Folding	H. D. and C. H. Hard and J. Crawford.	373,363	Nov. 15	1648	436	41	792
Cot. Folding	C. J. Skau	364,053	May 31	2823	732	39	1036
Cot. Folding	E. F. Tilley	375,303	Dec. 20	1629	431	41	1379
Cotter-key	W. P. Brown	357,813	Feb. 15	1566	408	38	731
Cotter-pins. Machine for finishing	J. Adt	374,136	Nov. 29	2775	746	41	1028
Cotton and cotton-seed press	J. M. Drew	364,995	June 14	1144	299	39	1308
Cotton and hay press. Perpetual	J. La Dow	365,824	July 5	88	25, 26	40	19
Cotton and other presses. Packing attachment for	W. R., J. T., and G. B. Rodgers	357,232	Feb. 8	721	186	38	563
Cotton and wool waste. Machine for cleaning	W. Dearborn	360,566	Apr. 5	254	63, 64	39	49
Cotton. Apparatus for handling	D. A. Sailor	362,041	Apr. 26	2377	620	39	463
Cotton-beater	T. Oldroyd	357,783	Feb. 15	1535	400	38	724
Cotton-blocker	J. T. Jordan	370,875	Oct. 4	183	48	41	36
Cotton-chopper	J. B. Ammons	364,699	June 14	690	184	39	1226
Cotton-chopper	W. T. Arbuckle	357,058	Feb. 1	444	118	38	504
Cotton-chopper	C. D. Bailey and J. J. Wester	364,746	June 14	760	202	39	1240
Cotton-chopper	J. J. Ballard	372,008	Oct. 25	1821	472	41	383
Cotton-chopper	E. W. Clark	369,316	Sept. 6	15	4	40	1038
Cotton-chopper	G. W. Featherston	368,082	Aug. 9	1079	288	40	664
Cotton-chopper	W. T. Kelley	369,249	Aug. 30	2720	724	40	1007
Cotton-chopper	B. C. Marshall	374,610	Dec. 13	637	166	41	1179
Cotton-chopper	E. D. Patterson and J. T. Webster	356,424	Jan. 18	1614	423 424	38	323
Cotton-chopper	H. W. Sacks	364,859	June 14	945	249	39	1272
Cotton-chopper	A. F. Samford and C. H. Peevy	362,541	May 10	664	187	39	606
Cotton-chopper	J. D. Schofield	375,429	Dec. 27	1796	470	41	1420
Cotton chopper and cultivator	E. Franklin	364,811	June 14	878	231	39	1259
Cotton chopper and cultivator	J. Lindy and H. H. Hood	371,955	Oct. 25	1746	452	41	370
Cotton chopper and cultivator	J. A. Schaumleffel	356,853	Feb. 1	156	41	38	451
Cotton chopper and cultivator	H. N. Sibley	367,558	Aug. 2	295	83	40	507
Cotton chopper and cultivator. Combined	C. L. Ferriott	360,214	Mar. 29	2716	687	38	1439
Cotton chopper and cultivator. Combined	B. L. Jones	365,007	June 14	1160	304	39	1311
Cotton chopper and scraper	S. J. Rouse	365,864	July 5	151	39, 40	40	31
Cotton chopper and scraper. Combined	W. H. Mercer	355,547	Jan. 4	327	87	38	66
Cotton-chopper, harrow, and cultivator. Combined	J. H. Robinson	371,790	Oct. 18	1500	387	41	313
Cotton chopping and siding machine	J. H. Johnson and T. Belton	375,492	Dec. 27	1879	491	41	1436
Cotton cleaner and condenser	D. Hess	368,087	Aug. 9	1087	289	40	666
Cotton-compressor	J. A. Gaboury	373,357	Nov. 15	1640	434 435	41	790
Cotton-compressor	G. Taylor	364,384	June 7	241	68	39	1134
Cotton-condenser	A. G. McGehee	360,236	Mar. 29	2756	699	38	1446
Cotton-gin	B. Andrews	375,115	Dec. 20	1381	359	41	1329
Cotton-gin	D. W. Gaskill	356,463	Jan. 25	1669	437	38	341
Cotton-gin	M. Toulmin	362,125	May 3	100	31, 32	39	493
Cotton-gin	E. Van Winkle	366,139	July 5	530	143	40	100
Cotton-gin attachment	M. L. Blackwelder	369,977	Sept. 13	952	251	40	1222
Cotton-gin attachment	R. M. Blackwelder	369,978	Sept. 13	954	252	40	1222
Cotton-gin brush	C. W. Brigg	369,041	Aug. 30	2452	650	40	954
Cotton-gin rib	S. L. Jordan	364,176	May 31	3000	778	39	1070
Cotton-gin rib	H. W. Libbey	374,193	Dec. 6	40	11	41	1054
Cotton-gin-rib attachment	J. E. Kelly	370,544	Sept. 27	1788	477	40	1392
Cotton gin, scale, and press	P. E. Williamson	359,914	Mar. 22	2223	559	38	1342
Cotton, &c. Machine for cleaning	J. T. Turner	374,160	Nov. 29	2806	753	41	1034
Cotton, &c. Machine for opening and cleaning	R. Kitson	373,075	Nov. 15	1198	319 320	41	710
Cotton, &c. Machine for opening and cleaning	W. and W. Lord	369,350	Sept. 6	64	18	40	1046
Cotton. Machine for opening and preparing	R. Kitson	374,899	Dec. 13	1047	273 274	41	1260
Cotton. Machine for opening and preparing	R. Kitson	375,362	Dec. 27	1707	448	41	1402
Cotton-openers. Dust-trunk cleaner for	H. W. Fairbanks	365,175	June 21	1415	373	39	1367
Cotton-openers. Evening mechanism for	J. C. Potter	375,301	Dec. 20	1623	425	41	1378
Cotton-openers. Trunk for	H. C. Perham	365,484	June 28	1870	486	39	1465
Cotton or hay press	W. R. Berry	361,743	Apr. 26	1935	502	39	384
Cotton or hay press	A. and F. T. McGowen	362,299	May 3	317	87	39	535
Cotton or hay press	H. M. Meetze	368,225	Aug. 16	1302	343	40	713
Cotton or hay press	C. D. Neeb	359,515	Mar. 15	1585	406	38	1210
Cotton-packer	J. T. Dulany	358,805	Mar. 1	560	140	38	1008
Cotton-packer	R. K. Thompson	370,829	Oct. 4	103	28	41	22
Cotton-picker	W. H. Rohling	364,440	June 7	327	89, 90	39	1150
Cotton-picker stem	C. T. Mason, Jr.	375,084	Dec. 20	1333	347	41	1321
Cotton-picker stem	R. F. Spangenberg	364,607	June 7	563	152	39	1194
Cotton-picking and cleaning machinery	W. H. Goldsmith	365,125	June 21	1348	357	39	1354
Cotton-picking machine	J. C. Johnston	358,273	Feb. 22	2216	585	38	857
Cotton-press	W. H. Meador and R. Carl	363,159	May 17	1550	409	39	778
Cotton-press	L. Miller	367,220	July 26	2022	544	40	407
Cotton-press	L. Miller	367,221	July 26	2024	544 545	40	407
Cotton-press	L. Miller	367,310	July 26	2154	580	40	430
Cotton-press	U. T. Stewart	370,288	Sept. 20	1403	377	40	1314
Cotton-press	J. H. and W. H. Tomlinson	365,765	June 28	2298	597	39	1547
Cotton-press clamp	W. F. Moss	372,862	Nov. 8	878	234	41	641
Cotton-press. Roller	H. A. Evans	366,943	July 19	1630	436 437	40	325
Cotton-press. Self-feeding	M. R. Davis	365,799	July 5	55	16, 17	40	12
Cotton-scraper	M. Danos	362,365	May 3	405	112	39	553
Cotton-scraper	B. C. Jinnett	374,254	Dec. 6	119	31	41	1070

Alphabetical list of inventions—Continued.

Invention.	e.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cotton-seed-oil mills. Separator for	M. Wallace	366,540	July 12	1066	290	40	212
Cotton-stalk cutter	J. P. Lockwood	372,858	Nov. 8	874	{ 233 234	{ 41	640
Cotton waste, &c. Machine for cleaning and separating	H. A. Davis	359,851	Mar. 22	2133	537	38	1325
Counter	J. S. Dunlap	358,025	Feb. 22	1853	490	38	790
Counter-box	W. H. Stacy	364,316	June 7	151	42	39	1117
Counter-gate for banks, &c	C. W. Clinton	375,532	Dec. 27	1931	506	41	1446
Counter-seat. Adjustable	F. W. Gowell	363,226	May 17	1637	430	39	795
Counter-stiffener	G. H. Briggs	357,901	Feb. 15	1685	439	38	753
Counter-weights. Device for winding up	V. Popp	358,623	Mar. 1	306	73	38	960
Counterbore, reamer, or countersink	A. Latham	370,484	Sept. 27	1699	451	40	1376
Countersink	H. Clark	358,731	Mar. 1	460	{ 111 112	{ 38	989
Countersink	A. U. Smith	371,387	Oct. 11	926	238	41	188
Coupling:							
See Bell-cord coupling. Lubricator-coupling.							
Bell-rope coupling. Pipe-coupling.							
Car-coupling. Reach-coupling.							
Collar and neck-strap coupling. Rod-coupling.							
Electric coupling. Rope-coupling.							
Electric-brake coupling. Rope or cable coupling.							
ling. Scythe-snath coupling.							
Evener-coupling. Shaft-coupling.							
Felly-coupling. Sleigh-coupling.							
Hame-coupling. Thill-coupling.							
Hose-coupling. Tire-coupling.							
Hose and pipe coupling. Tube-coupling.							
ling. Tug-coupling.							
Hose or pipe coupling. Vehicle reach-coupling.							
ling. Whiffletree-coupling.							
Locomotive-coupling. Wire and band coupling.							
Coupling	H. Traver and J. Weeks	373,256	Nov. 15	1476	390	41	760
Coupling-breaker	R. H. Smith	369,887	Sept. 13	809	215	40	1196
Coupling for electric or other wires	F. S. Pond	372,637	Nov. 1	523	143	41	570
Coupling for hose, steam-pipe, &c	P. Jacobson and A. Bade	373,292	Nov. 15	1530	404	41	770
Coupling-hook	J. D. Gawn	367,969	Aug. 9	928	251	40	636
Coupling-tool	A. Nutting	369,731	Sept. 13	575	156	40	1153
Cover-fastening	F. E. Keyes	355,538	Jan. 4	316	84	38	64
Cover-fastening	G. L. Mason	362,170	May 3	162	47	39	504
Cover or lid	R. W. Graves	368,886	Aug. 23	2225	592	40	901
Cracker-arranging machine	E. Moneuse	367,653	Aug. 2	442	122	40	535
Cradle	J. McClurg and S. C. McMaster	371,611	Oct. 18	1236	322	41	259
Cradle. Child's	A. H. Ordway	371,700	Oct. 18	1375	355	41	287
Cradle. Child's	P. E. McDonald	362,644	May 10	826	226	39	634
Cradles or chairs. Motor for rocking	E. E. McGrath	357,088	Feb. 1	487	130	38	512
Crane	T. J. Morris	362,850	May 10	1108	300	39	686
Crane	R. Bagaley	369,423	Sept. 6	156	45	40	1061
Crane	W. H. Ridgway	374,756	Dec. 13	835	219	41	1219
Crane	F. Service	363,424	May 24	1908	501	39	855
Crane	J. S. Worth	375,665	Dec. 27	2131	554	41	1482
Crane for coal-carts	T. M. Hackett	370,014	Sept. 13	1012	267	40	1232
Crane for excavating-machines	L. Birkhead	356,742	Feb. 1	4	1	38	423
Crank. Engine	J. E. McIntosh	360,711	Apr. 5	451	115	39	84
Crank-wheels. Device for applying foot-power to	J. C. Clark	359,559	Mar. 15	1658	423	38	1223
Crate	T. F. Lerch	365,442	June 28	1813	472	39	1454
Crate	L. Mason and C. B. Shafer	374,612	Dec. 13	639	167	41	1179
Crate	C. R. Swan	372,992	Nov. 8	1064	284	41	675
Crate-fastener	F. R. Fisher	373,730	Nov. 22	2193	586	41	909
Crate-fastener	F. R. Fisher and P. S. Robbins	373,731	Nov. 22	2193	586	41	909
Crate. Folding	E. B. Merritt	363,077	May 17	1435	380	39	755
Crate. Fruit	G. H. Brown	375,530	Dec. 27	1926	505	41	1445
Crate. Fruit	J. H. Marvil	374,799	Dec. 13	900	235	41	1231
Crate. Knockdown	J. T. Aikin	368,801	Aug. 23	2108	558	40	877
Cream from milk and churning the cream. Device for separating	J. Loftus	356,003	Jan. 11	1012	266	38	205
Cream-skimming device	H. R. Savage	361,720	Apr. 26	1907	494	39	379
Creamer	W. S. Mummary	360,459	Apr. 5	90	23	39	18
Creamer. Centrifugal	R. C. Hansen and M. H. Brunn	356,466	Jan. 25	1673	438	38	342
Creamer. Centrifugal	J. A. Howell and H. A. Pooler	366,483	July 12	982	266	40	195
Creamer or milk-pitcher	H. Wettstein	359,304	Mar. 15	1263	327	38	1150
Creaming-can	S. G. Baldwin	362,812	May 10	1060	288	39	678
Creaming-can	J. Turner	356,511	Jan. 25	1741	454	38	355
Cremation-furnace	G. Geronimi and G. Venini	361,407	Apr. 19	1459	377	39	287
Cremator or apparatus for burning refuse	J. Hewes	371,842	Oct. 18	1577	408	41	329
Crematory	M. L. Davis	359,138	Mar. 8	1033	{ 268 269	{ 38	1102
Creel	C. H. Hanson and F. Nourse	367,908	Aug. 9	834	224	40	619
Crib. Child's	C. Messerschmitt	361,016	Apr. 12	899	227	39	171
Crib. Child's	E. W. Smith	374,277	Dec. 6	143	38	41	1074
Crib. Folding	T. Bickford	360,556	Apr. 5	241	60	39	47
Crib or cradle	D. W. Pettis	360,908	Apr. 12	729	192	39	142
Cribs. Pneumatic apparatus for cleaning strainers of submerged	J. G. Falcon	374,952	Dec. 20	1148	{ 300 301	{ 41	1286
Crimping-machine	J. W. D. Fifield	363,055	May 17	1406	372	39	749
Crimping-machine	P. Fischer	367,030	July 26	1742	469	40	354
Crimping-machine	J. Phillips	374,082	Nov. 29	2700	{ 724 725	{ 41	1014
Crock-carrier	G. K. Schauer	357,339	Feb. 8	859	226	38	590
Cross-head	E. Hill	373,661	Nov. 22	2098	561	41	890
Cross-head-pushing device	W. McIntosh	359,803	Mar. 22	2045	518	38	1310
Cross-over switch	N. Cort	357,952	Feb. 15	1750	457	38	765
Cross-tie	W. Wharton, Jr.	359,115	Mar. 8	1008	260	38	1096

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cross-tie and means for attaching the rails thereof.	P. J. Sévérac	361,330	Apr. 19	1350	347	39	267
Metallic							
Crucible cap and guard	C. C. Horn	357,958	Feb. 15	1757	458	38	766
Crucible-furnace	H. Epping	356,061	Jan. 11	1088	286	38	219
Cruppers. Machine for making leather	C. W. Rogers	360,730	Apr. 5	475	121	39	89
Crusher:							
See Clay-crusher. Ore-crusher.							
Clod-crusher. Stone and ore crusher.							
Grape and apple							
crusher.							
Crushing and grinding machine	J. F. Winchell	365,718	June 28	2227	580	39	1533
Crushing and grinding mill	W. H. Bane	359,659	Mar. 22	1821	463	38	1270
Crushing and grinding mill	J. F. Winchell	359,588	Mar. 15	1722	438	38	1234
Crushing and grinding mill	J. F. Winchell	365,717	June 28	2224	579	39	1532
Crushing and pulverizing mill	F. M. Davis	373,817	Nov. 29	2321	{ 622 623 }	{ 41 41 }	941
Crushing-machine	L. W. Hewes	356,876	Feb. 1	191	52, 53	38	457
Crushing-machines. Feed-regulator for	D. Marchant	369,117	Aug. 30	2562	681	40	974
Crushing-mill	A. E. Roe	375,199	Dec. 20	1494	391	41	1353
Crushing or pulverizing mill	W. L. Card	372,742	Nov. 8	677	185	41	607
Crystal pendant for show-stands, &c.	F. A. Weber	361,245	Apr. 12	1238	315	39	235
Cue-tip	H. Story	374,327	Dec. 6	225	60	41	1088
Cuff and making the same	J. K. P. Pine	360,471	Apr. 5	104	26	39	21
Cuff-fastener	T. E. Barrow	372,887	Nov. 8	915	247	41	648
Cuff-fastener	H. A. Clark	373,272	Nov. 15	1499	395	41	765
Cuff-fastener	G. N. Dutton	375,672	Dec. 27	2143	557	41	1484
Cuff-fastener	D. Stone	364,143	May 31	2957	767	39	1061
Cuff-fastener. Spiral	T. M. Jenks	375,358	Dec. 27	1703	447	41	1401
Cuff-holder	G. E. Adams	357,167	Feb. 8	635	165	38	547
Cuff-holder	C. G. Bloomer	370,039	Sept. 20	1054	279	40	1248
Cuff-holder	J. M. Bolton	374,579	Dec. 13	597	155	41	1171
Cuff-holder	S. H. Brooks	374,931	Dec. 20	1106	288	41	1279
Cuff-holder	C. E. Candee	369,160	Aug. 30	2611	693	40	985
Cuff-holder	M. F. Connett, Jr., and A. H. White ..	355,386	Jan. 4	125	34	38	26
Cuff-holder	S. B. Ellithorp	368,081	Aug. 9	1079	288	40	664
Cuff-holder	H. C. Frank	373,556	Nov. 22	1949	517	41	859
Cuff-holder	J. W. Henry	370,786	Oct. 4	51	13	41	12
Cuff-holder	C. A. Howell	365,685	June 28	2174	567	39	1524
Cuff-holder	J. Irwin	371,264	Oct. 11	752	193	41	156
Cuff-holder	M. T. Jones	371,328	Oct. 11	838	215	41	172
Cuff-holder	A. S. Pattison	365,626	June 28	2086	544	39	1508
Cuff-holder	G. H. Phelps	368,305	Aug. 16	1410	372	40	735
Cuff-holder	G. H. Phelps	368,306	Aug. 16	1411	373	40	736
Cuff-holder	A. W. Sawyer	355,343	Jan. 4	73	20	38	15
Cuff-holder	E. S. Smith	363,691	May 24	2309	599	39	933
Cuff-holder	C. H. Tappan	363,699	May 24	2321	602	39	935
Cuff-holder	G. K. Webster	366,986	July 19	1685	453	40	335
Cuff-holder	E. Zöller	359,528	Mar. 15	1606	411	38	1214
Cuff-holder. Adjustable	C. H. Murray	368,350	Aug. 16	1465	391	40	747
Cuff-retainer	A. Bond	368,750	Aug. 23	2038	540	40	865
Cuff-retainer	W. S. Gubelmann	362,000	Apr. 26	2325	606	39	454
Cuffs. Adjustable holder for	D. C. Williamson	362,134	May 3	111	34	39	495
Cuffs. Making	J. K. P. Pine	371,096	Oct. 4	520	131	41	103
Culinary apparatus	E. Fowble	365,915	July 5	225	59	40	43
Culinary boiler	C. D. Salfeld	373,310	Nov. 15	1557	412	41	775
Culinary or egg beater	C. S. Pusey	372,043	Oct. 25	1886	486	41	394
Culinary utensil	F. H. Hill	368,210	Aug. 16	1262	336	40	707
Culinary vessel	H. Kaplan	368,340	Aug. 16	1453	386	40	744
Culinary vessel. Steam	T. J. Leary	355,328	Jan. 4	51	14	38	11
Cultivator	R. and M. R. Adams	363,571	May 24	2131	552	39	899
Cultivator	W. C. Barker	373,427	Nov. 22	1744	462	41	821
Cultivator	J. P. Black	355,915	Jan. 11	882	231	38	179
Cultivator	J. P. Black	355,916	Jan. 11	883	231	38	179
Cultivator	J. A. Blount	360,410	Apr. 5	11	3	39	4
Cultivator	D. S. Blue and L. Halter	356,094	Jan. 18	1154	{ 305 306 }	{ 38 38 }	237
Cultivator	E. S. and C. R. Brown	358,013	Feb. 22	1840	487	38	788
Cultivator	T. J. Brown	360,274	Mar. 29	2812	715	38	1458
Cultivator	M. Bruner, Jr.	373,963	Nov. 29	2527	{ 679 680 }	{ 41 41 }	980
Cultivator	J. Chalfant	359,242	Mar. 15	1180	308	38	1135
Cultivator	J. W. Clark	366,927	July 19	1606	430	40	321
Cultivator	W. M. Coston	374,941	Dec. 20	1131	296	41	1283
Cultivator	J. H. D'Lamatter	373,343	Nov. 15	1603	423	41	784
Cultivator	M. H. Damerell	372,206	Oct. 25	2131	548	41	440
Cultivator	M. Danos	360,281	Mar. 29	2823	717	38	1459
Cultivator	S. W. Decker	362,575	May 10	711	198	39	613
Cultivator	E. E. Eddington	364,095	May 31	2877	{ 746 747 }	{ 39 39 }	1047
Cultivator	M. A. Eisenhour	364,583	June 7	535	144	39	1189
Cultivator	P. Frichette	356,631	Jan. 25	1917	503	38	388
Cultivator	F. C. Geiger	374,469	Dec. 6	428	112	41	1128
Cultivator	M. G. Graham	357,707	Feb. 15	1408	{ 370 371 }	{ 38 38 }	702
Cultivator	C. S. Guilkey	359,535	Mar. 15	1613	413	38	1216
Cultivator	L. P. Helmer	367,519	Aug. 2	243	69	40	498
Cultivator	W. K. Hoagland	367,913	Aug. 9	840	227	40	620
Cultivator	W. F. Hubbell	367,982	Aug. 9	942	255	40	639
Cultivator	S. T. Hudson	357,202	Feb. 8	684	177	38	557
Cultivator	S. Irwin, Jr.	356,586	Jan. 25	1842	483	38	374
Cultivator	H. Jelks	358,453	Mar. 1	42	12	38	911
Cultivator	P. E. Kirven	360,304	Mar. 29	2850	726	38	1465
Cultivator	E. M. Kissell	362,517	May 10	630	178	39	600

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cultivator.....	W. A. Knowlton.....	358,557	Mar. 1	221	51	38	944
Cultivator.....	J. W. Kraus.....	372,627	Nov. 1	509	139	41	567
Cultivator.....	N. P. and J. W. Lehr.....	364,943	June 14	1069	278	39	1294
Cultivator.....	D. C. Malony and J. Schrenk.....	369,799	Sept. 13	663	180	40	1169
Cultivator.....	P. P. Mast.....	361,307	Apr. 19	1325	340	39	263
Cultivator.....	P. P. Mast.....	369,951	Sept. 13	906	241	40	1214
Cultivator.....	C. E. McBeth.....	365,398	June 28	1749	454	39	1443
Cultivator.....	M. Miles.....	358,287	Feb. 22	2235	590	38	861
Cultivator.....	J. H. Moore.....	368,158	Aug. 9	1181	315	40	684
Cultivator.....	J. F. Packer and W. H. Gaede.....	369,875	Sept. 13	789	211	40	1192
Cultivator.....	D. C. Pierce.....	371,355	Oct. 11	877	225	41	179
Cultivator.....	M. Platz.....	361,715	Apr. 26	1900	493	39	378
Cultivator.....	O. L. Neisler.....	356,289	Jan. 18	1420	375	38	287
Cultivator.....	A. J. Nelson.....	359,460	Mar. 15	1489	{ 381 382 }	38	1193
Cultivator.....	W. M. Roberts.....	358,073	Feb. 22	1932	{ 509 510 }	38	805
Cultivator.....	A. Robertson.....	356,504	Jan. 25	1729	452	38	353
Cultivator.....	J. W. Robinson.....	359,285	Mar. 15	1238	322	38	1146
Cultivator.....	N. Roggy.....	366,258	July 12	701	190	40	140
Cultivator.....	G. Schürle.....	370,977	Oct. 4	360	89, 90	41	72
Cultivator.....	J. M. Sutton.....	368,252	Aug. 16	1338	352	40	721
Cultivator.....	T. G. Tasker.....	372,500	Nov. 1	314	86	41	530
Cultivator.....	H. N. Timms.....	371,995	Oct. 25	1803	467	41	381
Cultivator.....	F. H. C. Van.....	367,684	Aug. 2	493	135	40	544
Cultivator.....	G. H. Wainwright and P. J. Royall.....	356,608	Jan. 25	1874	493	38	381
Cultivator.....	W. V. Walker.....	357,250	Feb. 8	745	193	38	568
Cultivator.....	W. S. Weir.....	362,649	Apr. 26	2387	623	39	465
Cultivator.....	D. J. Williams.....	373,708	Nov. 22	2166	579	41	904
Cultivator.....	W. A. Worden.....	356,674	Jan. 25	1968	517	38	399
Cultivator.....	J. R. Wyatt.....	375,719	Dec. 27	2210	575	41	1497
Cultivator.....	C. A. Yont.....	361,476	Apr. 19	1551	402	39	305
Cultivator adjustable shovel-block.....	H. M. Godfrey.....	356,361	Jan. 18	1527	401	38	307
Cultivator and corn-planter. Combined.....	E. Westhoff.....	368,799	Aug. 23	2104	{ 557 558 }	40	877
Cultivator and corn-planter. Combined.....	S. W. Wright.....	365,893	July 5	189	48, 49	40	37
Cultivator and harrow. Combined.....	H. Deitchler.....	368,935	Aug. 30	2309	613	40	926
Cultivator and planter. Combined.....	W. R. Parnell.....	363,299	May 17	1733	{ 453 454 }	39	814
Cultivator and potato-digger. Combined.....	H. C. Moore.....	365,844	July 5	117	32	40	24
Cultivator and pulverizer.....	L. C. Erwin.....	361,866	Apr. 26	2124	550	39	418
Cultivator and pulverizer. Combined.....	J. Ashenfelter.....	369,492	Sept. 6	241	68	40	1079
Cultivator and seed-drill. Combined garden.....	C. C. Hunter.....	356,129	Jan. 18	1204	320	38	246
Cultivator and seeder. Wheel.....	G. P. Reid.....	371,097	Oct. 4	521	132	41	103
Cultivator and weed-cutter. Corn.....	W. Murphy.....	362,033	Apr. 26	2367	617	39	461
Cultivator attachment.....	D. J. Bissell.....	363,981	May 31	2733	708	39	1018
Cultivator attachment.....	D. M. Ditto.....	365,056	June 21	1242	327	39	1337
Cultivator attachment.....	H. H. Fulton.....	359,780	Mar. 22	2016	510	38	1304
Cultivator attachment.....	E. Harriss and J. N. Tiger.....	370,537	Sept. 27	1780	475	40	1390
Cultivator attachment.....	A. E. Kunderd.....	375,638	Dec. 27	2093	545	41	1475
Cultivator attachment.....	H. C. Pratt.....	359,518	Mar. 15	1591	{ 407 408 }	38	1211
Cultivator attachment.....	T. B. Swindler.....	356,052	Jan. 11	1078	283	38	217
Cultivator beam and point.....	N. J. Ady and J. W. Haith.....	355,906	Jan. 11	872	228	38	177
Cultivator. Cotton.....	C. N. Hutchins.....	365,073	June 21	1265	334	39	1340
Cultivator-coupling.....	P. Rader.....	373,604	Nov. 22	2017	535	41	873
Cultivator. Disk.....	A. Spire.....	374,503	Dec. 6	475	123	41	1137
Cultivator, duster, and digger.....	W. C. Davidson.....	373,275	Nov. 15	1502	396	41	765
Cultivator for listed corn. Harrow.....	R. Woods.....	359,988	Mar. 22	2339	588	38	1363
Cultivator. Gopher.....	T. O. Thorson.....	375,514	Dec. 27	1906	498	41	1442
Cultivator, harrow, and cotton-chopper.....	J. H. Fowles.....	363,999	May 31	2752	714	39	1022
Cultivator, harrow, and seeder. Combined.....	D. Walls.....	371,807	Oct. 18	1523	393	41	318
Cultivator. Listed-corn.....	C. Guenette.....	364,169	May 31	2990	777	39	1068
Cultivator. Listed-corn.....	O. King and A. Morgan.....	367,530	Aug. 2	256	73	40	500
Cultivator. Listed-corn.....	L. Kirlin.....	355,652	Jan. 4	484	129	38	95
Cultivator. Lister.....	J. P. Lutes.....	368,894	Aug. 23	2238	595	40	904
Cultivator. Listing.....	W. R. Wilson.....	360,334	Mar. 29	2887	735	38	1472
Cultivator, planter, and harrow. Combined.....	F. M. Dougan.....	356,104	Jan. 18	1169	{ 309 310 }	38	240
Cultivator. Pulverizing.....	J. L. Paynter.....	360,109	Mar. 29	2564	651	38	1411
Cultivator. Rotary.....	B. T. Coleman and C. Howard.....	366,928	July 19	1607	430	40	321
Cultivator, seeder, planter, and fertilizer-distributor. Combined.....	J. A. Ogletree.....	373,475	Nov. 22	1811	482	41	835
Cultivator-shield.....	W. M. McGaugh.....	359,801	Mar. 22	2043	517	38	1309
Cultivator. Sulky.....	C. Bates.....	365,458	June 28	1832	476	39	1458
Cultivator. Sulky.....	J. C. Bird.....	365,900	July 5	198	50, 51	40	38
Cultivator. Sulky.....	J. L. Ingersoll.....	360,300	Mar. 29	2847	725	38	1464
Cultivator. Sulky.....	I. B. Kilgore.....	362,285	May 3	300	83	39	532
Cultivator. Sulky.....	W. A. Rice and H. S. Cook.....	371,709	Oct. 18	1387	358	41	290
Cultivator. Tongueless.....	H. J. Schmeiser.....	357,235	Feb. 8	724	188	38	564
Cultivator. Tongueless wheel.....	C. A. Brostrom.....	358,254	Feb. 22	2185	576	38	851
Cultivator. Tongueless wheel.....	E. P. Lynch.....	358,362	Feb. 22	2333	619	38	879
Cultivator-tooth.....	W. M. Darrow.....	369,167	Aug. 30	2621	695	40	987
Cultivator-tooth.....	M. A. Eisenhour.....	369,508	Sept. 6	264	74	40	1084
Cultivator-tooth.....	P. C. Minnich.....	367,112	July 26	1862	503	40	376
Cultivator-tooth.....	H. C. Pratt.....	374,130	Nov. 29	2763	743	41	1026
Cultivator. Vineyard.....	H. B. Reed.....	373,906	Nov. 29	2449	657	41	964
Cultivator. Walking.....	J. H. Jones.....	374,538	Dec. 6	532	139	41	1149
Cultivator. Wheel.....	B. F. Berger and I. Sousley.....	369,497	Sept. 6	247	70	40	1081
Cultivator. Wheel.....	W. P. Brown.....	372,399	Nov. 1	170	48	41	502
Cultivator. Wheel.....	A. T. Campbell.....	356,922	Feb. 1	248	68, 69	38	467
Cultivator. Wheel.....	C. R. Davis.....	369,696	Sept. 13	531	147	40	1145
Cultivator. Wheel.....	A. Lindgren.....	358,210	Feb. 22	2132	{ 562 563 }	38	841

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cultivator. Wheel.....	J. McGee. (Reissue).....	10,828	Apr. 19	1828	473	39	358
Cultivator. Wheel.....	P. Scharbach.....	363,686	May 24	2302	598	39	931
Cultivator. Wheel.....	C. C. Stover.....	356,560	Jan. 25	1812	474	38	368
Cultivator. Wheel.....	G. W. and S. Taylor.....	355,953	Jan. 11	948	248	38	192
Cultivator. Wheel.....	S. A. D. Thomas.....	355,899	Jan. 11	862	225	38	174
Cultivator. Wheeled.....	W. P. Brown.....	356,613	Jan. 25	1890	496 497	38	383
Cultivators. Attachment for wheel.....	W. R. Brown.....	363,278	May 17	1705	446	39	809
Cultivators. Automatic foot for tongueless.....	R. J. Shawhan.....	358,414	Feb. 22	2404	639	38	893
Cultivators. Beam-coupling for.....	G. Moore.....	357,727	Feb. 15	1446	378 379	38	708
Cultivators. Harrow attachment for.....	O. L. Neisler.....	371,619	Oct. 18	1247	324	41	261
Cultivators. Rotary-harrow attachment for wheeled.....	T. Meyer.....	370,803	Oct. 4	72	18	41	16
Cultivators, seed-drills, &c. Spring-hoe attachment for.....	C. R. Hartman.....	367,623	Aug. 2	387	109	40	525
Cup:							
See Dope-cup. Pen-cleaner sponge-cup.							
Grease-cup. Sponge-cup.							
Oil-cup. Umbrella drip-cup.							
Cupboard-catch.....	I. C. Williams.....	362,805	May 10	1052	286	39	676
Curb. Street or other.....	E. L. Brown.....	355,810	Jan. 11	714	187	38	148
Curd-mill.....	J. P. Roberge.....	369,555	Sept. 6	331	91	40	1097
Curling-iron.....	R. P. Dunn.....	361,682	Apr. 26	1857	481	39	371
Current generators. Method of and apparatus for connecting alternate-	O. B. Shallenberger.....	372,934	Nov. 8	977	265	41	659
Current-motor.....	H. Kessler.....	365,133	June 21	1358	359 360	39	1356
Curry-comb.....	W. R. Adams.....	375,114	Dec. 20	1380	358	41	1329
Curry-comb.....	C. R. Crosby.....	370,047	Sept. 20	1064	281	40	1250
Curry-comb.....	R. Grove.....	364,103	May 31	2891	750	39	1050
Curry-comb.....	O. Jenness.....	360,301	Mar. 29	2847	725	38	1464
Curry-comb.....	C. and J. Knopp.....	360,702	Apr. 5	440	112	39	82
Curry-comb.....	H. McPherson and M. Sweet.....	356,543	Jan. 25	1781	464	38	362
Curry-comb.....	S. Norwood.....	366,019	July 5	376	101	40	70
Curry-comb.....	W. G. Schaefer.....	368,690	Aug. 23	1951	517	40	849
Curry-comb.....	M. Sweet.....	370,748	Sept. 27	2097	556	40	1450
Curry-comb.....	L. W. Turner.....	358,510	Mar. 1	129	32	38	927
Curry-comb.....	C. J. Waldron.....	365,885	July 5	179	46	40	36
Curtain exhibitor. Revolving window-	W. P. Yeoman.....	356,219	Jan. 18	1322	349	38	268
Curtain-fastener.....	W. H. Votaw.....	370,028	Sept. 13	1031	271	40	1236
Curtain-fixture.....	C. Bell.....	362,706	May 10	909	248	39	650
Curtain-fixture.....	T. M. Brintnall.....	358,377	Feb. 22	2352	625	38	883
Curtain-fixture.....	E. C. Byam.....	361,206	Apr. 12	1185	300	39	224
Curtain-fixture.....	W. C. Kantner.....	357,714	Feb. 15	1421	373	38	704
Curtain-fixture.....	T. McGuire.....	373,674	Nov. 22	2113	565	41	894
Curtain-fixture.....	O. F. Mitchell.....	356,369	Jan. 18	1535	403	38	308
Curtain-fixture.....	J. and W. J. Rathgeber.....	364,670	June 14	644	173	39	1217
Curtain-fixture.....	J. Shinn and O. M. Fagley.....	359,896	Mar. 22	2200	554	38	1337
Curtain-fixture.....	L. K. Strang.....	364,608	June 7	564	152	39	1194
Curtain-fixture.....	R. P. Trimble.....	375,585	Dec. 27	2016	524	41	1462
Curtain-fixture.....	S. H. Weltner.....	369,380	Sept. 6	101	31	40	1052
Curtain-hanger.....	J. W. Dorrington.....	364,497	June 7	413	112	39	1166
Curtain-holder.....	R. S. Gould.....	361,007	Apr. 12	888	224	39	168
Curtain-pole.....	A. F. Pfeifer.....	367,545	Aug. 2	275	77	40	504
Curtain-pole.....	E. Roos.....	362,316	May 3	342	94	39	540
Curtain-pole.....	O. A. Strobel.....	370,289	Sept. 20	1404	377	40	1314
Curtain pole and fixture.....	F. C. Schastey.....	365,203	June 21	1447	382	39	1374
Curtain-pole angle-joint.....	R. S. Gould.....	366,771	July 19	1408	377	40	283
Curtain-pole bracket.....	R. Brass.....	374,340	Dec. 6	246	65	41	1093
Curtain-pole bracket.....	F. J. Strubing.....	361,242	Apr. 12	1235	315	39	235
Curtain-pole ring.....	R. S. Gould.....	355,521	Jan. 4	294	79	38	59
Curtain-pole ring.....	W. P. Hill.....	361,873	Apr. 26	2136	554	39	421
Curtain-pole ring.....	T. Morris.....	372,813	Nov. 8	810	217	41	629
Curtain-pole socket.....	R. S. Gould.....	363,954	May 31	2694	698	39	1010
Curtain-poles. Ornamenting.....	T. J. P. F. Lindberg.....	361,827	Apr. 26	2058	535	39	407
Curtain-pull.....	D. H. Tinkham.....	368,312	Aug. 16	1418	375	40	737
Curtain-rack.....	W. Meyer.....	356,288	Jan. 18	1419	375	38	287
Curtain-ring.....	E. Compton.....	364,752	June 14	772	205	39	1241
Curtain-ring.....	M. Nixon.....	375,563	Dec. 27	1980	515	41	1455
Curtain-ring.....	A. Wood.....	364,197	May 31	3032	788	39	1076
Curtain ring or hanger.....	J. W. Leslie.....	365,691	June 28	2185	571	39	1526
Curtain ring or hanger.....	J. W. Leslie.....	365,692	June 28	2186	571	39	1526
Curtain ring or hanger.....	J. W. Leslie.....	372,628	Nov. 1	510	139	41	567
Curtain-rod bracket.....	C. J. Beckman.....	356,741	Feb. 1	3	1	38	423
Curtain. Roller.....	G. H. Jones and L. P. Holt.....	366,112	July 5	488	132	40	92
Curtain-shade fixture.....	R. P. Trimble.....	368,740	Aug. 23	2028	537	40	863
Cushion:							
See Billiard-table cush- Spring-cushion.							
ion.							
Cuspidor.....	J. J. Brennan.....	363,982	May 31	2734	708	39	1018
Cuspidor-holder.....	J. Nassauer.....	358,688	Mar. 1	401	96	38	978
Cuspidors. Manufacturing.....	A. L. Hollander.....	361,221	Apr. 12	1211	308	39	230
Cut-off. Adjustable.....	W. F. Parish.....	363,255	May 17	1674	439	39	803
Cut-off and filter combined. Rain-water.....	N. W. Davis.....	375,270	Dec. 20	1585	416	41	1370
Cut-off and spout.....	W. Exner.....	362,917	May 10	1206	323	39	705
Cut-off and strainer. Rain-water.....	F. A. Miller.....	371,697	Oct. 18	1367	354	41	285
Cut-off and strainer. Rain-water.....	E. Rowe.....	358,820	Mar. 1	586	145	38	1012
Cut-off. Automatic.....	A. F. Pickert.....	363,965	May 31	2708	702	39	1013
Cut-off. Automatic.....	E. Thomson.....	360,124	Mar. 29	2590	656	38	1415
Cut-off. Electro-magnetic.....	E. Thomson.....	360,123	Mar. 29	2587	656	38	1415
Cut-off for steam-engines.....	E. Querol y Delgado.....	356,958	Feb. 1	298	82, 83	38	477
Cut-off for water-pipes.....	W. G. Browne.....	360,139	Mar. 29	2610	662	38	1419
Cut-off for water-pipes. Automatic.....	W. G. Browne.....	360,085	Mar. 29	2512	639	38	1402
Cut-off for water-supply pipes.....	J. A. Adams.....	374,162	Dec. 6	1	1	41	1047

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cut-off mechanism. Automatic slide-valve	M. Wilkes	358,318	Feb. 22	2274	600	38	868
Cut-off. Rain-water	W. A. Buckton	362,488	May 10	591	166	39	593
Cut-off valve	J. A. Horton	355,993	Jan. 11	999	263	38	203
Cut-off valve	J. A. Horton	375,067	Dec. 20	1310	342	41	1316
Cut-off valve	O. Noll	375,090	Dec. 20	1345	351	41	1323
Cut-off valve	B. Topmiller	355,627	Jan. 4	431	119	38	85
Cut-off valve	B. Topmiller	355,628	Jan. 4	434	120	38	86
Cut-off valve. Automatic	W. G. Browne	360,140	Mar. 29	2612	662	38	1419
Cut-off valve for fluid-supply pipes	F. Moore	361,884	Apr. 26	2153	558	39	424
Cut-off valve. Rocking	L. Mathias and H. Mendenhall	369,802	Sept. 13	667	181	40	1170
Cut-out block	E. McEvoy	364,721	June 14	723	193	39	1233
Cutlery handles. Manufacture of	I. E. Moody	359,883	Mar. 22	2178	549	38	1333
Cutlery. Machinery for grinding	R. Kampfe	364,353	June 7	199	55	39	1126
Cutlery, &c. Manufacture of	H. A. Brognard	368,060	Aug. 9	1050	281	40	659
Cutlery. Manufacture of table	L. F. Dunn	361,620	Apr. 19	1755	454	39	343
Cutlery or similar articles. Manufacture of	H. A. Brognard	368,061	Aug. 9	1051	281	40	659
Cutlery show-case	H. Dechent	362,207	May 3	206	61	39	513
Cutter:							
See Band-cutter. Hog-tendon cutter.							
Bolt-cutter. Lawn-cutter.							
Box-blank cutter. Leather-cutter.							
Bran-cutter. Meat-cutter.							
Button-hole cutter. Mowing-machine cutter.							
Chisel-cutter. Paper-cutter.							
Cigar-cutter. Pipe-cutter.							
Cigar-tip cutter. Rod-cutter.							
Circle and gasket cutter. Rod and bolt cutter.							
Corn-cutter. Rotary cutter.							
Corn and cane cutter. Sheet-metal cutter.							
Cornstalk-cutter. Sheet-metal-scroll cutter.							
Feed-cutter. Stalk-cutter.							
Fodder-cutter. Straw-cutter.							
Fruit, vegetable, and bread cutter. Stubble-cutter.							
Fuse-cutter. Thread-cutter.							
Gear-cutter. Thong-cutter.							
Glass-tube cutter. Tobacco-cutter.							
Harvester-cutter. Tube-cutter.							
Hay and straw cutter. Twine-cutter.							
Heel-trimming-machine cutter. Vegetable-cutter.							
Wire-cutter. Washer-cutter.							
Cutter-bar	W. B. Comstock	367,190	July 26	1967	532	40	396
Cutter-bar	J. H. Daniel	362,822	May 10	1070	291	39	679
Cutter-bar. Double	W. T. Wardall	375,237	Dec. 20	1541	404	41	1362
Cutter-head	F. Gleason	369,785	Sept. 13	643	174	40	1165
Cutter-head	J. C. Humphreys	370,542	Sept. 27	1786	476	40	1392
Cutter-head	J. B. Mahaffey	363,753	May 24	2395	621	39	949
Cutter-head	C. W. Titus	371,529	Oct. 11	1117	291	41	227
Cutters. Making right and left rotary	C. H. Trask	372,049	Oct. 25	1895	4-9	41	396
Cutters. Making rotary	C. H. Trask	372,050	Oct. 25	1897	489	41	396
Cutting and beveling flexible and elastic materials. Apparatus for	J. Parker and M. L. Gunning	358,067	Feb. 22	1925	508	38	803
Cutting and beveling flexible material. Machine for	J. Parker and M. L. Gunning	357,024	Feb. 1	391	105	38	494
Cutting and burnishing tool	J. P. Lewis	369,252	Aug. 30	2724	725	40	1008
Cutting and canceling device	E. Kretz	355,325	Jan. 4	47	13	38	10
Cutting and delivering apparatus	W. R. Bacon	370,672	Sept. 27	1979	524	40	1428
Cutting and fitting garments	M. V. Coleman	357,762	Feb. 15	1506	393	38	719
Cutting and marking. Convertible implement for	F. E. Buddington	370,005	Sept. 13	999	262	40	1230
Cutting double pile fabrics. Machine for	J. A. Campbell	358,014	Feb. 22	1842	487	38	788
Cutting double pile fabrics. Mechanism for	A. Bacon	359,048	Mar. 8	920	234	38	1078
Cutting flexible material. Apparatus for	F. A. Fowler	360,149	Mar. 29	2627	664	38	1422
Cutting irregular-shaped openings. Machine for	J. W. Latcher	368,723	Aug. 23	2007	531	40	858
Cutting rags, &c. Machine for	A. A. Coburn	359,846	Mar. 22	2122	534	38	1323
Cutting rags or other materials. Machine for	J. H. Turvey	368,435	Aug. 16	1589	424	40	771
Cutting-tool gage	L. Blair	369,908	Sept. 13	836	221	40	1202
Cyclometer	O. B. Beach	360,269	Mar. 29	2804	713	38	1456
Cyclometer	O. B. Beach	366,447	July 12	934	255	40	186
Cyclometer	J. Butcher	356,822	Feb. 1	108	30	38	443
Cyclometer	J. Butcher	357,758	Feb. 15	1498	391	38	718
Cyclometer	M. H. Downes	363,218	May 17	1629	428	39	793
Cyclometer	M. H. Downes	363,993	May 31	2746	712	39	1021
Cyclometer	W. R. Dutemple	362,883	May 10	1153	309	39	695
Cyclometer	J. G. Pool	362,853	May 10	1112	301	39	687
Cyclometer	C. E. W. Woodward	374,919	Dec. 13	1084	283	41	1267
Cyclometers. Mechanical movement for	M. H. Downes	363,735	May 24	2368	615	39	944
Cyclone-destroyer	J. B. Atwater	370,845	Oct. 4	141	38	41	28
Cylinder-lock	T. Donahue	375,540	Dec. 27	1943	508	41	1449
Cylinder-lock	W. E. Sparks	367,677	Aug. 2	485	134	40	542
Cylinders. Manufacture of toothed	H. L. Moulton and W. H. Clarkson	368,418	Aug. 16	1559	416	40	765
Dam	D. A. Hoyt	361,290	Apr. 19	1299	333	39	258
Dam and reservoir construction	H. W. R. Strong	374,378	Dec. 6	296	78	41	1103
Dam. Automatic	H. Harding	367,038	July 26	1752	472	40	355
Dampeners for press copying-books, labels, &c. Construction of reservoir	L. B. Bertram	358,327	Feb. 22	2285	603	38	871
Damper	F. R. Smith	356,169	Jan. 18	1258	332	38	256
Damper	J. W. Yates	365,219	June 21	1467	387	39	1378
Damper and blower for open grates	A. Orelup	370,279	Sept. 20	1385	372	40	1311

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Damper for furnace and other regulators	C. L. Ridgway	367,847	Aug. 9	747	201	40	602
Damper for stove-pipes	W. H. Berger	366,809	July 19	1454	389	40	291
Damper for stove-pipes, chimneys, &c.	C. E. Sohn	358,172	Feb. 22	2078	547	38	830
Damper. Furnace	W. H. H. Barton	364,888	June 14	986	259	39	1280
Damper-handle	S. Abbott	369,309	Sept. 6	1	1	40	1035
Damper mechanism. Automatic	E. C. Mason	357,722	Feb. 15	1432	376	38	706
Damper-regulator	P. H. Fowler and W. H. Chadwick ..	363,459	May 24	1955	512	39	864
Damper-regulator	F. Leclère	370,267	Sept. 20	1373	369	40	1308
Damper-regulator	F. Leclère	373,834	Nov. 29	2345	630	41	945
Damper-regulator. Automatic electric	E. N. Dickerson, Jr.	361,270	Apr. 19	1272	326	39	253
Damper-regulator for furnaces, stoves, &c. Auto- matic	C. L. Ridgway	363,346	May 17	1798	{ 471 } 472	{ 39 } 39	826
Damper. Stove	A. M. Blakesley and D. G. White ..	358,330	Feb. 22	2289	604	38	871
Damper. Stove	R. M. Hermance	371,456	Oct. 11	1018	265	41	207
Damper. Stove-pipe	E. E. Lederle	361,301	Apr. 19	1318	338	39	261
Damper. Stove-pipe	W. G. Mank	371,776	Oct. 18	1477	382	41	309
Damper. Stove-pipe	B. C. Oblinger	368,485	Aug. 16	1663	444	40	785
Damper. Stove-pipe	G. W. Warner	364,322	June 7	156	43	39	1118
Dampers and valves. Electro-magnetic regulator for	G. M. Sternberg	355,893	Jan. 11	850	223	38	172
Dampers and valves. Electro-magnetic regulator for	G. M. Sternberg	355,894	Jan. 11	853	223	38	172
Damping-machine	F. L. and S. G. Goss	363,326	May 17	1770	464	39	820
Dash-board	J. F. Gross	371,262	Oct. 11	750	192	41	155
Dead-centers. Device for obviating	G. Moss	355,705	Jan. 11	563	147	38	120
Dead-centers. Device for overcoming	S. T. Shortess	356,558	Jan. 25	1810	474	38	368
Dead-centers. Device for overcoming	S. T. Shortess	366,433	July 12	919	249	40	182
Dead-centers. Means for overcoming	F. R. Hamilton	364,409	June 7	283	78	39	1142
Decantation apparatus for effecting the automatic separation of solid matter held in suspension in liquids	P. Gaillet	372,216	Oct. 25	2146	551	41	443
Decorticating-machine	B. Thoens	361,381	Apr. 19	1425	368	39	281
Decorticating-machine	J. B. Vogel	359,192	Mar. 8	1104	287	38	1114
Decorticating-machine	J. B. Vogel	373,161	Nov. 15	1332	354	41	734
Decoy	J. H. Brinkop	364,573	June 7	522	141	39	1186
Decoy. Hunting	W. Ryan	368,427	Aug. 16	1575	{ 420 } 421	{ 40 } 40	769
Defecator for cane-juice	L. F. Hauptman	366,830	July 19	1484	396	40	296
Delivering prepaid articles. Automatic apparatus for	F. M. Leavitt	359,213	Mar. 8	1134	295	38	1119
Delivery-mouth. Controllable	B. K. Dorwart	372,899	Nov. 8	932	252	41	651
Demijohn, &c	F. A. and D. Bahr	372,951	Nov. 8	1006	271	41	664
Dental anodyne or local anæsthetic	R. H. Peak	357,784	Feb. 15	1536	.....	38	724
Dental apparatus	M. H. Knapp	369,114	Aug. 30	2558	680	40	973
Dental apparatus	H. W. Parsons	362,310	May 3	334	92	39	539
Dental articulator	S. Arnold	370,445	Sept. 27	1638	437	40	1365
Dental bracket	C. B. Porter	365,859	July 5	143	38	40	29
Dental bracket. Suspension	L. M. Mathews	364,531	June 7	473	127	39	1176
Dental burring-tool	A. W. Browne	372,400	Nov. 1	171	48	41	502
Dental burrs. Machine for cutting	L. Maillard	364,832	June 14	904	{ 239 } 240	{ 39 } 39	1264
Dental cabinet for laboratories	F. Gaudin	370,467	Sept. 27	1675	446	40	1373
Dental chair	H. H. Keith	367,300	July 26	2144	577	40	428
Dental chair	E. P. Stiles	361,906	Apr. 26	2178	565	39	429
Dental chairs. Lowering mechanism for	L. Stuck	365,322	June 21	1624	424	39	1406
Dental disk-carrier	H. C. Register	362,783	May 10	1031	280	39	671
Dental engine	W. G. A. Bonwill	372,397	Nov. 1	167	47, 48	41	501
Dental engine	A. W. Browne	368,187	Aug. 16	1229	329	40	701
Dental engine	W. W. Grant	363,291	May 17	1721	451	39	811
Dental engine	A. Jamieson	366,484	July 12	982	267	40	195
Dental engine	W. A. Knowles	372,317	Nov. 1	49	15	41	481
Dental engine	W. A. Knowles	373,141	Nov. 15	1296	344	41	728
Dental engine	W. B. Mann	373,079	Nov. 15	1206	321	41	711
Dental engine	H. C. Register	365,098	June 21	1304	345	39	1347
Dental engine	A. Weber	356,809	Feb. 1	93	26	38	440
Dental engine	A. Weber	374,221	Dec. 6	71	19	41	1061
Dental-engine bracket	W. A. Knowles	368,154	Aug. 9	1177	314	40	683
Dental-engine brush	L. W. Ballard	361,806	Apr. 26	2031	527	39	401
Dental engine. Electrical	G. W. Whitefield	374,225	Dec. 6	76	20	41	1062
Dental-engine hand-piece	F. H. Bell and E. J. Marsh ..	374,286	Dec. 6	157	41	41	1077
Dental-engine hand-piece	W. B. Mann	359,798	Mar. 22	2035	516	38	1308
Dental file carrier. Veterinary	I. B. Phillips	365,485	June 28	1871	486	39	1466
Dental flask	W. S. Curtis	374,585	Dec. 13	603	157	41	1172
Dental flask	A. T. Hawley	365,811	July 5	72	21	40	15
Dental flasks. Fastening for	F. G. Hughes	367,401	Aug. 2	64	17	40	463
Dental flasks, &c. Press for	M. M. Maine	363,152	May 17	1537	406	39	775
Dental foil	R. S. Williams	375,241	Dec. 20	1545	405	41	1363
Dental grinding-disk and holder	J. A. Kimball	367,211	July 26	1993	540	40	401
Dental illuminating apparatus	T. G. Lewis	370,547	Sept. 27	1791	477	40	1393
Dental instrument	J. R. and J. W. Kelly and S. A. Stien- barger	367,108	July 26	1858	502	40	375
Dental lathe	R. S. Redman	371,706	Oct. 18	1383	357	41	289
Dental mallet	H. C. Register	363,911	May 31	2611	678	39	995
Dental mallet and plugger. Electro-magnetic	P. Helmer	368,948	Aug. 30	2323	618	40	928
Dental mandrel and disk	D. W. Clark	368,457	Aug. 16	1628	435	40	778
Dental matrix	T. B. Fletcher	369,701	Sept. 13	538	148	40	1146
Dental matrix	W. A. Woodward	368,042	Aug. 9	1023	276	40	654
Dental plate	R. M. Chase	371,174	Oct. 11	628	161	41	132
Dental plate	A. Robinson	368,492	Aug. 16	1678	447	40	787
Dental pliers	J. J. R. Patrick	373,682	Nov. 22	2127	569	41	897
Dental plugger	F. Abbott	368,179	Aug. 16	1219	327	40	699
Dental plugger	W. H. Baldwin	356,221	Jan. 18	1324	350	38	268
Dental plugger	N. Clark	368,458	Aug. 16	1628	435	40	778
Dental plugger	J. H. Edmonds	360,864	Apr. 12	666	175	39	131
Dental plugger	A. C. Greenlee	363,630	May 24	2221	575	39	916
Dental plugger	W. Loewenthal	361,768	Apr. 26	1968	514	39	390

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Dental plugger. Pneumatic	W. S. Sherman and W. K. Moore...	367,072	July 26	1803	487	40	365
Dental plugs. Device for forming	J. E. Low	358,282	Feb. 22	2229	588	38	860
Dental polisher	J. B. Wood	362,808	May 10	1054	287	39	677
Dental regulating device	T. S. Holmes	360,695	Apr. 5	430	110	39	80
Dental speculum, reflector, and cheek-compressor. Combined	D. Genese	364,505	June 7	421	114	39	1168
Dental syringe	W. H. Richards	375,427	Dec. 27	1793	469	41	1419
Dental vulcanizing apparatus	F. H. Chidester and S. J. Harmount.	359,773	Mar. 22	2003	{ 506 507 }	{ 38 38 }	1301
Dental-waste receptacle	T. F. Spencer	357,421	Feb. 8	973	256	38	611
Dentistry	C. McLean	363,904	May 31	2603	.....	39	994
Depurator	E. J. Harding	368,285	Aug. 16	1388	366	40	730
Depurator	W. E. Smith	375,015	Dec. 20	1235	322	41	1302
Derrick	J. B. Wallace	363,101	May 17	1470	389	39	762
Derrick. Windmill	T. O. Perry	375,378	Dec. 27	1731	454	41	1407
Derricks and cranes. Attachment for	J. Q. Dickinson	375,610	Dec. 27	2052	532	41	1467
Desiccating-roll	W. R. Hinsdale	363,827	May 31	2500	649	39	975
Desk	C. Emmel	372,135	Oct. 25	2032	521	41	420
Desk	W. K. Haynes	365,005	June 14	1157	303	39	1311
Desk	J. B. Pooley	360,473	Apr. 5	106	27	39	21
Desk	T. C. Read	373,753	Nov. 22	2221	595	41	914
Desk	R. W. Sackett	358,887	Mar. 8	707	174	38	1039
Desk	L. Smith	359,474	Mar. 15	1515	{ 387 388 }	{ 38 38 }	1198
Desk	W. F. Spurgin	358,229	Feb. 22	2154	568	38	845
Desk	A. S. Webb	371,012	Oct. 4	410	{ 102 103 }	{ 41 41 }	82
Desk and blackboard. Folding	C. and G. Merkel	365,698	June 28	2194	573	39	1527
Desk and chair. School	G. A. Bobrick	370,923	Oct. 4	278	68	41	55
Desk and seat. Combined school-	J. M. Gough, J. Speakman, and N. F. Canaday.	367,037	July 26	1750	472	40	355
Desk and seat. School	T. E. Hampton	364,247	June 7	65	19	39	1101
Desk and seat. School	A. Moore	370,554	Sept. 27	1805	480	40	1395
Desk and table combined. Writing	C. Sonne	364,684	June 14	665	{ 177 178 }	{ 39 39 }	1222
Desk and type-writer cabinet. Combined	W. H. Porter	365,275	June 21	1558	406	39	1394
Desk attachment	F. H. Cutler	367,789	Aug. 9	669	181	40	585
Desk. Portable	J. M. Shinn	362,589	May 10	735	204	39	617
Desk. School	J. M. Abbott	364,460	June 7	364	100	39	1157
Desk. School	C. E. Dressler	364,094	May 31	2876	746	39	1047
Desk. School	M. B. Garber and J. W. McElvain..	367,512	Aug. 2	234	67	40	496
Desk. School	J. Peard. (Reissue)	10,825	Apr. 12	1247	318	39	238
Desk. Wall	M. A. Miller	357,533	Feb. 8	1142	299	38	643
Desk. Writing	F. A. Coffin	356,449	Jan. 25	1654	433	38	338
Desks. Ink-well for school	F. H. Roberts and A. C. Luyckx ..	372,388	Nov. 1	157	45	41	499
Desks. Ink-well for school	M. S. Smith	359,331	Mar. 15	1299	337	38	1157
Desks. Pencil-drawer for school	S. A. Perry	356,327	Jan. 18	1477	389	38	297
Detector: See Ore-detector.							
Dial-figuring machine	A. T. Westlake	366,987	July 19	1686	{ 453 454 }	{ 40 40 }	335
Dial-repairing tool	C. Teske	360,253	Mar. 29	2777	705	38	1451
Dial. Time-piece	E. A. Lewis	374,605	Dec. 13	630	165	41	1178
Diaper	M. E. Allen	355,368	Jan. 4	102	28	38	21
Diaphragm-motor	C. W. Boluss	360,651	Apr. 5	368	93	39	70
Die: See Button-die. Screw-cutting die. Heel-die.							
Die for shaping arch-bars	M. Kennedy	360,099	Mar. 29	2540	647	38	1407
Die-press	C. L. Hart	372,262	Oct. 25	2216	567	41	456
Die-press	E. Jordan	361,633	Apr. 19	1778	460	39	349
Die press. Gang	J. G. Hodgson	361,286	Apr. 19	1292	331	39	257
Die-stock	W. D. Forbes	363,626	May 24	2216	574	39	915
Die-stock	H. E. Galloway	372,664	Nov. 8	563	154	41	586
Dies. Manufacture of	G. F. Champney	368,873	Aug. 23	2205	.....	40	898
Dielectric composition	C. T. Crowell	361,347	Apr. 19	1375	.....	39	271
Diethylmethylthionin-blue. Production of	E. Ullrich	366,640	July 12	1223	.....	40	241
Diffraction-camera	J. Vansant	357,746	Feb. 15	1478	388	38	714
Diffusing apparatus	M. L. E. Duval	369,844	Sept. 13	738	197	40	1183
Diffusing apparatus. Mechanical device for shutting the doors of	M. L. E. Duval	369,845	Sept. 13	739	197	40	1183
Digesters. Door for	T. F. Rowland	357,101	Feb. 1	505	134	38	516
Digger: See Mechanical digger. Road-digger. Post-hole digger. Stubble-digger. Potato-digger. Tree-digger.							
Dimethyldiethylthionin-blue. Production of	E. Ullrich	366,639	July 12	1222	.....	40	241
Dining-table, dressing-case, work-stand, &c. Combined	G. Siebert	358,486	Mar. 1	93	23	38	921
Dip-pipe and sealing-cup. Anti-sealing	E. Lindsley	358,047	Feb. 22	1892	{ 500 501 }	{ 38 38 }	797
Direct-acting engine	J. Pracy	362,855	May 10	1116	301	39	688
Direct-acting engine	H. C. Sergeant	355,348	Jan. 4	80	21	38	17
Discount-measuring glass and bank-note examiner. Combined	A. C. McMicken	373,597	Nov. 22	2007	532	41	871
Dish. Covered	W. E. Hawkins	364,016	May 31	2778	719	39	1028
Dish. Covered	W. E. Hawkins	365,596	June 28	2050	535	39	1502
Dish-drainer	C. C. Cannom	363,045	May 17	1396	369	39	748
Dish for table use	J. M. Sanders and W. A. Stamats ..	371,631	Oct. 18	1261	328	41	264
Dish machine. Butter	C. Crook	361,138	Apr. 12	1075	{ 271 272 }	{ 39 39 }	204
Dish-washing machine	C. Burdick and C. R. Brown	367,361	Aug. 2	13	3	40	453
Dish-washing machine	P. E. Cox	372,123	Oct. 25	2008	515	41	417

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Dish-washing machine	D. B. Peck	361,320	Apr. 19	1339	{ 344 345	{ 39	266
Dishes and other articles of table use. Rinsing and drying device for	M. Purvis	364,602	June 7	559	150	39	1193
Dishes. Machine for washing	J. S. Stevens	361,729	Apr. 26	1917	497	39	381
Dishes. Manufacturing butter	C. Crook	375,264	Dec. 20	1575	413	41	1369
Disinfectant	C. T. Kingzett	371,074	Oct. 4	487	.....	41	96
Disinfectant	B. Laclaverie	361,636	Apr. 19	1781	.....	39	350
Disinfectant	C. H. Moore	370,277	Sept. 20	1383	.....	40	1310
Disinfectant mixture	E. G. Xander	357,259	Feb. 8	757	.....	38	570
Disinfecting. Process of and apparatus for	D. T. Lawson	360,893	Apr. 12	708	{ 187 188	{ 39	138
Disinfecting sewage. Apparatus for	J. J. Powers	362,657	May 10	844	231	39	637
Display-frame	W. A. Aiken	374,724	Dec. 13	793	208	41	1210
Display-frame	W. A. Aiken and C. W. Huntington	368,367	Aug. 16	1489	396	40	752
Display-frame	S. Dancyger	363,369	May 24	1827	480	39	840
Display-frame	E. A. Tracy	369,973	Sept. 13	947	250	40	1220
Display-horse	D. Emerick and C. A. Smith	365,979	July 5	317	83	40	60
Display-rack	M. Umstadter	355,733	Jan. 11	606	158	38	129
Display-stand	A. Eske	373,729	Nov. 22	2191	586	41	909
Displaying public announcements. Apparatus for	L. Tampier	373,951	Nov. 29	2508	{ 673 674 675	{ 41	976
Distance-indicator for cabs, &c	G. B. Smith	357,420	Feb. 8	970	{ 255 256	{ 38	611
Distance-instrument	J. M. Bowyer	364,630	June 14	598	160	39	1208
Distance-instrument	R. R. Gurley	359,073	Mar. 8	950	242	38	1085
Distance-instrument	K. Schneider	367,067	July 26	1793	483	40	364
Distilling alcohol and other volatile substances. Apparatus for	G. Jordan	358,615	Mar. 1	297	71	38	958
Distilling ammonia and producing refrigeration	W. C. Wren	364,198	May 31	3032	788	39	1076
Distilling ammonia. Apparatus for	H. Grüneberg and E. Blum	358,196	Feb. 22	2116	{ 558 559	{ 38	838
Distilling apparatus	D. P. Brown and J. W. Neeley	361,671	Apr. 26	1842	477	39	369
Distilling apparatus	E. Kells	374,838	Dec. 13	957	{ 249 250	{ 41	1242
Distilling apparatus. Wood-	E. Koch	367,413	Aug. 2	79	21, 22	40	466
Distilling apparatus. Wood-	A. F. Schmitt	367,669	Aug. 2	473	{ 130 131	{ 40	540
Distilling petroleum	L. Stevens	363,432	May 24	1919	504	39	857
Distilling petroleum. Process of and apparatus for	J. M. Krieser	366,487	July 12	987	268	40	196
Distilling water. Method of and apparatus for	A. M. Coyle	364,199	May 31	3035	789	39	1076
Distilling wood	A. Smith	374,636	Dec. 13	673	{ 176 177 178	{ 41	1187
Distilling wood. Apparatus for	E. J. Burrell	363,313	May 17	1750	458	39	817
Distilling wood. Apparatus for	G. Hunziker	375,490	Dec. 27	1876	{ 490 491	{ 41	1435
Ditcher. Tile-	H. I. Potter	363,540	May 24	2087	{ 540 541	{ 39	890
Ditching and excavating machine	H. Carter	365,580	June 28	2026	528	39	1497
Ditching and tile-laying machine	O. C. Carr	375,602	Dec. 27	2040	529	41	1465
Ditching and tile-laying machine. Steam	D. Wilde	359,701	Mar. 22	1885	{ 478 479	{ 38	1282
Ditching-machine	J. W. Ballard and H. L. Fisher	370,518	Sept. 27	1751	{ 466 467	{ 40	1385
Ditching-machine	J. W. and M. F. Brinkley	361,670	Apr. 26	1841	477	39	368
Ditching-machine	A. Burcham	358,538	Mar. 1	187	44	38	937
Ditching-machine	L. A. Desy	360,282	Mar. 29	2824	{ 717 718 719	{ 38	1460
Ditching-machine	W. T. Finnell	360,870	Apr. 12	677	177	39	133
Ditching-machine	R. H. Kersey	369,948	Sept. 13	902	240	40	1213
Ditching-machine	C. Michelsen	374,690	Dec. 13	740	194	41	1201
Ditching-machine	A. Price	366,185	July 5	591	{ 158 159	{ 40	111
Ditching-machine	E. E. Renshaw	373,484	Nov. 22	1829	487	41	839
Ditching-machine	A. Stewart	363,560	May 24	2116	549	39	896
Ditching-machine	C. V. Touhy	375,025	Dec. 20	1251	327	41	1305
Ditching-machine	J. A. Wells	359,911	Mar. 22	2219	558	38	1341
Ditching-machine	T. Willsea	358,179	Feb. 22	2094	553	38	833
Ditching-machine. Open and tile	T. Danskin	361,348	Apr. 19	1375	354	39	271
Ditching-machines. Means for operating	T. E. Rowan	371,520	Oct. 11	1106	288	41	225
Ditching or car-loading machine	R. A. Shailer and F. W. Kimball	367,554	Aug. 2	290	81, 82	40	506
Divider	G. Grimble	368,086	Aug. 9	1086	289	40	666
Dividers or calipers	J. D. Wilkinson	364,561	June 7	508	137	39	1184
Diving apparatus	J. Bruce	361,925	Apr. 26	2202	572	39	434
Doctor. Automatic	R. Smith	365,492	June 28	1881	490	39	1468
Document-case or record-cabinet, &c	J. C. Lang	359,451	Mar. 15	1479	378	38	1191
Doll	R. E. Johnson	366,730	July 19	1354	363	40	273
Doll or puppet heads. Manufacture of infrangible	J. Schön	361,453	Apr. 19	1520	.....	39	299
Dolls. Method of and means for stuffing	W. Flechter	371,751	Oct. 18	1441	373	41	302
Domestic boiler	J. Reilly	363,542	May 24	2090	541	39	891
Domestic boiler and heating-drum. Combined	J. W. Barton	356,345	Jan. 18	1505	395	38	303
Domestic press	J. S. Bird	365,292	June 21	1582	411	39	1398
Door	M. B. Burk	361,810	Apr. 26	2034	528	39	402
Door	H. H. Greenman	372,066	Oct. 25	1916	494	41	400
Door. Adjustable screen-	W. Hughes	374,187	Dec. 6	34	9	41	1053
Door-alarm	W. C. Dufen and O. J. Fuchs	366,655	July 19	1247	333	40	253
Door and jamb	J. T. Fanning	358,027	Feb. 22	1855	491	38	790
Door attachment	W. W. Allen	370,300	Sept. 20	1415	381	40	1317
Door-catch and door-opening device. Combined	C. H. Miller	363,666	May 24	2266	588	39	925
Door, cell, and window. Prison	J. W. Mullins	367,832	Aug. 9	725	195	40	597
Door-check	F. W. Andres	365,038	June 21	1208	319	39	1331

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Door-check.....	J. B. Armstrong.....	355,852	Jan. 11	780	205	38	159
Door-check.....	W. S. Barlow.....	365,224	June 21	1474	389	39	1380
Door-check.....	F. L. Becker.....	374,337	Dec. 6	238	63	41	1091
Door-check.....	A. L. Buskirk.....	375,337	Dec. 27	1677	441	41	1396
Door-check.....	M. T. Byrne.....	367,742	Aug. 2	590	160	40	562
Door-check.....	J. E. Carr.....	359,202	Mar. 8	1115	290	38	1116
Door-check.....	C. M. Cashin.....	372,655	Nov. 8	554	151	41	584
Door-check.....	W. H. Downing.....	366,159	July 5	554	149	40	104
Door-check.....	E. Frothingham.....	356,115	Jan. 18	1186	314	38	243
Door-check.....	G. Geer.....	374,245	Dec. 6	107	27	41	1067
Door-check.....	F. D. Guild.....	361,693	Apr. 26	1870	485	39	373
Door-check.....	G. A. Howard, W. H. Hull, and C. S. Black.	373,774	Nov. 22	2256	605	41	920
Door-check.....	J. W. Johnson and H. C. Brown.....	373,984	Nov. 29	2557	687	41	986
Door-check.....	G. H. Lusk.....	372,034	Oct. 25	1873	484	41	392
Door-check.....	J. Merredith.....	359,223	Mar. 8	1150	299	38	1123
Door-check.....	J. R. Palmenberg.....	372,326	Nov. 1	61	18	41	483
Door-check.....	N. Petersen.....	375,094	Dec. 20	1350	352	41	1324
Door-check.....	F. V. Phillips.....	365,536	June 28	1955	509	39	1484
Door-check.....	H. F. Price.....	367,060	July 26	1784	481	40	362
Door-check.....	C. H. Shaw.....	363,688	May 24	2305	598	39	932
Door-check.....	E. H. Shaw and J. D. Wixon.....	361,840	Apr. 26	2082	542	39	411
Door-check.....	J. P. and J. H. Swift.....	374,563	Dec. 6	570	149	41	1156
Door-check.....	S. J. Vance.....	371,646	Oct. 18	1283	332	41	268
Door-check.....	H. Walker.....	364,616	June 7	572	154	39	1195
Door-check.....	S. Wallace.....	373,543	Nov. 22	1933	512	41	857
Door-check.....	G. Weinley.....	360,937	Apr. 12	776	201	39	150
Door-check.....	G. S. White.....	363,927	May 31	2644	686	39	1000
Door-check.....	C. A. Williams.....	371,999	Oct. 25	1810	468	41	382
Door check and closer. Gravitating.....	H. F. Shaw.....	365,491	June 28	1880	{ 489 } 490	{ 39 } 39	1467
Door check and holder.....	C. M. Elkins.....	368,657	Aug. 23	1893	505	40	837
Door-check. Pneumatic.....	G. Geer.....	371,259	Oct. 11	746	191	41	154
Door-check. Pneumatic.....	G. S. Perkins.....	360,042	Mar. 29	2436	619	38	1389
Door-clamp.....	G. W. Immel.....	360,698	Apr. 5	435	111	39	81
Door-closer.....	E. H. Brown.....	366,453	July 12	943	257	40	188
Door. Combined screen and storm.....	L. Guthrie and W. G. Baumgardner.....	363,740	May 24	2376	617	39	945
Door fastener. Sliding.....	W. C. Best.....	370,598	Sept. 27	1875	497	40	1408
Door-fastening.....	E. A. P. Campbell.....	366,377	July 12	856	230	40	169
Door-fastening.....	G. Van Wagenen.....	372,829	Nov. 8	831	221	41	633
Door-fastening.....	G. Van Wagenen.....	372,830	Nov. 8	832	222	41	633
Door-fastening. Barn.....	C. C. Sprinkle.....	365,649	June 28	2116	553	39	1513
Door-fastening device.....	W. A. Sprado.....	355,419	Jan. 4	167	43	38	34
Door-hanger.....	F. B. Brownell.....	371,419	Oct. 11	968	251	41	197
Door-hanger.....	J. Charlton.....	362,937	May 17	1240	329	39	717
Door-hanger.....	J. Christmann.....	374,656	Dec. 13	697	183	41	1192
Door-hanger.....	C. E. Clark.....	363,803	May 31	2468	641	39	969
Door-hanger.....	W. B. Cogger.....	375,342	Dec. 27	1683	442	41	1398
Door-hanger.....	W. B. Cogger and H. A. Hamlin.....	357,580	Feb. 15	1225	322	38	669
Door-hanger.....	H. Fleming.....	373,178	Nov. 15	1360	360	41	739
Door-hanger.....	A. J. Ives.....	358,613	Mar. 1	294	70	38	958
Door-hanger.....	W. O. Kasson.....	369,451	Sept. 6	194	55	40	1069
Door-hanger.....	W. J. Lane.....	368,478	Aug. 16	1654	441	40	783
Door-hanger.....	J. H. Lawrence.....	363,148	May 17	1533	405	39	775
Door-hanger.....	R. Miller and J. G. Kanouse.....	356,075	Jan. 11	1115	295	38	224
Door-hanger.....	A. B. Morse.....	360,898	Apr. 12	714	189	39	140
Door-hanger.....	D. Nickel and C. Zattan.....	359,226	Mar. 8	1154	300	38	1123
Door-hanger.....	J. L. Parks.....	367,998	Aug. 9	967	259	40	643
Door-hanger.....	J. C. Pope.....	367,318	July 26	2164	552	40	432
Door-hanger.....	W. H. Samson.....	371,369	Oct. 11	895	230	41	183
Door-hanger.....	S. Shreffler, Jr.....	355,724	Jan. 11	595	155	38	127
Door-hanger.....	G. M. Waldorf.....	370,109	Sept. 20	1155	305	40	1266
Door hanger. Sliding.....	R. M. Wilson.....	374,859	Dec. 13	982	257	41	1247
Door-hanger tracks. Support for.....	S. M. Stevens.....	357,969	Feb. 15	1779	467	38	771
Door-jamb.....	C. Henriksen.....	367,626	Aug. 2	393	110	40	526
Door knob and lock. Combined.....	E. Whittingham.....	365,891	July 5	187	48	40	37
Door-lock.....	E. Yeiser.....	373,214	Nov. 15	1421	{ 375 } 376	{ 41 } 41	751
Door lock. Sliding.....	F. S. Mason.....	356,724	Jan. 25	2030	533	38	410
Door lock. Sliding.....	E. B. Searles.....	361,897	Apr. 26	2169	562	39	427
Door-mat.....	J. Chattaway.....	366,645	July 19	1235	330	40	251
Door-mat.....	G. Kelly.....	372,225	Oct. 25	2158	553	41	445
Door-mat fastening.....	L. King.....	358,676	Mar. 1	383	92	38	975
Door-mat. Metallic.....	T. Perrins.....	371,474	Oct. 11	1041	271	41	211
Door-opener. Electric.....	A. C. Woehrle.....	374,028	Nov. 29	2613	{ 701 } 702	{ 41 } 41	998
Door-opener. Electrical.....	L. P. Summers.....	358,417	Feb. 22	2406	640	38	893
Door-operating device.....	W. H. Dittmer.....	375,138	Dec. 20	1415	369	41	1335
Door or window fastener and alarm.....	J. L. Painter.....	355,466	Jan. 4	222	60	38	45
Door or window-frame. Knockdown screen.....	J. W. Boughton.....	355,969	Jan. 11	973	255	38	197
Door-panel.....	L. Henkle.....	364,252	June 7	71	21	39	1102
Door-plate and letter-slip alarm. Combined.....	F. Sanderson.....	356,233	Jan. 18	1344	354	38	272
Door-plate, knocker, and letter-receiver. Combined.....	W. A. Moore.....	359,458	Mar. 15	1487	381	38	1193
Door-roller.....	H. F. Sawtelle.....	364,963	June 14	1097	286	39	1300
Door-securer.....	L. H. Jones.....	366,843	July 19	1508	403	40	301
Door-securer.....	H. F. Keil.....	363,145	May 17	1531	404	39	774
Door-securer.....	F. C. Kirchner and W. H. Washburn.....	358,278	Feb. 22	2223	587	38	858
Door-securer.....	C. J. Sargent.....	359,815	Mar. 22	2062	522	38	1313
Door-securer.....	O. M. Whitman.....	371,650	Oct. 18	1288	334	41	269
Door-securing device.....	H. Moore.....	360,897	Apr. 12	713	189	39	140
Door-sill.....	J. B. and G. W. Beam.....	365,774	July 5	7	2	40	4
Door sill.....	W. S. Carlton.....	364,896	June 14	1003	263	39	1283
Door. Sliding.....	C. Dyer.....	359,965	Mar. 22	2310	581	38	1358
Door-spring.....	W. S. Barlow.....	367,020	July 26	1728	465	40	351

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Door-spring.....	E. D. Beales.....	361,981	Apr. 26	2294	597	39	449
Door-spring.....	W. H. Brown.....	363,361	May 24	1818	477	39	839
Door-spring.....	W. Gilfillan.....	356,633	Jan. 25	1920	503	38	389
Door-spring.....	W. Gilfillan.....	373,360	Nov. 15	1644	435	41	791
Door-spring.....	H. Lewy.....	356,001	Jan. 11	1009	265	38	204
Door-spring.....	J. W. O'Daniel.....	369,203	Aug. 30	2664	708	40	996
Door-spring.....	J. D. Seagrave.....	366,889	July 19	1563	419	40	312
Door spring and buffer. Combined.....	H. A. and H. A. House, Jr.....	367,634	Aug. 2	406	{ 112 113 }	{ 40 40 }	528
Door spring and check.....	J. Bardsley.....	366,711	July 19	1326	356	40	268
Door spring and check.....	C. E. Griffing and J. W. Ashborn.....	370,468	Sept. 27	1676	446	40	1373
Door spring and check. Combined.....	J. M. Connel.....	368,194	Aug. 16	1238	331	40	702
Door spring and lock.....	J. Walzer.....	360,632	Apr. 5	342	85, 86	39	65
Door. Storm.....	W. R. Lyle.....	366,489	July 12	994	270	40	198
Door-threshold and weather-strip.....	R. A. Wooldridge and G. W. Frasure.....	362,693	May 10	893	293	39	647
Doors and windows. Hanger for sliding.....	R. Clarke.....	375,260	Dec. 20	1570	412	41	1368
Doors, cases, &c. Fastener for.....	V. S. Ketchum.....	369,185	Aug. 30	2643	702	40	992
Doors. Combined glass-holder and number-plate for.....	W. H. Taylor.....	370,166	Sept. 20	1243	330	40	1283
Doors. Fastening for hinged and sliding.....	G. G. Smith.....	357,344	Feb. 8	864	228	38	591
Doors. Fastening for hinged and sliding.....	G. G. Smith.....	365,871	July 5	160	42	40	32
Doors. Lever-catch for double.....	F. Link.....	369,458	Sept. 6	205	58	40	1071
Doors or gates. Apparatus for opening and closing.....	C. P. Niles.....	374,552	Dec. 6	557	146	41	1154
Doors or windows. Drip-trough for.....	W. W. Pitmon.....	364,434	June 7	317	87	39	1148
Doors. Weather-guard for.....	P. P. Negroponte.....	370,207	Sept. 20	1296	345	40	1293
Doors, windows, &c. Frame for.....	O. A. Bingham.....	369,581	Sept. 6	368	102	40	1104
Dope-cup.....	A. T. Ballantine.....	360,755	Apr. 5	505	130	39	95
Dope-cup.....	A. T. Ballantine.....	361,916	Apr. 26	2193	568	39	432
Dope-cup.....	R. M. Phelan.....	361,891	Apr. 26	2159	560	39	425
Dose-indicator and tumbler-cover.....	J. P. Wilson.....	375,468	Dec. 27	1851	484	41	1431
Double-acting bolt.....	H. Clemons.....	373,338	Nov. 15	1598	422	41	783
Double pile fabric.....	S. C. Lister and J. Reixach.....	355,772	Jan. 11	662	{ 172 173 }	{ 38 38 }	139
Doubletree.....	S. D. Bortell.....	374,139	Nov. 29	2778	747	41	1029
Doubletree.....	J. R. Freeland.....	374,468	Dec. 6	427	111	41	1128
Doubletree and singletree.....	G. L. Story.....	371,481	Oct. 11	1048	273	41	213
Doubletree-clip.....	J. R. Davis.....	365,735	June 28	2258	588	39	1539
Doubletree. Draft-equalizing.....	J. Auer.....	375,690	Dec. 27	2171	565	41	1489
Doubletrees. Hook attachment for.....	W. A. Petrie.....	366,871	July 19	1541	413	40	307
Doubling and twisting machine.....	P. Hebbelynck.....	361,588	Apr. 19	1706	441	39	334
Doubling and winding machines. Stop-motion for.....	J. Dronsfield and H. Gilbody.....	366,465	July 12	956	261	40	190
Doubling and winding silk, &c. Machine for.....	J. E. Tynan.....	356,216	Jan. 18	1317	348	38	267
Doubling-frames, &c. Stop-motion mechanism for.....	A. H. Dixon and W. J. Gradwell.....	358,257	Feb. 22	2190	577	38	851
Doubling-machine.....	A. Galbraith.....	374,055	Nov. 29	2657	714	41	1006
Dough. Machine for sheeting.....	J. H. Mitchell.....	359,273	Mar. 15	1217	318	38	1143
Dough-press. Continuous.....	J. J. Langles.....	375,168	Dec. 20	1457	381	41	1345
Dough-raising apparatus.....	R. L. Ewing.....	367,201	July 26	1982	535	40	399
Dough-raising apparatus.....	H. H. Parkhill.....	371,702	Oct. 18	1377	355	41	287
Dovetailing-machine.....	A. Dodds.....	364,635	June 14	602	162	39	1209
Dovetailing-machine.....	E. Totman.....	374,018	Nov. 29	2600	697	41	994
Dowel-pin. Metallic.....	A. K. Hoffmeier.....	375,449	Dec. 27	1827	478	41	1426
Dowels. Machine for making.....	A. J. Curtis.....	358,965	Mar. 8	810	285	38	1059
Draft attachment for vehicles.....	W. P. Brown.....	357,061	Feb. 1	448	119	38	505
Draft-equalizer.....	W. H. Baker.....	367,739	Aug. 2	586	159	40	561
Draft-equalizer.....	W. H. Baker.....	367,740	Aug. 2	587	160	40	562
Draft-equalizer.....	J., W. J., and J. C. Beal.....	359,661	Mar. 22	1824	464	38	1270
Draft-equalizer.....	D. Conover.....	357,178	Feb. 8	649	168	38	550
Draft-equalizer.....	E. C. Currey.....	370,009	Sept. 13	1003	263	40	1231
Draft-equalizer.....	J. Dailey.....	364,487	June 7	398	108	39	1163
Draft-equalizer.....	J. De Witt.....	367,275	July 26	2098	566	40	420
Draft-equalizer.....	M. N. and W. B. Drake.....	359,065	Mar. 8	943	240	38	1083
Draft-equalizer.....	F. A. Greer.....	367,099	July 26	1849	499	40	374
Draft-equalizer.....	G. H. Inghram.....	375,357	Dec. 27	1702	447	41	1401
Draft-equalizer.....	L. H. Jacoby.....	358,741	Mar. 1	470	115	38	991
Draft-equalizer.....	J. E. Johnson.....	357,832	Feb. 15	1595	414	38	736
Draft-equalizer.....	M. P. Lomen.....	372,859	Nov. 8	876	234	41	641
Draft-equalizer.....	J. Martin.....	375,082	Dec. 20	1330	347	41	1320
Draft-equalizer.....	E. R. Parker.....	372,083	Oct. 25	1953	503	41	405
Draft-equalizer.....	J. J. H. Parrott.....	374,620	Dec. 13	651	170	41	1182
Draft-equalizer.....	G. H. Scofield.....	366,691	July 19	1298	348	40	263
Draft-equalizer.....	A. Sellers.....	358,891	Mar. 8	712	176	38	1039
Draft-equalizer.....	C. D. Smith.....	372,091	Oct. 25	1962	505	41	407
Draft-equalizer.....	H. Williams.....	355,494	Jan. 4	260	69	38	53
Draft-indicator for vehicles.....	W. H. Brown.....	374,111	Nov. 29	2738	735	41	1022
Draft or tug-link. Spring.....	J. T. B. Sidén.....	357,419	Feb. 8	969	255	38	611
Draft-reducer for vehicles.....	C. W. Pearsall.....	356,955	Feb. 1	293	81	38	476
Draft-regulator.....	S. E. Burke.....	374,039	Nov. 29	2632	706	41	1001
Draft-regulator. Duplex automatic.....	N. M. Mann.....	366,493	July 12	998	271	40	199
Draft-regulator for stoves, &c.....	G. W. Lore.....	356,047	Jan. 11	1072	282	38	216
Draft-tube for effervescing drinks.....	W. P. Clark.....	358,650	Mar. 1	342	82	38	967
Drafting-table. Adjustable.....	J. G. Aston.....	356,023	Jan. 11	1035	272	38	209
Draftsman's triangle.....	H. I. Latimer.....	365,479	June 28	1865	484	39	1464
Drag. Stone.....	T. Shaw.....	355,792	Jan. 11	695	181	38	144
Drain for steam or water mains and pipes. Self-acting.....	T. J. Richards.....	369,032	Aug. 30	2441	648	40	951
Drain-pipe.....	T. W. Larrabee.....	373,077	Nov. 15	1203	320	41	711
Draining-machine.....	A. Le Blanc.....	355,329	Jan. 4	52	14	38	12
Draperies, &c. Blank for holding ornamental settings for.....	G. K. Birge.....	356,187	Jan. 18	1277	337	38	259
Draw-bar and bumper.....	F. Peteler.....	369,734	Sept. 13	579	157	40	1153
Draw-bar heads. Blank for.....	J. T. Wilson.....	367,735	Aug. 2	582	158	40	560
Draw-bars. Die for the manufacture of.....	J. T. Wilson.....	367,690	Aug. 2	500	139	40	545
Draw-bars. Manufacture of.....	J. H. Simpson.....	369,263	Aug. 30	2743	731	40	1012

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Draw-bars. Manufacture of.....	J. H. Simpson.....	369,264	Aug. 30	2745	732	40	1012
Draw-bars. Manufacture of.....	J. T. Wilson.....	356,812	Feb. 1	96	27	38	441
Draw-bars. Manufacture of.....	J. T. Wilson.....	356,813	Feb. 1	97	27	38	441
Draw-bars. Manufacture of.....	J. T. Wilson.....	356,814	Feb. 1	98	27	38	441
Drawer.....	J. W. R. Johnson.....	363,242	May 17	1655	434	39	798
Drawer.....	J. H. Knaus.....	363,647	May 24	2242	580	39	920
Drawer and cash-account recorder. Money-.....	C. B. Miller.....	360,456	Apr. 5	87	22	39	17
Drawer-bracket.....	A. L. Moore.....	362,457	May 3	546	151	39	579
Drawer. Cash-box.....	C. Wittinberg.....	368,639	Aug. 23	1872	499	40	833
Drawer. Druggist's weight.....	T. Hodges and A. H. Myers.....	369,243	Aug. 30	2713	721	40	1006
Drawer-equalizer.....	J. H. Knaus.....	367,344	July 26	2203	592	40	440
Drawer-pull.....	G. B. Bronson.....	355,502	Jan. 4	269	71	38	54
Drawer-pull.....	F. H. Chilton.....	373,013	Nov. 8	1107	295	41	682
Drawer-pull.....	W. W. Chilton.....	369,315	Sept. 6	14	4	40	1037
Drawer-pull and label-case. Combined.....	J. F. Neely.....	372,559	Nov. 1	407	109	41	548
Drawers.....	J. B. Wood.....	363,445	May 24	1937	508	39	861
Drawers.....	M. C. Yarwood.....	362,565	May 10	696	194	39	611
Drawers, &c. Construction of nests of.....	T. F. S. Tinne.....	368,173	Aug. 9	1203	322	40	688
Drawers. Lady's.....	W. F. Kneip.....	357,127	Feb. 1	572	147	38	527
Drawers or boxes. Frame or rim for.....	J. J. Grant.....	369,519	Sept. 6	279	77	40	1087
Drawers. Skeleton frame for.....	T. Kundtz.....	362,288	May 3	304	84	39	533
Drawers supporter and gatherer.....	B. M. Fish.....	360,576	Apr. 5	269	66	39	52
Drawing and spinning hemp, &c. Machinery for.....	J. Good.....	355,870	Jan. 11	809	212	38	164
Drawing-board.....	C. M. Podgorski.....	370,409	Sept. 27	1583	423	40	1356
Drawing-board.....	N. W. Salisbury.....	364,731	June 14	735	196	39	1235
Drawing-instrument, calipers, &c.....	F. Miller.....	371,469	Oct. 11	1035	270	41	210
Drawing-knife gage.....	J. H. Hoague.....	366,724	July 19	1345	360	40	271
Drawing-table.....	R. E. Kidder and R. W. Long.....	363,339	May 17	1789	469	39	824
Drawing-table.....	T. W. Mann.....	363,154	May 17	1539	406	39	776
Dredge.....	H. O. Geiger.....	368,884	Aug. 23	2222	591	40	901
Dredge and excavator.....	R. R. Osgood.....	362,587	May 10	729	203	39	616
Dredge. Vacuum.....	J. H. Rae.....	368,354	Aug. 16	1471	392	40	748
Dredger.....	H. B. Angell.....	369,976	Sept. 13	951	251	40	1221
Dredger.....	K. Knott.....	366,010	July 5	360	97	40	68
Dredger.....	H. H. Lynch.....	365,140	June 21	1371	362	39	1358
Dredger.....	A. K. Stone.....	360,927	Apr. 12	751	197	39	146
Dredger.....	A. K. Stone.....	371,801	Oct. 18	1517	391	41	316
Dredging and excavating machine.....	M. A. Shepard.....	364,780	June 14	830	218	39	1250
Dredging apparatus.....	A. B. Bowers.....	364,158	May 31	2974	773	39	1065
Dredging apparatus.....	A. B. Bowers.....	364,571	June 7	520	140	39	1186
Dredging apparatus.....	J. Edwards and J. R. F. Kelly.....	366,468	July 12	961	261	40	191
Dredging-bucket.....	C. A. Morris.....	368,729	Aug. 23	2013	533	40	859
Dredging-machine.....	J. R. Crockett.....	362,877	May 10	1146	308	39	693
Dredging-machine.....	H. B. Herr.....	367,040	July 26	1753	473	40	356
Dredging-machine.....	W. H. Milliken.....	358,686	Mar. 1	396	95, 96	38	977
Dredging-machine.....	C. C. Sullivan.....	374,506	Dec. 6	479	124	41	1138
Dredging-machine.....	J. E. Walsh.....	357,880	Feb. 15	1658	431	38	748
Dredging-machine brace.....	E. Huber, H. M. Barnhart, and G. W. King.....	364,761	June 14	794	209	39	1244
Dredging-machine. Bucket.....	D. Urie.....	355,488	Jan. 4	254	67	38	51
Dredging-machine. Hydraulic.....	B. C. Howell.....	371,686	Oct. 18	1347	348	41	281
Dredging-machines. Derrick for use on.....	W. Butler, Jr., and W. H. Clarke.....	357,520	Feb. 8	1123	294	38	640
Dredging purposes. Float or ponton for carrying lines of pipes for.....	E. Chaquette.....	357,367	Feb. 8	893	235	38	596
Dress armpit-shields. Making.....	M. Stonehill and M. Kilsheimer.....	359,038	Mar. 8	906	231	38	1076
Dress-fitting model.....	J. W. See.....	369,080	Aug. 30	2516	667	40	965
Dress-form.....	C. H. Griffin.....	365,302	June 21	1595	416	39	1401
Dress-form.....	W. H. Knapp.....	373,989	Nov. 29	2564	689	41	987
Dress-form.....	J. D. Richardson.....	373,414	Nov. 15	1721	455	41	805
Dress-forms. Making.....	M. W. Henius.....	372,909	Nov. 8	945	255	41	654
Dress-maker's fitting-chair.....	E. Guion.....	358,198	Feb. 22	2119	559	38	888
Dress-maker's guide.....	M. A. Davis.....	365,800	July 5	61	17	40	13
Dress-shield.....	L. Bryarly.....	374,172	Dec. 6	18	4	41	1049
Dress-shield.....	C. M. A. Campbell.....	374,040	Nov. 29	2633	706	41	1001
Dress-shield.....	H. S. Coffeen.....	363,989	May 31	2742	711	39	1020
Dress-shield.....	T. P. Taylor.....	355,572	Jan. 4	361	97	38	73
Dress-shield.....	M. E. Wheeler.....	375,239	Dec. 20	1543	405	41	1363
Dress-shield.....	T. White.....	371,236	Oct. 11	712	183	41	149
Dress-shield and making the same.....	G. A. Close.....	360,143	Mar. 29	2615	663	38	1420
Dress-shield and making the same.....	G. A. Close.....	373,273	Nov. 15	1500	396	41	765
Dress-shield. Armpit.....	C. Lewenberg.....	367,646	Aug. 2	426	119	40	532
Dress-shields. Die for making seamless.....	A. J. Hiscott.....	365,069	June 21	1261	332	39	1339
Dress-shields. Die for making seamless.....	A. J. Hiscott.....	365,070	June 21	1262	333	39	1340
Dress-supporting device.....	A. Benjamin.....	358,372	Feb. 22	2345	623	38	832
Dress-supporting steel.....	F. P. Marsh.....	364,272	June 7	96	27	39	1107
Dress-weight.....	S. M. Moschcowitz.....	356,048	Jan. 11	1073	282	38	216
Drier: See Brick-drier. Lumber-drier. Clothes-drier. Malt-drier. Fiber-drier. Rotary drier. Fruit-drier. Steam-drier. Grain-drier.							
Drier.....	C. F. B. Caspari.....	374,520	Dec. 6	500	130	41	1142

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Drill:							
See Cavity-drill.	Railway-track drill.						
Coal or rock drill.	Ratchet-drill.						
Corn-drill.	Rock-drill.						
Expansion-drill.	Rock and coal drill.						
Grain-drill.	Rock or coal drill.						
Hand-drill.	Seed-drill.						
Mining-drill.	Well-drill.						
Rail-drill.	Well-boring drill.						
Drill-blank guide	J. D. Cox, Jr	267,894	Aug. 9	814	219	40	615
Drill channeling-machine	A. Ball	374,818	Dec. 13	927	242	41	1237
Drill, fertilizer-sower, and check-row marker	F. C. Vibert	358,369	Feb. 22	2341	{ 621 622 }	{ 38 }	881
Drill-jar	R. C. Elliot	359,856	Mar. 22	2141	539	38	1327
Drill-press	J. F. Winchell	361,105	Apr. 12	1021	258	39	195
Drill stock. Ratchet	C. H. Wilmoth	365,214	June 21	1461	385	39	1377
Drill-tube	T. R. Crane	363,606	May 24	2180	565	39	908
Drills. Fertilizer-feed for	T. R. Crane	363,603	May 24	2176	563	39	907
Drills. Manufacture of	W. H. Sawyer	361,452	Apr. 19	1519	393	39	299
Drilling and tapping machine. Universal	M. Geary	365,983	July 5	322	85	40	62
Drilling apparatus	J. O'Neil	365,850	July 5	128	34	40	26
Drilling-machine	E. Allen and D. S. Henrie	357,807	Feb. 15	1559	406	38	729
Drilling-machine	J. Bailey	366,366	July 12	839	226	40	166
Drilling-machine	A. Gordon	362,618	May 10	779	214	39	625
Drilling-machine	J. W. Heyer	365,744	June 28	2269	591	39	1541
Drilling-machine	A. L. Stanford	371,859	Oct. 18	1607	415	41	335
Drilling-machine attachment	W. Evans	374,181	Dec. 6	26	6	41	1051
Drilling machine. Coal	S. Jones	358,202	Feb. 22	2123	560	38	839
Drilling machine. Coal and rock	E. Moser	363,477	May 24	1988	519	39	871
Drilling-machine lubricator	J. Welsh	365,419	June 28	1773	{ 460 461 }	{ 39 }	1447
Drilling-machine lubricator	C. J. Herrberg	373,830	Nov. 29	2342	628	41	944
Drilling-machine. Portable	J. Moffet	369,120	Aug. 30	2567	682	40	976
Drilling machine. Rock	B. F. Bergh	364,702	June 14	698	186	39	1228
Drilling-machines. Feed mechanism for	W. S. Rogers	373,755	Nov. 22	2224	595	41	915
Drilling-machines. Frame for power	J. S. Wallace	360,183	Mar. 29	2679	676	38	1432
Drilling-machines. Supporting-column for	M. F. Smith	360,177	Mar. 29	2671	674	38	1430
Drilling or slotting machines. Supplemental bed-plate, centering device, and work-holder for	A. F. Brewer	355,679	Jan. 11	526	138	38	112
Drilling rails, girders, and the like. Device for	A. L. Stanford	358,755	Mar. 1	491	120	38	995
Drilling-tool. Pneumatic	A. J. Bates	364,081	May 31	2857	{ 741 742 }	{ 39 }	1043
Drilling-tools. Box-coupling for	A. W. Lewis	360,312	Mar. 29	2861	728	38	1467
Drip-pans. Automatic alarm for	W. Williams	370,838	Oct. 4	121	32	41	25
Driver's seat	P. J. Hatfield	369,178	Aug. 30	2636	{ 699 700 }	{ 40 }	991
Driving-spring. Flexible	A. W. Browne	359,841	Mar. 22	2101	532	38	1320
Dropper:							
See Corn-dropper.	Hand-dropper.						
Fertilizer-dropper.	Seed-dropper.						
Drug-mixing machine	M. J. Jones	362,971	May 17	1291	343	39	726
Druggist-alarm	M. Toulmin	359,581	Mar. 15	1695	432	38	1230
Drum	E. Boulanger	371,415	Oct. 11	963	249	41	196
Drum	W. R. Johnson	365,817	July 5	79	23	40	17
Drum	R. Wurlitzer	373,873	Nov. 29	2399	644	41	955
Drum for furnaces and stoves. Heating	S. A. Field	360,575	Apr. 5	268	66	39	52
Drum. Heating	H. P. Heitmann	364,112	May 31	2902	{ 752 753 }	{ 39 }	1052
Drum. Heating	D. S. Richardson	361,322	Apr. 19	1342	345	39	266
Drum. Heating	J. W. Yates	374,284	Dec. 6	154	41	41	1077
Drum or spark-arrester. Heating	U. J. Wakeman	374,436	Dec. 6	376	99	41	1118
Drum-pedal	G. R. Olney	357,093	Feb. 1	497	132	38	514
Drum. Stove-pipe	K. W. Lotz	355,616	Jan. 4	417	114	38	83
Drum-tightener	C. G. Conn	367,701	Aug. 2	518	142	40	548
Drums. Attachment for	W. H. Travis	366,355	July 12	828	222	40	163
Drums. Lid for metallic	J. Simpson	374,276	Dec. 6	142	38	41	1074
Dry closet	E. C. Condit	358,546	Mar. 1	196	46	38	939
Dry closet	L. B. Robb	365,202	June 21	1446	381	39	1374
Dry closet	I. D. Smead	363,971	May 31	2720	704	39	1015
Dry closet	C. G. Short	375,207	Dec. 20	1502	394	41	1354
Dry closet. Automatic	A. Button	364,988	June 14	1136	298	39	1307
Dry-goods displayer	R. W. Whitehurst	358,418	Feb. 22	2408	640	38	894
Dry-house	W. S. Wootton	375,306	Dec. 20	1633	428	41	1380
Drying offal and other wet products. Machine for	S. E. Worrell	363,933	May 31	2651	{ 688 689 }	{ 39 }	1002
Dumb-waiter	G. W. Cannon	361,263	Apr. 19	1264	323	39	252
Dumb-waiter	G. M. Emerick	375,146	Dec. 20	1426	{ 371 372 373 }	{ 41 }	1338
Dumb-waiter	E. M. Foster	359,437	Mar. 15	1461	374	38	1187
Dumb-waiter	M. J. Lawlor	360,027	Mar. 29	2414	612	38	1384
Dumb-waiter	J. F. Tilman	368,256	Aug. 16	1344	355	40	722
Dumb-waiter stop	J. J. Mahony	356,948	Feb. 1	280	77, 78	38	479
Dumb-waiter stop	J. J. Mahony	367,152	July 26	1923	519	40	387
Dumb-waiter stop	W. M. Seaward	369,967	Sept. 13	930	247	40	1218
Dumping apparatus	G. H. Hulett	370,624	Sept. 27	1915	508	40	1416
Dumping apparatus	G. W. L. Smith and J. F. Dresbach	362,324	May 3	352	97	39	542
Dumping apparatus. Portable	G. Warttinger	360,260	Mar. 29	2790	{ 709 710 }	{ 38 }	1453
Dumping-platform	A. L. Grinnell	360,436	Apr. 5	60	15, 16	39	13
Duplex engine	H. F. Gaskill	364,640	June 14	610	{ 163 164 }	{ 39 }	1210
Duplex engine	H. F. Gaskill	370,776	Oct. 4	35	9	41	9

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Dust-collector.....	G. Behrns.....	357,060	Feb. 1	446	119	38	504
Dust-collector.....	W. and J. Comerford.....	370,686	Sept. 27	2002	{ 532	} 40	1432
Dust-collector.....	J. M. Finch.....	370,533	Sept. 27	1774	{ 533		
Dust-collector.....	J. J. Gerard.....	364,099	May 31	2885	{ 748	} 39	1048
Dust-collector.....	C. E. Merrill.....	371,851	Oct. 18	1597	{ 749		
Dust-collector.....	O. M. Morse.....	370,020	Sept. 13	1022	269	40	1234
Dust-collector.....	O. M. Morse.....	370,021	Sept. 13	1023	270	40	1235
Dust-collector.....	O. M. Morse.....	373,374	Nov. 15	1665	442	41	795
Dust-collector.....	A. C. Nagel, R. H. Kaemp, and A. W. F. G. Linnenbrügge.	361,711	Apr. 26	1895	490	39	377
Dust-collector.....	B. F. Ortman.....	361,232	Apr. 12	1225	311	39	232
Dust-collector.....	J. S. Smith.....	367,858	Aug. 9	761	204	40	604
Dust-collector.....	R. Whitehill.....	360,129	Mar. 29	2597	658	38	1417
Dust-collector.....	R. Whitehill.....	360,130	Mar. 29	2599	{ 658	} 38	1417
Dust-conveyer.....	W. J. Martin.....	369,542	Sept. 6	314	86		
Dust-deflector.....	E. Wilson.....	358,098	Feb. 22	1963	518	38	809
Dust-guard.....	L. K. Fuller.....	369,596	Sept. 6	387	107	40	1109
Dust-pan.....	A. B. Austin.....	360,643	Apr. 5	356	90	39	68
Dust-pan.....	A. B. Levy and G. W. Decker.....	360,453	Apr. 5	82	22	39	17
Dust-pan.....	J. D. McDougal.....	371,612	Oct. 18	1238	322	41	260
Dust-pan.....	L. R. Reichert.....	371,973	Oct. 25	1774	460	41	376
Dust-pan.....	H. J. Vogel.....	359,111	Mar. 8	1004	258	38	1095
Dust-pan. Convertible.....	E. Mignault and G. A. Prichard.....	374,988	Dec. 20	1199	312	41	1296
Dust-whip. Wire.....	M. C. Buck.....	356,348	Jan. 18	1508	396	38	304
Dye-stuff from tetrazo-diphenyl. Yellow-red.....	F. Bayer.....	362,813	May 10	1061	.....	39	678
Dye-stuff. Nitrosophenyl-blue.....	E. Ullrich.....	364,320	June 7	154	.....	39	1118
Dye-stuffs and coloring-matter. Manufacture of.....	F. Bayer.....	363,502	May 24	2032	.....	39	880
Dye-stuffs. Manufacture of.....	J. A. Mathieu.....	356,368	Jan. 18	1534	.....	38	308
Dye-stuffs or coloring-matters. Manufacture of.....	C. Dinsberg.....	366,078	July 5	447	.....	40	84
Dye-stuffs or coloring-matters. Manufacture of new red.....	P. Böttiger.....	365,666	June 28	2149	.....	39	1519
Dye-vat.....	I. H. and T. Bottomley.....	361,921	Apr. 26	2198	{ 570	} 39	433
Dyed fabric. Naphthol.....	T. Holliday.....	355,935	Jan. 11	915	{ 571		
Dyeing.....	T. Holliday.....	362,835	May 10	1087	.....	39	682
Dyeing.....	E. Rau.....	374,320	Dec. 6	218	57	41	1087
Dyeing and bleaching apparatus.....	G. Jagenburg.....	372,472	Nov. 1	276	76, 77	41	523
Dyeing apparatus.....	C. Corron.....	363,949	May 31	2674	694	39	1006
Dyeing apparatus.....	W. Hartley, Jr.....	355,930	Jan. 11	910	237	38	185
Dyeing, &c. Apparatus for.....	T. Hauschel.....	362,620	May 10	783	215	39	626
Dyeing. Apparatus for.....	T. Sampson and F. H. Jealous.....	369,996	Sept. 13	976	258	40	1227
Dyeing brush-stock.....	T. H. Dost.....	368,880	Aug. 23	2216	.....	40	900
Dyeing fabrics. Machine for.....	C. Corron.....	370,856	Oct. 4	155	42	41	31
Dyeing. Naphthol.....	T. Holliday.....	355,933	Jan. 11	914	.....	38	186
Dyeing skeins. Apparatus for.....	C. Meadowcroft and P. Denanhouer.....	359,806	Mar. 22	2049	519	38	1310
Dyeing textile animal fibers.....	T. Holliday.....	355,934	Jan. 11	915	.....	38	186
Dyeing with basic aniline.....	E. Holliday and E. Rau.....	357,281	Feb. 8	785	.....	38	576
Dyeing wool-tops. Apparatus for.....	W. S. Alexander.....	375,591	Dec. 27	2022	525	41	1462
Dynamite.....	S. D. Smolianinoff.....	372,338	Nov. 1	77	.....	41	486
Dynamometer. Electric.....	J. Cauderay.....	372,358	Nov. 1	108	{ 31	} 41	491
Dynamometer. Recording.....	C. M. Giddings.....	361,689	Apr. 26	1865	{ 32		
Ear and mouth protector.....	L. Nehemias.....	366,788	July 19	1430	382	40	286
Ear and neck protector.....	L. Friedman.....	365,061	June 21	1252	330	39	1338
Ear-drum. Artificial.....	B. N. Huestis.....	366,838	July 19	1497	400	40	299
Ear-drum. Artificial.....	E. A. Williams.....	360,074	Mar. 29	2498	634	38	1399
Ear-muff.....	D. Basch.....	358,718	Mar. 1	445	108	38	986
Ear-muff.....	D. Basch.....	360,985	Apr. 12	845	216	39	162
Ear-muff.....	D. Basch.....	375,594	Dec. 27	2027	526	41	1463
Ear-muff.....	A. L. Britton.....	359,425	Mar. 15	1447	370	38	1184
Ear-protector.....	I. B. Kleinert.....	359,612	Mar. 22	1764	448	38	1259
Ear-ring.....	L. F. Brooks.....	358,832	Mar. 8	611	151	38	1022
Ear-ring.....	H. Knickman.....	364,179	May 31	3004	780	39	1070
Ear-ring.....	A. Luthy.....	361,769	Apr. 26	1969	514	39	390
Ear-ring.....	E. A. Straat.....	360,395	Mar. 29	2980	755	38	1487
Ear-ring fastening.....	T. W. F. Smitten.....	364,140	May 31	2949	766	39	1060
Ear-ring fastening.....	T. W. F. Smitten.....	371,283	Oct. 11	778	199	41	161
Ear-stud.....	F. Wessel.....	363,030	May 17	1374	363	39	743
Ear wire and catch.....	W. C. Edge.....	360,423	Apr. 5	29	9	39	8
Earth and rock drilling machine.....	E. W. Poorman.....	371,968	Oct. 25	1768	458	41	374
Earth-closet.....	C. D. Lane.....	362,637	May 10	816	223	39	632
Earth-closet.....	J. H. Watson.....	357,253	Feb. 8	750	194	38	569
Earthenware. Coloring glazed.....	M. C. Stone.....	362,123	May 3	99	30	39	492
Earthenware. Manufacturing.....	M. S. Higbie.....	373,290	Nov. 15	1529	.....	41	770
Earthenware vessels. Press for.....	H. E. Merrill.....	368,956	Aug. 30	2334	621	40	931
Easel.....	A. K. Cross.....	364,991	June 14	1139	298	39	1307
Easel.....	M. A. Maxwell.....	368,677	Aug. 23	1929	513	40	845
Easel.....	H. A. Simsrott.....	360,737	Apr. 5	484	124	39	91
Easel. Drawing.....	R. Rink and M. E. Sandford.....	365,634	June 28	2099	547	39	1510
Easel. Studio.....	A. K. Cross.....	374,116	Nov. 29	2747	738	41	1023
Eaves-trough.....	J. L. Holton.....	362,836	May 10	1087	294	39	682
Eaves-trough.....	J. Krueger.....	358,936	Mar. 8	774	193	38	1051
Eaves-trough.....	W. A. List.....	357,839	Feb. 15	1605	416	38	738
Eaves-trough.....	G. W. Taylor.....	357,876	Feb. 15	1650	429	38	747
Eaves-trough angle or miter.....	L. M. Bowers.....	363,044	May 17	1395	368	39	747
Eaves-trough hanger.....	L. E. Gould.....	368,828	Aug. 23	2146	569	40	885
Eaves-trough hanger.....	O. Harley.....	369,708	Sept. 13	546	150	40	1148
Eaves-trough hanger.....	E. T. Kundert.....	356,046	Jan. 11	1071	282	38	216
Eaves-trough hanger.....	C. Lumm.....	376,073	Sept. 20	1099	291	40	1257
Eccentric. Shifting.....	J. Grant.....	363,629	May 24	2219	375	39	915

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Edge-burnishing machine	R. Ashe	364,156	May 31	2972	{ 772 773 }	39	1064
Edge-setting machine	P. McLaughlin	374,314	Dec. 6	208	55	41	1085
Edger. Gang	W. F. Parish	369,025	Aug. 30	2426	644	40	949
Educational appliance	R. S. Pollard	375,095	Dec. 20	1351	{ 352 353 }	41	1324
Educator and puzzle	J. W. Ashborn	364,465	June 7	369	101	39	1158
Effervescent beverage powder	R. C. Scott	369,368	Sept. 6	84	40	1050	
Egg-beater	T. W. Brown	369,273	Aug. 30	2755	735	40	1014
Egg-beater	W. P. Dodson	375,274	Dec. 20	1590	417	41	1371
Egg-beater	W. J. Johnson	359,976	Mar. 22	2326	585	38	1361
Egg-beater	G. H. Paine	365,624	June 28	2084	544	39	1508
Egg-beater	D. H. Rice	371,976	Oct. 25	1778	461	41	377
Egg-beater	C. W. Stambaugh	362,858	May 10	1120	302	39	688
Egg-beater	L. Wikidal	367,569	Aug. 2	312	90	40	511
Egg-beater	D. T. Winter	372,282	Oct. 25	2242	575	41	461
Egg beater and mixer	D. Peters	370,406	Sept. 27	1578	422	40	1355
Egg beater and mixer combined	L. Rosenkranz	374,706	Dec. 13	766	201	41	1206
Egg-boiler. Automatic	G. L. Dale	375,539	Dec. 27	1941	{ 507 508 }	41	1448
Egg-cabinet. Revolving	H. J. Tellefson and T. Gundersen	369,753	Sept. 13	598	162	40	1157
Egg-carrier	H. E. Aylsworth	365,721	June 28	2230	581	39	1534
Egg-carrier	J. Frazee	364,004	May 31	2758	715	39	1023
Egg-carrier	A. Helmer	359,927	Mar. 22	2247	565	38	1346
Egg-carrier	J. L. Joyce	355,996	Jan. 11	1005	264	38	204
Egg-carrier	J. L. Joyce	355,997	Jan. 11	1006	265	38	204
Egg-carrier	E. C. Peebles	355,659	Jan. 4	493	131	38	96
Egg-carriers. Machine for making	J. L. Joyce	355,995	Jan. 11	1002	{ 263 264 }	38	203
Egg-case	J. R. Jones	357,484	Feb. 8	1064	281	38	629
Egg-case	C. L. Krum	375,363	Dec. 27	1708	449	41	1402
Egg-case machines. Feeding mechanism for	J. H. Batchelder	362,482	May 10	584	164	39	591
Egg-crates. Material for	O. L. Parmenter	374,849	Dec. 13	969	253	41	1244
Egg-opener	W. R. Hartigan	355,316	Jan. 4	33	9	38	8
Egg-preserving compound	N. C. Jürgens	360,350	Mar. 29	2913	38	1476	
Egg-preserving device	O. W. Jones	358,455	Mar. 1	45	12	38	912
Egg-safe	D. B. Smith	374,210	Dec. 6	58	15	41	1058
Egg-tester	B. B. Gurley	358,444	Mar. 1	30	9	38	909
Egg-tester	H. Oppermann	371,517	Oct. 11	1103	287	41	224
Egg-tester	M. Sexsmith	360,176	Mar. 29	2670	673	38	1430
Egg tester and register. Combined	C. J. Mikesch and H. W. Conant	367,542	Aug. 2	270	76, 77	40	503
Egg-tray machine	G. L. Jaeger	369,944	Sept. 13	893	{ 237 238 239 }	40	1212
Eggs. Apparatus for preserving	W. N. Candee	360,202	Mar. 29	2702	{ 682 683 }	38	1436
Eggs. Apparatus for preserving	L. A. Hapgood	359,783	Mar. 22	2020	511	38	1305
Eggs. Apparatus for preserving	L. A. Hapgood	359,784	Mar. 22	2021	511	38	1305
Eggs. Device for turning	S. H. Raymond	359,327	Mar. 15	1294	336	38	1156
Eggs. Preserving	H. Decanniere and A. F. Harrison	371,254	Oct. 11	740	41	153	
Eggs. Preserving	J. T. Gray	358,656	Mar. 1	253	38	969	
Ejector. Fluid	C. M. and C. E. Kemp	356,647	Jan. 25	1935	507	38	392
Ejector. Fluid	C. M. and C. E. Kemp	372,024	Oct. 25	1843	{ 477 478 }	41	388
Elastic bandage for varicose veins, &c.	L. T. J. Lubin	366,590	July 12	1151	308	40	228
Elastic braid. Open-work	B. Goodman	362,440	May 3	514	144	39	574
Elastic compound. Rubber-covered	H. W. Libbey	365,137	June 21	1364	361	39	1357
Elastic fabric	J. W. Green, Jr., and G. C. Moore	360,431	Apr. 5	52	13	39	11
Elastic fabric	J. W. Green, Jr., and G. C. Moore	360,432	Apr. 5	53	13	39	11
Elastic fabric	J. Kayser	375,073	Dec. 20	1318	344	41	1318
Elastic fabric	G. C. Moore and J. W. Green, Jr.	368,229	Aug. 16	1306	344	40	714
Elastic fabric	G. C. Moore and J. W. Green, Jr.	368,230	Aug. 16	1307	345	40	714
Elastic fabric	T. Taylor	363,434	May 24	1921	504	39	858
Elastic or corded fabric	W. Lapworth	360,449	Apr. 5	77	20	39	16
Elastic or corded fabric	W. Lapworth	360,450	Apr. 5	78	20	39	16
Elbow machine. Lock-seam	W. Thom	365,652	June 28	2125	{ 555 556 557 }	39	1515
Electric accumulator	C. B. De Montaud	356,390	Jan. 18	1562	411	38	313
Electric alarm	C. E. Chinnoek	355,384	Jan. 4	122	33	38	26
Electric apparatus. Binding device for	I. W. Litchfield	361,705	Apr. 26	1887	488	39	376
Electric-arc light	S. Doubrava	366,938	July 19	1622	{ 434 435 }	40	323
Electric-arc lights. Dash-pot for	C. E. Scribner	356,211	Jan. 18	1310	347	38	266
Electric batteries. Inclosing-cell for	C. A. Faure	366,717	July 19	1335	357	40	269
Electric battery	J. A. Barrett	374,862	Dec. 13	990	259	41	1248
Electric battery	F. B. Crocker and C. G. Curtis	358,386	Feb. 22	2367	629	38	886
Electric battery	P. Germain	365,359	June 21	1678	438	39	1418
Electric battery	O. Lugo	362,847	May 10	1103	299	39	685
Electric battery	D. Misell	362,584	May 10	725	201	39	616
Electric battery	K. Pollak	359,690	Mar. 22	1868	{ 474 475 }	38	1279
Electric battery	S. S. Wheeler and C. G. Curtis	358,314	Feb. 22	2267	598	38	867
Electric-battery jar	C. G. Curtis and F. B. Crocker	358,019	Feb. 22	1847	{ 488 489 }	38	789
Electric battery. Primary	J. F. McLaughlin	375,561	Dec. 27	1977	515	41	1454
Electric battery. Secondary	J. T. Van Gestel	358,092	Feb. 22	1957	517	38	809
Electric-brake coupling	G. F. Card	372,599	Nov. 1	463	124	41	557
Electric brakes and other devices. Circuit-closing apparatus for	E. E. Ries	356,963	Feb. 1	303	84	38	478
Electric brakes. Circuit system for	G. F. Card	357,760	Feb. 15	1501	392	38	718
Electric brakes. Circuit system for	G. F. Card	372,598	Nov. 1	460	{ 123 124 }	41	557
Electric brakes. Operating	E. E. Ries	356,964	Feb. 1	308	84	38	479

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electric cable	F. Borel	370,528	Sept. 27	1768	471	40	1388
Electric cable	A. F. Dolbear	373,394	Nov. 15	1688	448	41	800
Electric cable. Bunched	J. H. Dalzell	369,593	Sept. 6	384	107	40	1108
Electric-cable clip	C. C. Gould and W. Smith	362,376	May 3	426	118	39	558
Electric cable. Underground	J. H. Dalzell	369,320	Sept. 6	19	5	40	1038
Electric cables. Making impervious the joints of the lead pipe of	W. R. Patterson	369,121	Aug. 30	2568	682	40	976
Electric cables. Manufacture of bunched	J. H. Dalzell	369,592	Sept. 6	382	106	40	1108
Electric cables. Manufacture of diminishing	J. H. Dalzell	369,594	Sept. 6	384	107	40	1108
Electric cables. Terminal for	R. H. Widdicombe	367,734	Aug. 2	581	157	40	560
Electric call-box	L. B. Firman	375,617	Dec. 27	2062	536	41	1469
Electric call or signal apparatus	G. W. Foster	371,752	Oct. 18	1443	373	41	302
Electric circuit-changing and signaling apparatus	I. H. Farnham	375,543	Dec. 27	1948	509	41	1449
Electric-circuit connection	S. Heffner and J. H. Phillips	371,840	Oct. 18	1576	407	41	328
Electric-circuit controller. Automatic	T. P. Conant	360,375	Mar. 29	2952	750	38	1481
Electric-circuit regulator	J. A. Powers	359,739	Mar. 22	1937	491	38	1291
					492		
Electric circuit-testing apparatus	G. F. Bulen	365,726	June 28	2238	582	39	1535
					583		
Electric circuits. Apparatus for testing	A. D. Wheeler	359,338	Mar. 15	1307	339	38	1159
Electric circuits. Circuit-controller for	L. M. Byllesby and P. Lange	366,374	July 12	854	229	40	168
Electric circuits. Prevention of induction in	J. O. Stockwell	355,420	Jan. 4	168	44	38	34
Electric circuits. Safety-strip for	P. Lange and O. B. Shallenberger	374,842	Dec. 13	961	251	41	1243
Electric circuits. Safety-strip for	O. B. Shallenberger	366,350	July 12	823	221	40	162
Electric conducting-wires. Coupling for	G. A. Carpenter	355,380	Jan. 4	116	31	38	25
Electric conducting-wires, &c. System of support- ing and repairing	H. Flad	361,217	Apr. 12	1201	305	39	227
					306		
Electric conductor	T. S. Reed	367,548	Aug. 2	280	79	40	504
Electric conductor	G. Westinghouse, Jr.	366,361	July 12	834	223	40	165
					224		
Electric conductor. Underground	D. C. James	375,633	Dec. 27	2087	543	41	1474
Electric conductor. Underground	H. Metzger	372,078	Oct. 25	1945	502	41	404
Electric conductors. Battery-connection for	P. Bowe	368,321	Aug. 16	1429	379	40	739
Electric conductors. Conduit for	E. B. Greene	374,738	Dec. 13	811	213	41	1215
Electric conductors. Conduit system for	J. F. Munsie	356,152	Jan. 18	1238	328	38	252
Electric conductors. Coupling for	F. C. Plume	359,982	Mar. 22	2331	586	38	1362
Electric conductors. Insulating-clamp for	T. E. Adams	371,161	Oct. 11	613	157	41	129
Electric conductors. Junction-box for	J. Kruesi	366,173	July 5	573	154	40	108
Electric conductors. Roof for suspended	C. J. Van Depoele	367,475	Aug. 2	160	45	40	482
Electric conductors. Support for	M. J. Hart	368,766	Aug. 23	2063	546	40	869
					547		
Electric conductors. Terminal for	F. C. Watkins	355,423	Jan. 4	172	45	38	35
Electric conductors. Underground conduit for	J. F. Munsie	356,151	Jan. 18	1236	327	38	252
Electric conduit	R. L. Harris	358,609	Mar. 1	291	69	38	957
Electric covering for indicating abnormal conditions	G. J. Jewell	362,010	Apr. 26	2337	609	39	456
Electric converter	H. M. Byllesby	366,375	July 12	855	229	40	168
Electric converter	O. B. Shallenberger	373,029	Nov. 8	1133	303	41	686
Electric coupling	C. Runels	367,931	Aug. 9	870	237	40	625
Electric coupling	G. W. Taylor	373,759	Nov. 22	2229	597	41	916
Electric coupling device	P. Lange	374,843	Dec. 13	962	251	41	1243
Electric-current indicator	J. W. Howell	356,041	Jan. 11	1064	279	38	215
					280		
Electric-current indicator	J. W. Howell	356,042	Jan. 11	1066	280	38	215
Electric-current indicator	W. H. Markland	371,958	Oct. 25	1751	453	41	371
Electric-current regulator	S. D. Field	374,404	Dec. 6	328	86	41	1108
Electric-current wires or cables. Subway for	J. MacFarlane	361,276	Apr. 19	1280	328	39	255
Electric currents. Apparatus for measuring	H. Aron	374,860	Dec. 13	983	257	41	1247
Electric currents. Apparatus for measuring	H. Aron	374,861	Dec. 13	986	258	41	1247
Electric currents. Apparatus for transforming	L. Bollmann	365,116	June 21	1331	353	39	1352
Electric currents. Arrestor for	J. P. Freeman	367,901	Aug. 9	824	221	40	617
Electric currents. Device for regulating the flow of	E. T. Starr	357,873	Feb. 15	1647	429	38	746
Electric currents. Resistance-regulator for	G. Montanus	372,860	Nov. 8	876	234	41	641
Electric currents. Underground conduit for power- ful	G. B. Pennock	359,738	Mar. 22	1935	491	38	1290
Electric cut-out	J. Fuchs	356,632	Jan. 25	1918	503	38	389
Electric cut-out	A. E. Paige	356,008	Jan. 11	1017	267	38	206
Electric cut-out	O. B. Shallenberger	357,293	Feb. 8	802	209	38	579
Electric danger-alarm. Automatic	J. J. Ghegan	362,739	May 10	953	259	39	658
					260		
Electric distribution. Automatic regulator for	W. Stanley, Jr.	366,523	July 12	1047	285	40	208
Electric distribution for alternating currents. Sys- tem of	E. Thomson	372,501	Nov. 1	315	86, 87	41	530
Electric distribution. Pressure-indicating apparatus and circuit for a system of	O. B. Shallenberger	372,936	Nov. 8	981	266	41	660
Electric distribution. System of	J. F. McElroy	366,124	July 5	515	139	40	97
Electric distribution. System of	E. Thomson	360,122	Mar. 29	2582	655	38	1414
					656		
Electric distribution. System of	E. Thomson	360,125	Mar. 29	2592	657	38	1416
Electric distribution. System of	E. Thomson	367,469	Aug. 2	152	43, 44	40	481
Electric distribution. System of	M. Waddell	374,381	Dec. 6	299	79	41	1103
Electric furnace	E. H. and A. H. Cowles	360,144	Mar. 29	2616	663	38	1420
Electric generator	L. G. Woolley	369,219	Aug. 30	2686	713	40	1000
Electric generator and motor	A. F. Congdon	374,778	Dec. 13	867	228	41	1226
Electric generator. Dynamo	J. W. Easton	357,705	Feb. 15	1405	370	38	701
Electric generator. Dynamo	R. Eickemeyer	369,400	Sept. 6	125	36	40	1056
Electric-generator regulator	R. P. Sellon and W. M. Mordey	373,859	Nov. 29	2379	640	41	952
Electric generator. Self-exciting alternate-current	J. W. Easton	363,126	May 17	1504	398	39	769
Electric generators. Apparatus for connecting alter- nate-current	O. B. Shallenberger	372,935	Nov. 8	979	265	41	660
Electric generators. Commutator for	O. B. Shallenberger	367,934	Aug. 9	875	238	40	626
Electric generators. Fusible connection for arma- tures of	J. W. Easton	361,273	Apr. 19	1277	327	39	254
Electric generators. Regulation of	D. Higham	374,406	Dec. 6	333	87	41	1109

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Electric generators. Regulator for self-exciting alternate-current	O. B. Shallenberger.....	366,349	July 12	821	221	40	162
Electric heater.....	W. L. Burton.....	357,572	Feb. 15	1214	320	38	667
Electric indicator.....	F. K. Fitch.....	360,381	Mar. 29	2963	752	38	1484
Electric inductive translator.....	W. Main.....	361,770	Apr. 26	1970	514 515 516	39	390
Electric-instrument protector.....	I. H. Farnham.....	360,570	Apr. 5	260	65	39	50
Electric-light bulb. Incandescent.....	R. Haines.....	372,313	Nov. 1	44	14	41	480
Electric-light carbons. Compensating mechanism for regulating	J. A. Lakin.....	362,289	May 3	306	84	39	533
Electric-light filaments. Carbonizing-mold for incandescent	E. P. Thompson.....	369,664	Sept. 6	490	135	40	1127
Electric-light filaments. Carbonizing-mold for incandescent	E. P. Thompson.....	369,666	Sept. 6	492	135	40	1128
Electric-light filaments. Testing.....	E. P. Thompson.....	369,665	Sept. 6	491	135	40	1128
Electric-light filaments. Treating.....	E. P. Thompson.....	370,992	Oct. 4	386	97	41	76
Electric-light switch-board.....	C. E. Scribner.....	367,670	Aug. 2	476	131	40	541
Electric-light systems. Switch-board for.....	G. H. Warde.....	358,309	Feb. 22	2262	596	38	866
Electric lights. Apparatus for suspending.....	G. P. Nichols and M. Coombs, Jr.....	360,040	Mar. 29	2433	618 619	38	1388
Electric lights. Flexible standard and conductor for.....	E. C. Fasoldt.....	375,702	Dec. 27	2185	568	41	1492
Electric lights. Key-socket for incandescent.....	F. L. Pope, H. M. Byllesby and P. Lange.....	366,606	July 12	1176	315	40	233
Electric lights. Manufacture of filaments for incandescing	T. A. Edison.....	370,124	Sept. 20	1182		40	1271
Electric lights. Mast-arm for.....	F. H. Parker.....	366,603	July 12	1172	314 315	40	232
Electric lights. Safety-circuit for.....	E. T. Greenfield.....	355,446	Jan. 4	197	53	38	40
Electric lights. Support for.....	A. G. Schlotterbeck.....	362,399	May 3	454	126	39	564
Electric lights. Suspending.....	H. F. Edwards.....	355,443	Jan. 4	194	52	38	39
Electric lights. Treating filaments for incandescent	E. P. Thompson.....	369,267	Aug. 30	2748	732	40	1012
Electric lighting. Application of accumulators to.....	T. P. Conant.....	373,883	Nov. 29	2414	649	41	958
Electric-lighting system.....	F. A. Cheney.....	359,713	Mar. 22	1900	482 483	38	1284
Electric-lighting system.....	J. E. H. Gordon.....	358,346	Feb. 22	2310	611 612	38	875
Electric-lighting system.....	J. A. Powers.....	360,538	Apr. 5	211	52	39	41
Electric-lighting systems. Indicator for.....	W. J. Hammer.....	363,333	May 17	1781	467	39	822
Electric-line system. Subterranean.....	G. W. Le Vin.....	370,955	Oct. 4	323	79 80 81	41	64
Electric lock.....	M. I. Flowers.....	363,623	May 24	2209	572 573	39	914
Electric lock.....	T. B. Hornaday.....	368,212	Aug. 16	1264	337	40	707
Electric machine and electromotor. Dynamo.....	W. Main.....	373,145	Nov. 15	1299	346 347	41	729
Electric machine. Dynamo.....	C. Batchelor.....	372,447	Nov. 1	242	67	41	516
Electric machine. Dynamo.....	J. W. Easton.....	363,128	May 17	1506	399	39	769
Electric machine. Dynamo.....	J. W. Easton.....	366,941	July 19	1629	436	40	324
Electric machine. Dynamo.....	T. A. Edison.....	373,584	Nov. 22	1985	528	41	866
Electric machine. Dynamo.....	R. Eickemeyer.....	358,340	Feb. 22	2299	606 607 608	38	874
Electric machine. Dynamo.....	J. Gray.....	374,959	Dec. 20	1157	303	41	1289
Electric machine. Dynamo.....	W. Lahmeyer.....	370,794	Oct. 4	61	16	41	14
Electric machine. Dynamo.....	R. J. Sheehy.....	359,894	Mar. 22	2192	553	38	1336
Electric machine. Dynamo.....	S. H. Short.....	356,667	Jan. 25	1960	514	38	397
Electric machine. Dynamo.....	F. J. Sprague.....	372,822	Nov. 8	820	219 220	41	631
Electric machine. Dynamo.....	W. Stanley, Jr.....	372,945	Nov. 8	995	268	41	663
Electric machine. Dynamo.....	N. Tesla.....	359,748	Mar. 22	1958	496	38	1294
Electric machine. Dynamo.....	H. E. Walter and C. Batchelor.....	360,258	Mar. 29	2787	709	38	1453
Electric machine. Dynamo.....	H. E. Walter and C. Batchelor.....	360,259	Mar. 29	2788	709	38	1453
Electric machine. Dynamo.....	G. Westinghouse, Jr., H. M. Byllesby, O. B. Shallenberger, A. Schmid, and B. Hartley.....	374,858	Dec. 13	979	255 256 257	41	1246
Electric machine or motor. Dynamo.....	E. Thomson.....	369,754	Sept. 13	599	163	40	1157
Electric-machine regulator. Dynamo.....	C. E. L. Brown.....	372,201	Oct. 25	2123	546	41	438
Electric-machine regulator. Dynamo.....	C. L. Buckingham.....	359,770	Mar. 22	1999	505	38	1301
Electric-machine regulator. Dynamo.....	E. T. and D. Higham.....	362,510	May 10	621	175	39	598
Electric-machine regulator. Dynamo.....	C. G. Perkins.....	361,712	Apr. 26	1896	491 492	39	378
Electric-machine regulator. Dynamo.....	E. Place.....	369,655	Sept. 6	476	132	40	1125
Electric-machine regulator. Dynamo.....	F. Vivó y Graells.....	358,133	Feb. 22	2025	532	38	820
Electric machines and motors. Brush-shifter for dynamo.....	E. H. Amet.....	371,536	Oct. 18	1131	295	41	239
Electric machines and motors. Regulator for dynamo.....	E. Thomson.....	367,470	Aug. 2	154	44	40	481
Electric machines. Armature-core for dynamo.....	A. Schmid.....	361,896	Apr. 26	2168	561	39	427
Electric machines. Armature for dynamo.....	W. A. Leipner.....	360,030	Mar. 29	2418	614	38	1385
Electric machines. Armature for dynamo.....	E. Thomson.....	356,902	Feb. 1	224	62	38	463
Electric machines. Armature for dynamo.....	M. J. Wightman and O. Urban.....	367,080	July 26	1818	490	40	368
Electric machines. Automatic regulator for dynamo.....	C. D. Jenney.....	373,369	Nov. 15	1656	440 441	41	793
Electric machines. Commutator-adjuster for dynamo.....	C. L. Buckingham.....	357,115	Feb. 1	549	143	38	523
Electric machines. Commutator-connection for dynamo.....	J. W. Easton.....	373,971	Nov. 29	2540	683	41	982
Electric machines. Commutator for dynamo.....	E. P. Warner.....	361,973	Apr. 26	2282	593	39	446
Electric machines. Commutator for dynamo.....	G. Westinghouse, Jr., and A. Schmid.....	357,295	Feb. 8	805	209	38	579
Electric machines. Coupling compound dynamo.....	E. Thomson.....	367,471	Aug. 2	156	44	40	481
Electric machines. Coupling dynamo.....	E. Thomson.....	367,866	Aug. 9	770	208	40	606
Electric machines. Current-collecting device for dynamo.....	D. Williamson.....	355,738	Jan. 11	615	160 161	38	130

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electric machines. Inclosing-case for	C. H. Hinds	368,088	Aug. 9	1088	290	40	666
Electric machines. Method of and apparatus for detecting short circuits in dynamo-	J. W. Easton	363,129	May 17	1507	399	39	769
Electric machines. Safety contact-brush for dynamo-	J. W. Easton	363,127	May 17	1505	398	39	769
Electric machines. Winding armatures of dynamo-	C. E. Scribner	373,948	Nov. 29	2505	672	41	975
Electric machinery. Dynamo-	H. E. Walter	373,034	Nov. 8	1139	305	41	688
Electric meter	H. M. Byllesby	373,010	Nov. 8	1100	{ 293 294 }	{ 41 41 }	681
Electric meter	R. N. Dyer	371,559	Oct. 18	1162	303	41	245
Electric meter	T. A. Edison	370,123	Sept. 20	1180	312	40	1270
Electric meter	J. E. H. Gordon	355,871	Jan. 11	813	213	38	165
Electric meter	W. Stanley, Jr.	366,268	July 12	712	193	40	142
Electric meter	W. A. Stern	375,392	Dec. 27	1746	458	41	1410
Electric motor	W. Baxter, Jr.	361,115	Apr. 12	1032	262	39	197
Electric motor	G. F. Card	364,086	May 31	2866	743	39	1045
Electric motor	E. P. Clark	359,429	Mar. 15	1454	371	38	1186
Electric motor	P. Diehl	356,576	Jan. 25	1831	479	38	372
Electric motor	J. W. Easton	361,274	Apr. 19	1278	328	39	254
Electric motor	F. E. Fisher	360,216	Mar. 29	2721	688	38	1440
Electric motor	W. W. Griscom	356,834	Feb. 1	123	33, 34	38	446
Electric motor	D. Higham	372,910	Nov. 8	946	256	41	654
Electric motor	W. Hochhausen	374,871	Dec. 13	1004	262	41	1251
Electric motor	E. J. Houston	356,878	Feb. 1	195	54	38	457
Electric motor	E. Julien	375,676	Dec. 27	2147	558	41	1485
Electric motor	J. H. Linville	355,771	Jan. 11	653	{ 171 172 }	{ 38 38 }	137
Electric motor	M. W. Long	358,682	Mar. 1	391	94	38	976
Electric motor	J. F. McLaughlin	375,560	Dec. 27	1977	514	41	1454
Electric motor	A. W. Meston	367,651	Aug. 2	439	121	40	534
Electric motor	R. J. Sheehy	362,322	May 3	348	96	39	541
Electric motor	F. J. Sprague	372,823	Nov. 8	822	220	41	631
Electric motor	E. Thomson	373,108	Nov. 15	1243	331	41	719
Electric motor. Alternating-current	E. Thomson	363,185	May 17	1585	417	39	786
Electric motor and dynamo-electric machine	R. M. Hunter	363,466	May 24	1968	{ 514 515 }	{ 39 39 }	866
Electric motor and fan. Combined	H. H. Blades	375,255	Dec. 20	1565	410	41	1367
Electric motor or dynamo-electric machine	F. J. Patten	374,621	Dec. 13	652	170	41	1182
Electric-motor regulator	A. W. Meston	372,231	Oct. 25	2167	{ 556 557 }	{ 41 41 }	447
Electric motors and generators. Prevention of sparking in	D. Higham	373,739	Nov. 22	2202	589	41	911
Electric motors and other translating devices. Apparatus for reversing and controlling	W. Hochhausen	374,872	Dec. 13	1005	263	41	1251
Electric motors. Automatic regulator for	W. Stanley, Jr.	366,267	July 12	710	193	40	142
Electric motors. Horizontal governor for	W. Baxter, Jr.	361,116	Apr. 12	1035	262	39	197
Electric motors. Journal-bearing for	W. Baxter, Jr.	361,117	Apr. 12	1038	262	39	198
Electric motors. Method of and apparatus for starting	L. Daft	371,436	Oct. 11	994	258	41	202
Electric motors. Regulation of	W. Stanley, Jr.	374,910	Dec. 13	1069	{ 279 280 }	{ 41 41 }	1264
Electric motors. Regulation of	S. S. Wheeler	370,000	Sept. 13	985	260	40	1228
Electric motors. Reversing mechanism for	F. E. Fisher	371,443	Oct. 11	1002	{ 260 261 }	{ 41 41 }	204
Electric motors. Transmitting-gear for	W. H. Knight	358,043	Feb. 22	1880	{ 497 498 499 }	{ 38 38 38 }	795
Electric push-button	F. R. Brainard	355,858	Jan. 11	790	207	38	160
Electric push-button	A. G. Davis	358,109	Feb. 22	1983	523	38	813
Electric receiving and transmitting device. Combined	F. S. Carter	368,809	Aug. 23	2121	561	40	880
Electric regulator	O. B. Shallenberger	359,101	Mar. 8	991	253	38	1093
Electric resistance. Variable	J. M. Stearns, Jr.	362,859	May 10	1121	302	39	689
Electric signal for engines	J. C. Ricketson	356,792	Feb. 1	70	19	38	436
Electric-signal system	C. Lambdin	360,025	Mar. 29	2412	611	38	1383
Electric sole	F. B. Wallis	360,127	Mar. 29	2596	657	38	1416
Electric station-indicating apparatus	W. L. Bundy	358,645	Mar. 1	333	80, 81	38	965
Electric switch	P. Lange	366,407	July 12	890	240	40	176
Electric switch	R. Macrae and C. F. Tavener	366,634	July 12	1215	324	40	240
Electric switch	A. Swan	362,469	May 3	562	156	39	582
Electric switch	E. Thomson	363,183	May 17	1580	416	39	785
Electric test system	J. W. Frost	367,205	July 26	1985	{ 536 537 }	{ 40 40 }	400
Electric-wire conduit	J. Lynch	371,202	Oct. 11	667	170	41	139
Electric wire or cable distributing system	J. F. Munsie	356,153	Jan. 18	1239	328	38	252
Electric wires and cables. Conduit for	G. D. Sutton	367,768	Aug. 2	629	169	40	569
Electric wires. Conductor for	J. Grant	371,681	Oct. 18	1339	346	41	280
Electric wires. Conduit for	G. D. Sutton	355,798	Jan. 11	702	183	38	145
Electric wires. Coupling for	H. Howson	355,611	Jan. 4	411	113	38	82
Electric wires in underground conduits. Sectional/ draw-rod for placing	W. H. Hart	373,289	Nov. 15	1526	{ 403 404 }	{ 41 41 }	769
Electric wires. Railway-rail and conduit for	J. T. Nulty	372,273	Oct. 25	2228	571	41	458
Electric wires. Underground system for	J. P. Davis	374,458	Dec. 6	413	{ 107 108 }	{ 41 41 }	1125
Electrical accumulator or storage-battery	C. P. Elieson	358,341	Feb. 22	2303	608	38	874
Electrical alarm	J. A. Galvin	366,212	July 12	633	172	40	128
Electrical appliances. Connector for	C. G. Perkins	362,108	May 3	83	25	39	489
Electrical apparatus. Contact-piece for	M. M. M. Slattery	356,796	Feb. 1	77	22	38	438
Electrical battery	T. W. Bryant	368,806	Aug. 23	2118	561	40	879
Electrical call-box	G. S. Nickum	356,418	Jan. 18	1602	421	38	320
Electrical call system	J. D. Peachey	356,850	Feb. 1	151	40, 41	38	450
Electrical circuit	J. F. Mehren	357,726	Feb. 15	1444	378	38	708
Electrical-circuit closer	G. E. Thaxter	362,192	May 3	183	55	39	509
Electrical circuit-closer	M. M. Welch	375,238	Dec. 20	1542	404	41	1363
Electrical circuits. Safety-catch for	W. J. Hammer	368,765	Aug. 23	2061	546	40	869

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Electrical combination-lock	C. J. Kintner	372,029	Oct. 25	1862	481	41	390
Electrical communicating system	A. G. Holcombe	371,940	Oct. 25	1725	{ 446 447 }	{ 41 41 }	366
Electrical conductor	H. F. Campbell	369,394	Sept. 6	117	34	40	1055
Electrical conductor	L. Daft	361,676	Apr. 26	1848	479	39	370
Electrical conductor	E. H. Johnson	359,726	Mar. 22	1919	487	38	1288
Electrical conductor	J. Kruesi	366,174	July 5	574	154	40	108
Electrical conductor or cable. Lead-covered	G. L. Kitson	364,178	May 31	3002	779	39	1070
Electrical conductors. Branch-conduit for	J. M. Clokey	361,265	Apr. 19	1266	{ 323 324 }	{ 39 39 }	252
Electrical conductors. Conduit for	G. D. Holt	374,792	Dec. 13	891	233	41	1229
Electrical conductors. Connecting device for	W. J. Hammer	368,764	Aug. 23	2060	546	40	868
Electrical conductors. Duct-conduit for	G. D. Holt and W. T. McGinty	358,778	Mar. 1	522	128	38	1000
Electrical conductors. Machine for making seamless lead-covered	G. L. Kitson	364,177	May 31	3000	779	39	1070
Electrical conductors. Manufacture of	J. J. Williamson	369,144	Aug. 30	2590	688	40	981
Electrical conductors. Means for preventing induction on	S. C. Drew	371,557	Oct. 18	1159	302	41	244
Electrical conductors. Operating with	J. E. Watson	371,531	Oct. 11	1119	292	41	228
Electrical conductors. Underground conduit for	G. W. Cook	374,348	Dec. 6	256	68	41	1095
Electrical conduits. Laying continuous	A. C. Chenoweth	366,457	July 12	946	258	40	188
Electrical conduits. Making and cooling joints for	B. Williams	358,095	Feb. 22	1961	518	38	809
Electrical contact-changer	D. Davis, Jr.	365,585	June 28	2038	531	39	1499
Electrical converter	A. Schmid	366,347	July 12	818	220	40	161
Electrical converter	G. Westinghouse, Jr.	366,362	July 12	835	224	40	165
Electrical converter	G. Westinghouse, Jr.	366,544	July 12	1070	291	40	212
Electrical-current indicator	J. F. Kelly	372,851	Nov. 8	863	230	41	638
Electrical-current indicator	P. Lange	362,451	May 3	533	148	39	577
Electrical cut-out	N. F. Stoddard	369,889	Sept. 13	810	215	40	1197
Electrical cut-out device	J. C. Chamberlain	375,476	Dec. 27	1861	486	41	1432
Electrical distribution	W. B. Harvey	357,280	Feb. 8	784	203	38	575
Electrical distribution	J. W. Howell	372,797	Nov. 8	784	{ 210 211 }	{ 41 41 }	625
Electrical distribution	J. W. Howell	372,798	Nov. 8	787	211	41	625
Electrical distribution	J. W. Howell	372,799	Nov. 8	789	211	41	626
Electrical distribution and conversion	W. Stanley, Jr.	372,944	Nov. 8	993	268	41	662
Electrical distribution and conversion. System of	W. Stanley, Jr.	372,943	Nov. 8	990	268	41	662
Electrical distribution apparatus. Cut-out for	M. M. M. Slattery	375,014	Dec. 20	1233	322	41	1302
Electrical distribution. Automatic circuit-controlling apparatus for systems of	G. Westinghouse, Jr.	373,036	Nov. 8	1142	305	41	689
Electrical distribution. Conduit for	T. Wallace	371,111	Oct. 4	539	137	41	107
Electrical distribution. System of	H. M. Byllesby	373,009	Nov. 8	1099	293	41	681
Electrical distribution. System of	T. A. Edison	365,978	July 5	314	83	40	59
Electrical distribution. System of	T. A. Edison	369,280	Aug. 30	2762	{ 737 738 }	{ 40 40 }	1016
Electrical distribution. System of	T. A. Edison	369,439	Sept. 6	177	51	40	1065
Electrical distribution. System of	T. A. Edison	369,441	Sept. 6	179	51, 52	40	1066
Electrical distribution. System of	T. A. Edison	369,442	Sept. 6	182	52	40	1066
Electrical distribution. System of	T. A. Edison	369,443	Sept. 6	183	52	40	1067
Electrical distribution. System of	E. W. Rice, Jr.	372,330	Nov. 1	66	20	41	484
Electrical distribution. System of	F. Van Rysselberghe	360,492	Apr. 5	139	34	39	27
Electrical distribution. System of	F. A. Wessel	370,434	Sept. 27	1620	432	40	1362
Electrical distribution. System of	G. Westinghouse, Jr.	373,035	Nov. 8	1141	305	41	688
Electrical distribution. System of	G. Westinghouse, Jr.	373,037	Nov. 8	1144	306	41	689
Electrical distribution. System or circuit for	H. M. Byllesby and O. B. Shallenberger	366,376	July 12	855	230	40	169
Electrical elevator	N. P. Otis	356,496	Jan. 25	1718	449	38	351
Electrical energy. Apparatus for the transmission of	G. Kornmüller	371,331	Oct. 11	841	216	41	172
Electrical energy into mechanical force. System of conversion of	H. M. Paine	363,669	May 24	2269	589	39	926
Electrical indicator	W. H. Chapman and B. C. Donahue	355,382	Jan. 4	117	32	38	25
Electrical indicator	M. Waddell	371,720	Oct. 18	1400	362	41	294
Electrical matting	A. H. Freeman	363,290	May 17	1720	450	39	811
Electrical power. Apparatus for distributing	E. A. Sperry	361,843	Apr. 26	2086	543	39	412
Electrical purposes. Manufacturing carbons for	W. L. Voelker	356,020	Jan. 11	1032	271	38	209
Electrical regulation. System of	W. Stanley, Jr.	372,942	Nov. 8	989	267	41	662
Electrical resistance	W. H. Knight	368,596	Aug. 23	1815	483	40	823
Electrical resistance-board	I. W. Colburn	372,012	Oct. 25	1826	473	41	384
Electrical resistance-coil	C. D. Baker	368,804	Aug. 23	2112	559	40	878
Electrical signal-coupler. Automatic	J. S. Capers	357,165	Feb. 1	627	161	38	537
Electrical signal device	W. Hand, M. C. Wright, and F. A. Pocock	357,922	Feb. 15	1710	446	38	758
Electrical signals. Apparatus for transmitting and receiving	M. Deprez and B. Abdank-Abakanowicz	372,404	Nov. 1	176	50	41	503
Electrical subway	R. A. Denison	355,867	Jan. 11	804	211	38	163
Electrical switch	W. J. Hammer	363,334	May 17	1783	467	39	823
Electrical synchronous escapement	J. F. McLaughlin	359,805	Mar. 22	2048	519	38	1310
Electrical transmission of power	T. A. Edison	370,125	Sept. 20	1183	313	40	1271
Electrical transmission of power	T. A. Edison	370,126	Sept. 20	1184	313	40	1271
Electrical transmission of power	T. A. Edison	370,127	Sept. 20	1184	313	40	1271
Electrical transmission of power	T. A. Edison	370,128	Sept. 20	1185	313	40	1272
Electrical transmission of power	T. A. Edison	370,129	Sept. 20	1186	314	40	1272
Electrical transmission of power	T. A. Edison	370,130	Sept. 20	1187	314	40	1272
Electrical transmission of power	T. A. Edison	370,131	Sept. 20	1188	314	40	1273
Electricity. Apparatus for measuring	J. Cauderay	365,792	July 5	40	{ 11 12 13 }	{ 40 40 40 }	9
Electricity. Apparatus for measuring	J. Cauderay	366,202	July 12	615	{ 168 169 }	{ 40 40 }	124
Electricity. Apparatus for measuring	G. Forbes	366,824	July 19	1477	394	40	295
Electricity. Means for individually controlling a number of devices by	C. Baxter	367,332	July 26	2183	587	40	436
Electro-dynamic motor	C. J. Van Depoele	362,798	May 10	1046	284	39	675
Electro-magnetic arresting and releasing mechanism	I. H. Farnham	375,544	Dec. 27	1955	509	41	1450
Electro-magnetic brake	G. F. Card	357,576	Feb. 15	1219	321	38	668

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Electro-magnetic brake apparatus	G. T. Woods	371,655	Oct. 18	1293	336	41	271
Electro-magnetic brake-circuits. Governor for	G. F. Card	369,917	Sept. 13	851	225	40	1204
Electro-magnetic cut-out	F. H. Wilmarth	355,739	Jan. 11	617	162	38	131
Electro-magnetic motor	W. H. Darling and L. Bock, Jr.	357,374	Feb. 8	905	238	38	599
Electro-magnetic motor	H. M. Paine	366,021	July 5	378	102	40	71
Electro-magnetic-motor regulator	W. L. Stevens	355,729	Jan. 11	603	157	38	128
Electro-mechanical brake	G. T. Woods	368,265	Aug. 16	1355	357	40	724
Electro-mechanical movement	H. Van Hoevenbergh	374,883	Dec. 13	1019	266	41	1254
Electro-medical apparatus	J. S. Muir	374,747	Dec. 13	822	216	41	1217
Electro-pneumatic-brake systems. Coupling for	J. F. Carpenter	370,605	Sept. 27	1885	500	40	1410
Electro-pneumatic mechanical movement	H. L. Roosevelt	375,001	Dec. 20	1215	317	41	1299
Electro-therapeutic apparatus	F. J. Kneuper	372,808	Nov. 8	804	215	41	628
Electrode and shield. Cautey	D. H. Goodwillie	359,506	Mar. 15	1563	399	38	1206
Electrode for forming clots in varicose veins	J. R. Hamilton	373,399	Nov. 15	1700	450	41	801
Electrodes. Binding-clamp for battery-	H. J. Brewer	367,956	Aug. 9	908	246	40	632
Electrolyte	A. C. Tichenor	363,562	May 24	2119		39	897
Electromotor and dynamo-electric machine	W. Main	373,146	Nov. 15	1308	347	41	730
Electrotype and stereotype plates. Metallic print- ing-block for	J. Fahnestock	356,993	Feb. 1	348	92, 93	38	487
Electrotypes. Apparatus for backing	R. Gniewitz	369,706	Sept. 13	545	150	40	1148
Electrotypes. Blackleading matrices for	E. A. Blake	362,927	May 17	1224	326	39	714
Electrotyping apparatus. Connection-hanger for	O. S. Fertig	360,672	Apr. 5	395	100	39	74
Elevated way	F. Müller	372,381	Nov. 1	147	43	41	497
Elevating-bolt	F. Prinz	374,754	Dec. 13	832	218	41	1218
Elevating device	S. J. Linder	370,796	Oct. 4	63	16	41	14
Elevator:							
See Bucket-elevator. Hydraulic elevator.							
Chain elevator. Liquid-elevator.							
Coal-elevator. Passenger-elevator.							
Electrical elevator. Pneumatic elevator.							
Grain-elevator. Portable elevator.							
Harvester-elevator. Safety-elevator.							
Hay-elevator. Straw-elevator.							
Hay or straw eleva- Sucker-rod elevator.							
tor. Wagon-elevator.							
Hod-elevator. Water-elevator.							
Elevator	H. Albert	360,504	Apr. 5	154	38, 39	39	29
Elevator	N. Beckwith	372,107	Oct. 25	1981	509	41	411
Elevator	G. B. Bergen	360,270	Mar. 29	2807	713	38	1457
Elevator	W. F. Crane and G. H. Reynolds	368,756	Aug. 23	2047	542	40	866
Elevator	J. Dalton	371,437	Oct. 11	995	259	41	202
Elevator	G. M. Davis	363,121	May 17	1498	397	39	768
Elevator	C. W. Dwell	360,800	Apr. 5	567	148	39	107
Elevator	A. Fitts	365,806	July 5	67	20	40	14
Elevator	V. Gelineau	373,285	Nov. 15	1521	402	41	768
Elevator	G. W. Hurley	355,397	Jan. 4	137	37	38	28
Elevator	F. G. Johnson	367,046	July 26	1761	475	40	358
Elevator	A. Miles	371,207	Oct. 11	671	171	41	140
Elevator	A. C. Newton	367,226	July 26	2030	547	40	408
Elevator	C. G. Otis	369,297	Aug. 30	2793	745	40	1021
Elevator	A. G. Page	362,653	May 10	840	229	39	636
Elevator	A. G. Page	362,654	May 10	841	229	39	636
Elevator	W. Z. Ransom	375,385	Dec. 27	1739	456	41	1408
Elevator	E. Schollan and T. Kavanaugh, Jr.	364,863	June 14	952	251	39	1273
Elevator	H. F. Wallmann	373,114	Nov. 15	1256	333	41	721
Elevator	G. A. Weld	355,427	Jan. 4	175	46	38	35
Elevator and fire-escape	C. Haas	373,587	Nov. 22	1990	529	41	867
Elevator attachment	W. E. Nickerson	357,938	Feb. 15	1735	453	38	762
Elevator-boot	J. M. Dodge	355,514	Jan. 4	282	75	38	57
Elevator-brake	R. L. Teed	375,396	Dec. 27	1752	460	41	1411
Elevator-bucket	J. Chivill	371,549	Oct. 18	1151	300	41	242
Elevator-cable lock	W. S. Morton	356,149	Jan. 18	1234	327	38	251
Elevator-cages. Automatic bell-alarm for	J. H. Flaughner and A. B. Scott	356,461	Jan. 25	1667	436	38	341
Elevator-chain	G. Lauder	375,366	Dec. 27	1714	449	41	1404
Elevator-cups to belts. Means for securing glass	L. Rappaport	372,329	Nov. 1	65	20	41	484
Elevator-doors. Attachment for	E. P. Walker	357,430	Feb. 8	983	259	38	613
Elevator-gate	A. U. Grummann	366,625	July 12	1201	321	40	237
Elevator-gate	E. F. Hardin	374,739	Dec. 13	813	214	41	1215
Elevator-gate. Automatic	G. T. Fallis	358,654	Mar. 1	350	84	38	968
Elevator-gates. Operating	W. Maus	362,761	May 10	1001	271	39	666
Elevator hatchway-gate	T. Braden	361,204	Apr. 12	1183	299	39	224
Elevator-indicator	Q. N. Evans	360,518	Apr. 5	187	45	39	37
Elevator-indicator	S. Evans and T. J. Davis	368,822	Aug. 23	2137	566	40	883
Elevator-lock	T. F. Morrin	365,088	June 21	1287	340	39	1344
Elevator safety attachment	K. E. Kritch	360,776	Apr. 5	538	139	39	101
Elevator safety-hatch	E. L. Cole	372,744	Nov. 8	679	186	41	608
Elevator safety-stop	F. C. Roberts	360,483	Apr. 5	126	30	39	24
Elevator-shafts and their approaches. Construction of	N. A. Fisher	372,611	Nov. 1	481	130	41	560
Elevator-stop	F. C. Cannon	374,396	Dec. 6	317	84	41	1107
Elevator systems. Electric regulator for hydraulic	L. Daft	372,361	Nov. 1	114	35	41	492
Elevator trap-doors. Device for operating	A. G. Page	374,693	Dec. 13	746	196	41	1202
Elevator-valves. Electrical device for operating	C. G. Otis	365,018	June 14	1172	307	39	1313
Elevator-wells. Door-guard for	O. L. Davis	366,463	July 12	952	260	40	190
Elevators. Automatic safety appliance for	E. J. Shaw	363,302	May 17	1737	455	39	814
Elevators. Brake apparatus for	C. W. Baldwin	358,322	Feb. 22	2279	602	38	869
Elevators. Device for controlling the operation of	G. H. Reynolds	360,248	Mar. 29	2770	703	38	1450

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Elevators. Electric valve-operating mechanism for	G. H. Reynolds.....	361,778	Apr. 26	1987	518	39	394
Elevators. Electric valve-operating mechanism for	G. H. Reynolds.....	361,780	Apr. 26	1994	519	39	394
Elevators. Electrical safety device for	R. M. Curtiss. (Reissue).....	10,838	May 31	3045	795	39	1078
Elevators. Means for controlling	J. I. Veeder.....	372,280	Oct. 25	2238	574	41	460
Elevators. Means for electrically controlling the operation of	G. H. Reynolds.....	361,779	Apr. 26	1992	518	39	394
Elevators. Pneumatic valve-operating mechanism for hydraulic	W. De Brock.....	367,794	Aug. 9	674	{ 182 } 183	{ 40 } 40	586
Elevators. Safety attachment for	L. Senior.....	367,450	Aug. 2	125	36	40	475
Elevators. Safety-catch for	J. W. and B. A. Taylor.....	366,745	July 19	1373	367	40	277
Elevators. Safety device for	H. Olsen.....	368,848	Aug. 23	2177	{ 577 } 578	{ 40 } 40	891
Elixir. Anti-neuralgic	D. F. Hamlink.....	366,093	July 5	466	.....	40	88
Ellipsograph	S. Harding.....	364,758	June 14	790	209	39	1244
Elliptic spring	T. B. Chase.....	365,968	July 5	301	79	40	57
Embalming-table	N. T. Shaw.....	355,476	Jan. 4	240	63	38	49
Embalming-table	J. Sieber.....	364,051	May 31	2821	732	39	1036
Embankment-protector	A. M. Kanters.....	360,225	Mar. 29	2737	693	38	1443
Embossing-block	G. Marchetti.....	362,169	May 3	160	46, 47	39	504
Embossing leather, paper, &c. Machine for	J. M. Baker.....	366,755	July 19	1388	371	40	279
Embossing paper, wood, &c. Machine for	J. P. Jamison.....	374,253	Dec. 6	118	30	41	1069
Embossing-tool	J. W. Hyatt.....	358,039	Feb. 22	1873	496	38	794
Embroidered fabric	E. Cornely.....	370,246	Sept. 20	1343	359	40	1302
Embroidering. Combined presser-foot and guide for use in	J. F. Atherton.....	363,573	May 24	2134	553	39	900
Embroidering-machine	E. Cornely.....	361,747	Apr. 26	1945	506	39	386
Embroidering-machine	S. H. Rosenberg and J. R. Bradley.....	365,635	June 28	2100	547	39	1510
Embroidering-machines. Fabric-holding frame for	J. J. Ebneter.....	369,105	Aug. 30	2550	{ 677 } 678	{ 40 } 40	972
Embroidery-frame	C. Pease.....	374,623	Dec. 13	655	171	41	1183
Embroidery-frame	J. Sanders.....	372,707	Nov. 8	623	169	41	598
Embroidery-frame	C. Schaubel.....	362,230	May 3	236	68	39	519
Embroidery-machine	T. Keith.....	369,861	Sept. 13	760	204	40	1187
Embroidery-patterns. Transfer of	G. A. Greenleaf.....	364,918	June 14	1029	269	39	1288
Emery. Manufacture of	W. Ihne.....	368,769	Aug. 23	2066	.....	40	870
Emery-wheels. Dresser for	W. W. Brisben.....	368,062	Aug. 9	1052	281	40	659
Emery-wheels. Tool for dressing	A. E. Convers.....	362,360	May 3	401	111	39	552
Emery-wheels. Tool for dressing	H. K. Forbis.....	367,287	July 26	2425	572	40	424
Employé's recorder	B. F. Merritt.....	375,087	Dec. 20	1338	{ 349 } 350	{ 41 } 41	1322
Emulsion to protect fruit-trees	T. W. Smith.....	374,011	Nov. 29	2591	.....	41	993
Enamel. Coating wood, paper, &c., with impervious	J. A. Pond.....	372,927	Nov. 8	969	.....	41	658
Enameled surface for carriages and the like	M. B. Church.....	373,014	Nov. 8	1108	.....	41	682
Enameled ware	E. M. Thompson.....	355,486	Jan. 4	252	66	38	51
Enameling photographs and other prints	J. P. Phelps.....	360,909	Apr. 12	730	.....	39	142
End-gage or siding-jack	C. Dunbar.....	360,088	Mar. 29	2516	640	38	1403
End-gate	C. F. Bassett.....	361,854	Apr. 26	2105	546	39	415
End-gate	J. B. Bunten.....	365,967	July 5	300	79	40	57
End-gate	F. B. Cunningham.....	361,749	Apr. 26	1947	507	39	386
End-gate	D. L. Funderburgh.....	369,283	Aug. 30	2768	739	40	1016
End-gate	E. Haake.....	365,808	July 5	70	20	40	15
End-gate	W. D. Hunt.....	366,107	July 5	482	130	40	91
End-gate	T. G. Mandt.....	355,542	Jan. 4	321	86	38	65
End-gate	J. T. Snoddy and P. J. Lang.....	368,901	Aug. 23	2247	598	40	906
End-gate fastener	J. L. Hanmer.....	365,992	July 5	333	88	40	63
End-gate. Wagon	M. Davis.....	363,609	May 24	2182	566	39	909
End-gate. Wagon	S. C. Dix.....	357,069	Feb. 1	462	123	38	508
End-gate. Wagon	F. D. Frisbie.....	357,985	Feb. 15	1803	473	38	775
End-gate. Wagon	H. C. Higgins.....	355,528	Jan. 4	301	80	38	61
End-gate. Wagon	J. W. Olson.....	366,734	July 19	1358	364	40	274
End-gate. Wagon	J. Phillips and H. D. Alexander.....	361,370	Apr. 19	1412	364	39	278
End-gate. Wagon	J. T. Snoddy.....	367,676	Aug. 2	485	134	40	542
End-gate. Wagon	J. T. Snoddy.....	369,819	Sept. 13	694	{ 187 } 188	{ 40 } 40	1175
End-gate. Wagon	J. Stone.....	372,991	Nov. 8	1063	284	41	675
End-gate. Wagon	R. R. Tichenor and P. Walker.....	369,894	Sept. 13	816	217	40	1198
End-gate. Wagon	M. S. Tyler.....	361,971	Apr. 26	2281	593	39	446
End-gate. Wagon	J. T. Wiley.....	360,072	Mar. 29	2495	634	38	1399
Engine:							
See Caloric-engine.	Paper-pulp engine.						
Carding-engine.	Paper-pulp or rag engine.						
Compound engine.	Pendulum or vibrating-						
Dental engine.	piston engine.						
Direct-acting engine.	Piston-engine.						
Duplex engine.	Pneumatic engine						
Fire-engine.	Portable engine.						
Gas-engine.	Pressure-engine.						
Gas and oil engine.	Pulp-beating engine.						
Gas marine engine.	Pumping-engine.						
Gas-motor engine.	Quadruple expansion-en-						
Gas or gasoline en-	gine						
gine.	Road-engine.						
Hot-air engine.	Rose-engine.						
Hydraulic engine.	Rotary engine.						
Hydro-pneumatic	Steam-engine.						
engine.	Steam steering-engine.						
Locomotive-en-	Traction-engine.						
gine.	Vibrating engine.						
Multi-cylinder en-	Water-engine.						
gine.	Wind-engine.						
Oscillating engine.							
Engine	D. J., G. M., and E. W. Dokey.....	366,079	July 5	448	121	40	84
Engine	P. F. Hübner.....	356,538	Jan. 25	1771	461	38	360
Engine	J. A. Lidback.....	360,353	Mar. 29	2915	742	38	1476
Engine	A. Rigg.....	368,424	Aug. 16	1569	419	40	767

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Engine.....	S. Robinson.....	363,085	May 17	1443	{ 382 383 }	{ 39 }	757
Engine attachment.....	J. S. Brown.....	367,784	Aug. 9	664	179	40	584
Engine brake. Stationary.....	F. G. and J. R. Bisbee.....	358,534	Mar. 1	183	43	38	936
Engine-cylinders. Water-escape device for.....	A. L. Ide.....	362,629	May 10	799	219	39	629
Engine deriving its power from the expansion of air or gas.....	J. S. Baldwin and B. W. Bradford.....	355,634	Jan. 4	450	{ 122 123 }	{ 38 }	89
Engine-governing device.....	F. H. Ball.....	358,829	Mar. 8	605	{ 149 150 }	{ 38 }	1021
Engine-reversing gear.....	E. H. Whitney.....	366,905	July 19	1581	423	40	315
Engine-signal.....	J. C. Ricketson.....	374,322	Dec. 6	220	58	41	1087
Engines and dynamos. Means for connecting.....	A. W. Schleicher.....	367,241	July 26	2050	553	40	412
Engines. Compensating gear for road.....	J. G. Downie.....	374,663	Dec. 13	708	186	41	1194
Engines. Cut-off gear for.....	B. V. Nordberg.....	369,612	Sept. 6	416	{ 116 117 }	{ 40 }	1114
Engines. Device for aligning steam.....	C. E. Barnes.....	374,168	Dec. 6	12	3	41	1048
Engines. Device for draining the cylinders of.....	J. Briscoe.....	359,767	Mar. 22	1992	504	38	1300
Engines. Igniting apparatus for gas and petroleum.....	M. V. Schiltz and E. Quack.....	366,346	July 12	815	219	40	161
Engines. Operating direct-acting steam pumping.....	L. D'Auria.....	367,602	Aug. 2	359	102	40	520
Engines. Speed-regulating device for.....	C. W. Baldwin.....	368,443	Aug. 16	1599	{ 427 428 }	{ 40 }	773
Engines. Steering-gear for traction.....	R. P. Thompson.....	374,016	Nov. 29	2596	697	41	994
Engines. Wrist-pin for.....	F. C. Chase.....	355,920	Jan. 11	888	232	38	180
Engraver's tool or scraper.....	A. Bonniol.....	366,297	July 12	745	202	40	148
Engraving-machine.....	V. L. Ourdan and C. A. Kolb.....	374,492	Dec. 6	460	119	41	1134
Engraving-machine for multiple combinations.....	A. Güdel and A. Chopard.....	375,705	Dec. 27	2188	{ 569 570 }	{ 41 }	1492
Envelope.....	H. W. Dryden.....	355,305	Jan. 4	18	6	38	6
Envelope.....	E. R. Procter.....	371,217	Oct. 11	687	176	41	144
Envelope and letter-sheet. Combined.....	J. K. Reid.....	365,406	June 28	1759	456	39	1445
Envelope and tag. Combined.....	M. L. and G. B. Whitney.....	366,054	July 5	419	114	40	79
Envelope-cutting mechanism.....	H. J. Wickham.....	371,400	Oct. 11	942	243	41	191
Envelope gumming and drying apparatus.....	C. Wolf.....	361,106	Apr. 12	1022	258	39	195
Envelope. Letter.....	G. L. Jaeger.....	365,260	June 21	1537	401	39	1390
Envelope. Letter-sheet.....	G. P. Herndon.....	372,752	Nov. 8	689	190	41	610
Envelope-machine.....	O. E. Davidson.....	374,523	Dec. 6	505	{ 131 132 }	{ 41 }	1143
Envelope-machine.....	A. A. Rheutan.....	370,890	Oct. 4	217	55	41	43
Envelope-machine.....	A. A. Rheutan.....	370,969	Oct. 4	348	86	41	69
Envelope-machine.....	F. H. Richards.....	364,132	May 31	2938	{ 763 764 }	{ 39 }	1058
Envelope-machines. Band mechanism for.....	F. H. Richards.....	364,040	May 31	2808	{ 727 728 729 }	{ 39 }	1033
Envelope-machines. Gum-box for.....	F. H. Richards.....	366,186	July 5	592	159	40	112
Envelope-moistening instrument.....	H. Detamblé.....	356,575	Jan. 25	1830	479	38	372
Envelope or paper bag.....	D. Dalziel.....	359,137	Mar. 8	1032	268	38	1101
Envelope. Reversible sample.....	G. Doughtney.....	358,967	Mar. 8	813	205	38	1059
Envelope. Safety.....	L. P. Taylor.....	374,913	Dec. 13	1073	280	41	1264
Envelope sticker. Return.....	T. Weaver.....	365,890	July 5	186	47	40	37
Envelopes and similar receptacles. Machine for making.....	C. J. Hasbrouck.....	370,868	Oct. 4	173	46	41	34
Envelopes. Banding.....	F. H. Richards.....	361,548	Apr. 19	1640	425	39	323
Envelopes. Clasp for sample.....	P. H. Edwards.....	364,501	June 7	418	113	39	1167
Envelopes, &c. Device for securing.....	J. M. Eder.....	362,730	May 10	941	256	39	656
Envelopes, &c. Fastener for.....	P. E. Gonon.....	368,763	Aug. 23	2059	545	40	868
Envelopes or other articles. Apparatus for applying postage stamps, adhesive labels, and the like to.....	E. F. Ede and P. De Bondini.....	366,574	July 12	1124	301	40	224
Eraser.....	C. C. Dudley.....	357,146	Feb. 1	600	154	38	531
Eraser. Blackboard.....	J. S. Lowe.....	366,674	July 19	1275	340	40	258
Eraser. Blackboard.....	J. Travis.....	365,356	June 21	1674	437	39	1417
Eraser. Blackboard.....	J. Travis.....	373,032	Nov. 8	1136	304	41	687
Eraser. Fluid ink.....	J. W. Tallmadge.....	358,901	Mar. 8	729	.....	38	1043
Eraser-holder.....	O. Mussinan, Jr.....	368,159	Aug. 9	1182	316	40	684
Eraser. Ink.....	R. M. Swinburne.....	365,551	June 28	1979	516	39	1488
Eraser, polisher, and stamp. Combined.....	M. H. Kerner and D. J. Brown.....	363,469	May 24	1978	516	39	868
Eraser. Slate.....	J. A. Kienardt.....	371,589	Oct. 18	1205	314	41	253
Escape. Carriage.....	C. H. Averborg.....	366,365	July 12	838	225	40	166
Escapement-wheel.....	G. S. Heath and A. F. Champlin.....	361,945	Apr. 26	2231	581	39	439
Etching zinc and other metal plates.....	L. W. Kipp.....	362,974	May 17	1294	.....	39	727
Ether. Production of a new ethyl.....	R. Gnehm.....	361,690	Apr. 26	1867	.....	39	373
Ethers from petroleum. Making.....	E. Schaal.....	366,885	July 19	1557	.....	40	311
Ethers. Manufacture of resin-acid.....	E. Schaal.....	368,494	Aug. 16	1680	.....	40	787
Evaporating apparatus.....	A. Miller.....	357,404	Feb. 8	949	250	38	607
Evaporating apparatus. Vacuum.....	J. H. Hancock.....	357,481	Feb. 8	1060	280	38	628
Evaporating in closed vessels.....	A. Miller.....	372,079	Oct. 25	1947	502	41	404
Evaporating-pans. Coil for heating.....	G. A. Daudt.....	364,908	June 14	1017	266	39	1286
Evaporator: See Fruit-evaporator.							
Evaporator.....	R. Goodson.....	365,515	June 28	1927	501	39	1477
Evaporator.....	W. F. Lambert.....	357,775	Feb. 15	1526	397	38	723
Evaporator.....	S. W. Lowell.....	365,752	June 28	2282	593	39	1543
Evaporator.....	H. L. Strong.....	361,379	Apr. 19	1423	368	39	280
Evaporator and furnace.....	W. P. Stallcup.....	367,120	July 26	1871	506	40	377
Evener-coupling for vehicle-poles.....	W. J. Edwards.....	374,294	Dec. 6	169	44	41	1079
Evener. Five-horse.....	R. L. Ray.....	364,435	June 7	318	87	39	1149
Evener. Four-horse.....	E. R. Bird.....	363,359	May 24	1815	477	39	838
Evener. Four-horse.....	J. B. Scribner.....	367,671	Aug. 2	476	131	40	541
Excavating and grading machine.....	E. Remillard.....	360,539	Apr. 5	213	52, 53	39	41
Excavating apparatus. Odorless.....	R. A. McCauley.....	373,938	Nov. 29	2486	667	41	972
Excavating device.....	A. M. Woolfolk.....	360,548	Apr. 5	227	57, 58	39	44
Excavating tunnels, subways, and shafts. Apparatus for.....	J. H. Greathead.....	360,959	Apr. 12	809	208	39	156
Excavator.....	G. Cox.....	375,132	Dec. 20	1408	366	41	1334
Excavator.....	A. B. Bowers.....	372,956	Nov. 8	1011	272	41	665

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Excavator	J. K. Howe	362,083	May 3	43	13, 14	39	481
Excavator	H. W. Roop	361,895	Apr. 26	2167	561	39	427
Excavator	H. W. Roop	370,970	Oct. 4	349	86, 87	41	69
Excavator. Hydraulic	A. O. Bostrom	363,796	May 31	2454	{ 637 638 }	39	966
Excavator. Hydraulic	R. H. Elliott	371,561	Oct. 18	1165	{ 303 304 }	41	245
Excavator. Submarine	J. and P. Wagner	372,582	Nov. 1	441	118	41	553
Excavator. Wheel	F. Plumb	357,939	Feb. 15	1735	453	38	762
Excelsior. Machine for making	J. A. Adams	359,657	Mar. 22	1820	463	38	1270
Exercising-machine	W. L. Coop	363,599	May 24	2168	562	39	906
Exercising-machine	A. H. Howard	356,126	Jan. 18	1201	319	38	246
Exercising-machine	E. W. Murphy	372,272	Oct. 25	2226	571	41	458
Exercising-machine	R. Reach	368,111	Aug. 9	1118	297	40	671
Exercising-machine	R. Reach	374,496	Dec. 6	465	{ 120 121 }	41	1135
Exhibiting apparatus	W. T. Smith	358,897	Mar. 8	720	178	38	1041
Exhibiting apparatus. Automatic	T. Cooper	368,279	Aug. 16	1379	{ 363 364 }	40	729
Exhibiting communications. Automatic apparatus for	T. J. Hewson	372,536	Nov. 1	368	100	41	540
Exhibiting device	J. Modini	356,005	Jan. 11	1014	266	38	205
Exhibitor: See Wall-paper exhibitor.							
Exhibitor	E. O. Thompson and F. D. Kramer	362,124	May 3	100	31	39	492
Exhibitor. Dry-goods	J. W. Leas	365,526	June 28	1944	506	39	1482
Exhibitor. Dry-goods	A. J. Nichols	369,464	Sept. 6	212	59, 60	40	1073
Exhibitor. Shade	R. K. Slaughter	369,476	Sept. 6	223	63	40	1075
Expansive bit	C. E. Billings	360,990	Apr. 12	862	218	39	164
Expansion-drill	M. T. Chapman	370,046	Sept. 20	1063	281	40	1250
Expansion-joint	G. H. Benjamin	373,432	Nov. 22	1749	463	41	822
Expansion-joint	J. N. Pew	374,371	Dec. 6	287	76	41	1101
Expansion-wheel	A. A. Rose	359,098	Mar. 8	983	251	38	1091
Explosive	C. Roth	375,651	Dec. 27	2108		41	1478
Explosive	H. Schöneweg	371,376	Oct. 11	908		41	185
Explosive compound	E. Du Pont	363,887	May 31	2578		39	989
Explosive compound	L. G. Heusschen	374,740	Dec. 13	814		41	1215
Explosive compound	C. W. Volney	366,281	July 12	728		40	145
Explosives. Primer for igniting	L. Bagger	359,491	Mar. 15	1542	394	38	1202
Extensible seat	O. M. Miller	371,091	Oct. 4	510	129	41	101
Extension-chair	A. H. G. Elten	362,066	May 3	20	6	39	476
Extension-screen	E. L. Gray and G. D. Wright	355,605	Jan. 4	399	108	38	80
Extension-table	F. Bringezu	362,603	May 10	755	{ 208 209 }	39	621
Extension-table	H. J. Durgin	361,271	Apr. 19	1274	{ 326 327 }	39	254
Extension-table	C. Gebhardt	361,688	Apr. 26	1864	484	39	373
Extension-table	J. Grube	355,817	Jan. 11	730	{ 190 191 }	38	150
Extension-table	G. Hebebrand	373,068	Nov. 15	1190	317	41	708
Extension-table	F. W. Nye	355,945	Jan. 11	930	243	38	189
Extension-table	G. Schmitt	359,817	Mar. 22	2065	523	38	1314
Extension-table	T. Skinner	373,316	Nov. 15	1564	{ 414 415 }	41	777
Extraction apparatus	W. H. Allen	364,883	June 14	980	257	39	1279
Extractor: See Bottle-stopper ex-tractor. Brush-extractor. Bung-extractor. Cork-extractor. Feed-water grease-extractor.	Gruband stump extractor. Nail-extractor. Root-extractor. Staple-extractor. Stump-extractor. Tent-pin extractor. Tobacco-plug extractor.						
Extracts. Process of and apparatus for clarifying	A. Morand	365,087	June 21	1284	340	39	1344
Eye-bars. Die and connection for making	J. F. Kingsley	357,833	Feb. 15	1597	414	38	737
Eye-bars. Die for making	J. F. Kingsley	369,014	Aug. 30	2412	640	40	946
Eye-bars. Machinery for the manufacture of	A. and F. Schneiderlochner	361,188	Apr. 12	1153	{ 291 292 }	39	219
Eye-shade	B. B. Newell	371,348	Oct. 11	870	223	41	178
Eyeglass	M. C. Brackett	363,201	May 17	1606	421	39	789
Eyeglass-frame	A. A. Dreux	358,191	Feb. 22	2111	557	38	836
Eyeglass-holder	M. Riggs	366,345	July 12	815	219	40	161
Eyeglass holder or hook	W. J. Rand	374,702	Dec. 13	761	199	41	1205
Eyeglass or spectacle case	F. Shailer	361,724	Apr. 26	1912	496	39	380
Eyeglass or spectacle frame	J. J. Minster	369,544	Sept. 6	315	87	40	1094
Eyeglass or spectacle frame	D. O'Hara	359,173	Mar. 8	1075	280	38	1109
Eyeglasses	E. De Celles	359,852	Mar. 22	2135	537	38	1325
Eyeglasses	C. H. Farley	373,349	Nov. 15	1613	425	41	785
Eyeglasses	C. H. Farley	373,350	Nov. 15	1614	426	41	786
Eyeglasses	I. Fox	358,113	Feb. 22	1990	524	38	814
Eyeglasses	S. M. Ga Nun and G. F. Parsons	364,340	June 7	178	50	39	1122
Eyeglasses	E. B. Meyrowitz	368,226	Aug. 16	1303	344	40	713
Eyeglasses. Bow-spring for	J. F. White	365,496	June 28	1885	491	39	1469
Eyeglasses. Manufacture of blanks for	H. Lenfant	374,546	Dec. 6	547	142	41	1152
Eyeglasses. Manufacture of cases for	W. B. White	363,267	May 17	1689	442	39	806
Eyeglasses. Nose-rest for	S. Lubin, J. J. Frawley, and A. Abraham	356,410	Jan. 18	1592	418	38	319
Eyeglasses or spectacles	I. Fox	366,471	July 12	964	263	40	192
Eyelet-setting machine	E. B. Stimpson, Jr.	372,826	Nov. 8	825	220	41	632
Eyelet-tape	W. Pretty, Jr.	362,995	May 17	1318	350	39	732
Eyelets to articles of wearing-apparel. Attaching	A. P. McGraw	363,406	May 24	1875	492	39	849
Eyeletting-machine	C. A. Corman	368,875	Aug. 23	2208	{ 587 588 }	40	898

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Eyeletting-machine	L. C. Emerson	368,140	Aug. 9	1155	{ 307 308	{ 40	678
Eyeletting-machine	J. A. House	369,246	Aug. 30	2716	{ 722 723	{ 40	1006
Fabric:							
See Carpet fabric.	Metal fabric.						
Compound fabric.	Ornamental fabric.						
Double pile fabric.	Pattern-marked fabric.						
Dyed fabric.	Rubber fabric.						
Elastic fabric.	Seersucker fabric.						
Elastic or corded fabric.	Silk fabric.						
Embroidered fabric.	Textile fabric.						
Figured fabric.	Water-proof gossamer fabric.						
Knitted fabric.	Woven pile fabric.						
Fabric for carpet-lining, packing articles, &c.	G. Kelly	356,944	Feb. 1	277	76	38	472
Fabric for packing portable articles	J. S. Richardson	362,229	May 3	236	68	39	519
Fabric-holder	E. J. Crandall	371,035	Oct. 4	437	110	41	87
Fabric-turfing implement	J. Borton	370,309	Sept. 20	1428	383	40	1319
Fabric-turfing implement	R. L. Simons	358,490	Mar. 1	96	24	38	921
Fabrics and other sheet materials. Method of and } mechanism for testing }	S. D. Locke	360,103	Mar. 29	2547	{ 648 649	{ 38	1409
Fabrics. Apparatus for cutting and grooving	W. E. Daniels	357,583	Feb. 15	1229	323	38	670
Fabrics. Apparatus for treating	L. Bume	375,474	Dec. 27	1859	486	41	1432
Fabrics. Device for stretching, drying, and bleach- ing	T. Davis	371,038	Oct. 4	441	111	41	87
Fabrics from coarse long-staple wool or hair. Making	E. and E. Scheppers	362,317	May 3	343	-----	39	540
Fabrics. Machine for brushing	E. and J. McCreary	370,399	Sept. 27	1568	420	40	1353
Fabrics. Machine for plicating and packaging	P. H. Watson	359,584	Mar. 15	1708	{ 435 436 437	{ 38	1232
Fabrics. Machine for splitting double pile	R. Handy	368,829	Aug. 23	2147	569	40	885
Fabrics. Machine for turfing	C. W. Dikeman	362,368	May 3	410	113	39	554
Fan	S. Scheuer	361,187	Apr. 12	1152	290	39	219
Fan attachment	P. Murray, Jr. (Reissue)	10,815	Mar. 8	1173	305	38	1127
Fan attachment	J. M. Sellmayer	360,922	Apr. 12	746	196	39	145
Fan. Automatic	C. E. Pierce	370,653	Sept. 27	1953	517	40	1424
Fan. Blast or exhaust	M. Gregg	370,389	Sept. 27	1554	416	40	1350
Fan. Fly	W. R. Fowler	358,807	Mar. 1	562	140	38	1008
Fan or blower	T. E. Knauss	368,093	Aug. 9	1096	291	40	667
Fan or blower	S. J. Voden	366,535	July 12	1061	288	40	211
Fan. Revolving hand	E. Elefsen	357,072	Feb. 1	465	124	38	508
Fan. Rotary	R. B. Cissell	264,751	June 14	771	205	39	1241
Fan. Rotary	F. W. Ehrsam	357,912	Feb. 15	1698	442	38	755
Fan. Rotary	P. Murray, Jr	357,731	Feb. 15	1450	380	38	709
Fans. Adjustable hub for ventilating	G. P. Clark	367,595	Aug. 2	347	99	40	518
Fans. Machine for recording the revolutions of ven- tilating-	E. Bartl and F. Nichter	374,820	Dec. 13	931	{ 242 243	{ 41	1238
Fans. System of automatic	J. Sands	372,174	Oct. 25	2076	532	41	429
Fanning-mill	C. Altringer	357,261	Feb. 8	760	{ 197 198	{ 38	571
Fanning-mill	C. Altringer	375,524	Dec. 27	1919	503	41	1444
Fanning-mill	J. S. Constant	358,543	Mar. 1	193	45	38	938
Fanning-mill	I. H. Lamoreux	358,281	Feb. 22	2228	587	38	859
Fanning-mill	H. Summerfeld	359,944	Mar. 22	2271	511	38	1351
Fanning-mill	H. Summerfeld	359,945	Mar. 22	2272	511	38	1351
Fare-box	T. L. Beaman	357,755	Feb. 15	1489	{ 390 391	{ 38	716
Fare-box	T. L. Beaman	357,756	Feb. 15	1493	391	38	717
Fare-box	F. B. Brownell	371,418	Oct. 11	966	{ 250 251	{ 41	196
Fare-box	J. S. Capers	359,346	Mar. 15	1317	342	38	1160
Fare-box	W. T. Dryden	364,164	May 31	2984	775	39	1067
Fare-box	T. Ekroth	369,048	Aug. 30	2463	653	40	956
Fare-box	G. H. Goodrich	374,471	Dec. 6	430	112	41	1128
Fare-box	J. W. Greer	356,465	Jan. 25	1671	437	38	342
Fare-box and change-maker. Combined	J. L. Kail	370,261	Sept. 20	1362	{ 365 366 367	{ 40	1306
Fare-box. Change-making	R. E. L. Safely and W. J. Williams	374,851	Dec. 13	971	254	41	1245
Fare-box. Electrical	W. A. Crowds	357,372	Feb. 8	899	{ 237 238	{ 38	597
Fare-boxes. Detachable receptacle for	J. R. Wherry	368,502	Aug. 16	1693	{ 450 451	{ 40	790
Fare-boxes. Lighting device for	G. R. Brownrigg and J. Sutzin	361,860	Apr. 26	2117	548	39	418
Fare-boxes. Locking and delivering device for	A. Herzberg and A. W. Almqvist	360,692	Apr. 5	417	107	39	78
Fare-register	J. W. Meaker	357,725	Feb. 15	1438	{ 377 378	{ 38	707
Fare-register	J. W. Meaker	365,697	June 28	2191	572	39	1527
Fare-register	C. E. Pratt	357,229	Feb. 8	714	{ 183 184 185	{ 38	562
Fare-register	W. J. Rigney	362,538	May 10	656	{ 185 186	{ 39	605
Fare-register	W. J. Rigney	367,930	Aug. 9	864	{ 235 236	{ 40	624
Fare register and indicator	J. H. Patterson and I. P. Davis	362,176	May 3	167	49	39	505
Farm and garden implement	D. P. Hewitt	361,519	Apr. 19	1603	415	39	315
Farm-gate	A. C. Baumwart	363,108	May 17	1481	391	39	763
Farm-gate	J. Christensen	358,729	Mar. 1	457	111	38	989
Farm-gate	B. F. Ellis	357,275	Feb. 8	779	202	38	574
Farm-gate	G. G. Lee	367,415	Aug. 2	82	22	40	466
Farm-gate	M. H. Newville	372,760	Nov. 8	702	194	41	612
Farm-gate	P. Ramminger	361,449	Apr. 19	1516	392	39	298

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Farm-gate.....	N. G. Swift.....	356,178	Jan. 18	1268	334	38	258
Farm-gate.....	O. A. Williams.....	373,116	Nov. 15	1260	334	41	722
Farm-rake.....	A. C. Wait.....	375,401	Dec. 27	1758	461	41	1412
Farrier's tool.....	I. G. Pollard.....	366,605	July 12	1175	315	40	232
Fastener. Metallic.....	J. Felbel.....	359,671	Mar. 22	1836	466	38	1272
Fastening device.....	G. Lighthiser.....	369,348	Sept. 6	61	18	40	1045
Fastening device.....	J. L. Steffy.....	373,860	Nov. 29	2381	640	41	952
Fat from bones. Apparatus for extracting.....	W. Büttner.....	360,996	Apr. 12	874	221	39	165
Fatty bodies. Process of and apparatus for saponifying and decomposing.....	L. Rivière.....	362,856	May 10	1118	301	39	688
Fatty substances by electricity. Apparatus for purifying and separating.....	H. F. D. Schwahn.....	373,691	Nov. 22	2141	573	41	898
Faucet.....	G. W. Aldrich.....	374,725	Dec. 13	794	208	41	1211
Faucet.....	J. Deasey.....	358,021	Feb. 22	1849	489	38	789
Faucet.....	G. Grossman.....	370,780	Oct. 4	45	11	41	11
Faucet.....	M. O. Kupterle.....	371,509	Oct. 11	1095	285	41	223
Faucet.....	C. H. Loper.....	357,488	Feb. 8	1068	282	38	630
Faucet.....	H. Ogden.....	374,806	Dec. 13	911	238	41	1234
Faucet.....	W. B. Rodman.....	375,508	Dec. 27	1896	496	41	1439
Faucet. Ale or beer.....	W. H. Hovey.....	368,768	Aug. 23	2064	547	40	869
Faucet and automatic gas-valve.....	C. C. Morris.....	366,237	July 12	672	182	40	135
Faucet and connection. Bung.....	H. P. Gray.....	373,826	Nov. 29	2337	627	41	943
Faucet and filler for cans.....	H. H. Hull.....	357,319	Feb. 8	835	218	38	585
Faucet and filler for cans.....	H. H. Hull.....	364,821	June 14	891	235	39	1262
Faucet and nozzle for cans.....	G. W. Banker.....	365,563	June 28	2001	521	39	1493
Faucet apparatus.....	W. A. Babcock.....	374,232	Dec. 6	88	22	41	1063
Faucet. Beer.....	J. Deasey.....	374,781	Dec. 13	872	229	41	1226
Faucet. Bung.....	W. H. Parham.....	367,999	Aug. 9	968	260	40	642
Faucet. Can.....	J. Marshall.....	366,230	July 12	664	180	40	133
Faucet for oil-cans.....	G. W. Banker.....	359,704	Mar. 22	1890	480	38	1283
Faucet-guard.....	H. Blake.....	361,609	Apr. 19	1737	448	39	340
Faucet-hole and stopper combined.....	W. J. Woodley.....	362,809	May 10	1055	287	39	677
Faucet. Measuring.....	T. Beck.....	363,575	May 24	2136	553	39	900
Faucet. Measuring.....	W. T. Withers.....	371,240	Oct. 11	715	184	41	149
Faucet or cock.....	W. R. England.....	359,246	Mar. 15	1186	309	38	1137
Faucet. Self-closing.....	E. Homan.....	362,277	May 3	292	81	9	530
Faucet. Weighing.....	T. J. Black.....	363,273	May 17	1698	444	39	807
Faucets from casks. Device for removing.....	W. H. Parmelee.....	365,404	June 28	1756	455	39	1444
Faucets in vessels. Device for adjusting.....	G. W. Harrigan.....	361,512	Apr. 19	1595	413	39	314
Faucets, &c. Mechanism for operating the valves of.....	W. Paton.....	368,849	Aug. 23	2179	578	40	892
Feather-edging and channeling tool.....	G. B. Dunham.....	375,345	Dec. 27	1688	{ 443 444 }	{ 41 41 }	{ 1398 1398 }
Feather-renovator.....	W. J. Cummings.....	370,454	Sept. 27	1753	441	40	1368
Feather-tip pin.....	E. W. Moch.....	375,374	Dec. 27	1728	453	41	1406
Feather trimming.....	E. Tausky.....	371,992	Oct. 25	1798	466	41	380
Feather trimming and making the same.....	C. Lachner.....	356,141	Jan. 18	1220	324	38	249
Feed-bag.....	F. H. Burnham.....	369,393	Sept. 6	116	34	40	1055
Feed-bag.....	V. S. Ketchum.....	368,535	Aug. 16	1737	462	40	798
Feed-bag support.....	C. Carr.....	355,504	Jan. 4	271	72	38	55
Feed-cooker and scalding. Combined.....	W. A. Steffa.....	366,042	July 5	405	110	40	76
Feed-cutter.....	B. Lukins.....	367,050	July 26	1768	477	40	359
Feed-cutter.....	M. L. Metzger and A. Cooper.....	364,946	June 14	1072	{ 279 280 }	{ 39 39 }	{ 1295 1295 }
Feed-cutter.....	E. W. Rider.....	369,209	Aug. 30	2670	710	40	998
Feed-grinder.....	I. and J. C. Jay.....	359,788	Mar. 22	2025	513	38	1305
Feed mechanism. Stop device for intermittent.....	W. Koch.....	370,705	Sept. 27	2033	541	40	1438
Feed-mill.....	J. R. Davies.....	365,583	June 28	2033	530	39	1498
Feed-motion.....	C. E. Ring.....	357,415	Feb. 8	964	254	38	610
Feed-motion. Intermitting circular.....	J. Thomson.....	360,740	Apr. 5	488	124	39	91
Feed-rack.....	N. E. Barnsback and G. A. Bush.....	375,329	Dec. 27	1666	437	41	1395
Feed-rack.....	J. R. Logan.....	366,412	July 12	895	241	40	177
Feed-rack.....	D. W. Shorter.....	363,089	May 17	1450	384	39	758
Feed-rack. Folding.....	J. W. Dunn.....	364,229	June 7	42	14	39	1096
Feed regulator. Boiler.....	B. H., A. R., and E. R. Blood.....	356,676	Jan. 25	1969	517	38	399
Feed-regulator for roller-mills and purifiers.....	J. W. Edwards and C. L. Becker.....	367,608	Aug. 2	366	103	40	521
Feed-roll.....	L. Garrigues.....	360,677	Apr. 5	400	101	39	75
Feed-rolls. Top pressure for.....	G. W. Church.....	359,667	Mar. 22	1832	465	38	1272
Feed-trough.....	J. D. Barber.....	371,918	Oct. 25	1697	440	41	361
Feed-trough.....	L. B. Foy.....	372,529	Nov. 1	352	97	41	537
Feed-trough.....	G. W. Morgan and S. P. Herr.....	369,022	Aug. 30	2421	643	40	948
Feed-water apparatus.....	J. F. Belleville.....	373,216	Nov. 15	1427	377	41	751
Feed-water. Apparatus for heating.....	R. R. Little.....	367,760	Aug. 2	615	166	40	567
Feed-water cleaner.....	F. Trowbridge.....	373,867	Nov. 29	2389	643	41	953
Feed-water governor.....	G. W. Doolittle.....	355,440	Jan. 4	188	50	38	38
Feed-water grease-extractor.....	W. D. Nelson.....	366,864	July 19	1531	411	40	306
Feed-water heater.....	W. T. Andrews.....	361,803	Apr. 26	2027	527	39	400
Feed-water heater.....	W. Click.....	356,868	Feb. 1	180	48	38	455
Feed-water heater.....	E. G. T. Colles.....	357,268	Feb. 8	770	200	38	572
Feed-water heater.....	J. M. Dunn and W. E. Sidnell.....	361,054	Apr. 12	950	240	39	181
Feed-water heater.....	H. Fairbanks.....	371,048	Oct. 4	457	115	41	90
Feed-water heater.....	C. W. Fowler.....	373,520	Nov. 22	1902	504	41	851
Feed-water heater.....	J. E. Gill.....	374,956	Dec. 20	1155	302	41	1288
Feed-water heater.....	E. Goss.....	355,989	Jan. 11	993	261	38	202
Feed-water heater.....	A. A. Goubert.....	367,516	Aug. 2	239	68, 69	40	497
Feed-water heater.....	P. Grassmann and M. B. Cheek.....	368,147	Aug. 9	1169	312	40	681
Feed-water heater.....	C. H. Holt.....	360,349	Mar. 29	2911	741	38	1476
Feed-water heater.....	F. M. Ludlow.....	357,934	Feb. 15	1730	452	38	761
Feed-water heater.....	W. L. Mapel.....	369,950	Sept. 13	905	241	40	1213
Feed-water heater.....	W. L. Oakes.....	367,839	Aug. 9	733	198	40	599
Feed-water heater.....	G. A. Otis.....	362,395	May 3	449	{ 124 125 }	{ 39 39 }	{ 562 562 }
Feed-water heater.....	P. Rossiter.....	362,904	May 10	1192	319	39	702
Feed-water heater.....	A. M. Rowe.....	359,634	Mar. 22	1789	455	38	1263

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Feed-water heater.....	W. S. Rowe.....	358,821	Mar. 1	587	146	38	1012
Feed-water heater.....	E. L. Stewart.....	372,499	Nov. 1	313	86	41	530
Feed-water heater.....	H. Warden.....	358,514	Mar. 1	132	33	38	928
Feed-water heater.....	A. E. J. Whitney.....	358,177	Feb. 22	2089	550	38	832
Feed-water heater and purifier.....	E. G. T. Colles.....	360,207	Mar. 29	2709	{ 684 685 }	38	1437
Feed-water heater and purifier.....	J. J. Hoppes.....	369,712	Sept. 13	550	{ 151 152 }	40	1149
Feed-water heater and purifier.....	J. J. Hoppes.....	369,713	Sept. 13	553	152	40	1149
Feed-water heater and purifier.....	J. J. Hoppes.....	369,714	Sept. 13	555	152	40	1150
Feed-water heater, purifier, and circulator.....	G. H. Watson.....	364,454	June 7	354	97, 98	39	1156
Feed-water. Heating.....	L. De Naeyer.....	370,010	Sept. 13	1006	{ 264 265 }	40	1231
Feed-water. Heating.....	W. E. Pearson.....	371,212	Oct. 11	678	174	41	142
Feed-water heating and purifying attachment for boilers.....	G. H. Watson.....	364,453	June 7	352	96, 97	39	1155
Feed-water-heating attachment for boilers.....	J. H. Mathews.....	367,647	Aug. 2	428	119	40	532
Feed-water. Means for separating oil and sediment from.....	W. E. Pearson.....	374,879	Dec. 13	1013	265	41	1252
Feed-water purifier.....	V. H. McConnell.....	360,455	Apr. 5	85	22	39	17
Feed-water purifier.....	S. H. Mosher.....	373,191	Nov. 15	1379	365	41	742
Feed-water purifier.....	K. A. Petzold.....	365,093	June 21	1296	343	39	1345
Feed-water-purifying apparatus.....	I. B. McCormack.....	357,328	Feb. 8	844	{ 220 221 }	38	587
Feed-water regulator.....	D. E. Butler.....	356,400	Jan. 18	1578	415	38	316
Feed-water regulator.....	G. S. Herrick.....	373,402	Nov. 15	1703	451	41	802
Feed-water regulator.....	G. S. Herrick.....	373,403	Nov. 15	1705	452	41	802
Feed-water regulator.....	S. J. Parker.....	356,373	Jan. 18	1540	405	38	310
Feed-water trap. Steam.....	H. Creamer.....	358,964	Mar. 8	807	204	38	1058
Feed-water trap. Steam.....	H. Creamer. (Reissue).....	10,853	Aug. 2	637	{ 170 171 }	40	571
Feeder and purifier. Boiler.....	J. W. Hyatt.....	362,840	May 10	1094	296	39	684
Feeder and sifter. Combined.....	J. T. Burkett.....	359,496	Mar. 15	1552	396	38	1204
Feeder. Automatic boiler.....	A. Mayhew.....	364,534	June 7	475	128	39	1177
Feeder. Boiler.....	J. Austin.....	362,480	May 10	582	163	39	591
Feeder. Coagulant.....	J. W. Hyatt.....	362,966	May 17	1286	341	39	726
Feeder. Flock-machine.....	H. M. Truesdell.....	366,137	July 5	528	142	40	100
Feeder for boilers. Water.....	J. Austin.....	368,990	Aug. 30	2383	633	40	940
Feeder. Steam-boiler.....	G. A. Kelly.....	368,835	Aug. 23	2154	571	40	886
Feeder. Stock.....	C. S. Walin.....	364,557	June 7	503	135	39	1183
Feeding device for boilers. Water.....	F. B. Eastman.....	364,636	June 14	604	162	39	1209
Feeding mechanism. Automatic.....	G. C. Keene.....	367,527	Aug. 2	252	72	40	499
Feeding salt to live stock. Trough for.....	I. N. Booth and E. Hughes.....	355,967	Jan. 11	968	253	38	196
Feeding salt to live stock. Trough for.....	A. Cowan.....	366,933	July 19	1613	432	40	322
Feeding stock. Device for.....	W. Beaty.....	373,877	Nov. 29	2405	646	41	956
Feeding stock. Device for.....	J. G. Richardson.....	363,849	May 31	2533	658	39	981
Fellies. Manufacture of metal.....	H. B. Smith and W. S. Kelley.....	358,494	Mar. 1	106	25	38	923
Felly-bolt.....	D. W. McKinnon.....	375,177	Dec. 20	1466	383	41	1346
Felly-coupling.....	J. F. McConnell.....	370,076	Sept. 20	1104	293	40	1257
Felt. Actuating wet.....	R. Smith.....	362,673	May 10	862	235	39	641
Felt. Manufacture of.....	A. Dolge.....	363,217	May 17	1627	427	39	793
Felted articles. Pouncing.....	J. C. Wilson.....	363,930	May 31	2647	687	39	1001
Fence.....	H. C. Barnet.....	369,627	Sept. 6	438	122	40	1118
Fence.....	W. Becker.....	371,409	Oct. 11	956	247	41	194
Fence.....	C. F. Beebe.....	361,480	Apr. 19	1555	403	39	305
Fence.....	J. M. Bosart.....	373,638	Nov. 22	2065	551	41	882
Fence.....	H. C. Coats and J. Jay.....	357,979	Feb. 15	1798	471	38	774
Fence.....	J. P. Cool.....	371,822	Oct. 18	1546	399	41	322
Fence.....	J. A. Devore.....	359,595	Mar. 22	1741	442	38	1254
Fence.....	C. Gibson.....	362,074	May 3	31	9	39	479
Fence.....	J. Gilbert.....	356,830	Feb. 1	117	32	38	445
Fence.....	D. B. Gillespie.....	366,089	July 5	460	125	40	87
Fence.....	J. A. Hay.....	370,256	Sept. 20	1355	362	40	1305
Fence.....	P. R. Hine.....	370,478	Sept. 27	1694	449	40	1375
Fence.....	W. A. Holmes.....	360,155	Mar. 29	2638	667	38	1424
Fence.....	I. B. Horner.....	375,292	Dec. 20	1609	422	41	1375
Fence.....	C. S. Hunter.....	369,005	Aug. 30	2402	637	40	944
Fence.....	J. Jay and H. C. Coate.....	373,368	Nov. 15	1655	440	41	793
Fence.....	I. L. Landis.....	360,703	Apr. 5	441	112	39	82
Fence.....	C. O. Lee.....	358,461	Mar. 1	55	14	38	913
Fence.....	H. T. Lee and C. Protsman.....	370,954	Oct. 4	322	79	41	64
Fence.....	B. J. Leslie.....	367,005	July 19	1705	459	40	338
Fence.....	R. Mackie.....	358,283	Feb. 22	2231	588	38	860
Fence.....	I. B. Mahon.....	360,318	Mar. 29	2867	730	38	1468
Fence.....	J. Mahon.....	368,098	Aug. 9	1102	292	40	668
Fence.....	L. Moore.....	356,006	Jan. 11	1016	267	38	206
Fence.....	S. F. Morrow, L. W. Loving, and W. B. McGowan.....	372,924	Nov. 8	966	262	41	657
Fence.....	J. R. Mote.....	372,322	Nov. 1	56	17	41	482
Fence.....	J. S. Orr.....	370,157	Sept. 20	1224	326	40	1280
Fence.....	E. R. Powell.....	370,656	Sept. 27	1958	518	40	1425
Fence.....	J. and A. E. Reif.....	358,166	Feb. 22	2071	545	38	829
Fence.....	H. Rong.....	359,520	Mar. 15	1594	408	38	1212
Fence.....	J. C. Ruffcorn.....	364,187	May 31	3022	784	39	1074
Fence.....	R. C. Saunders.....	363,685	May 24	2301	597	39	931
Fence.....	W. J. Smith.....	363,557	May 24	2111	547	39	895
Fence.....	G. S. Spring.....	364,685	June 14	666	178	39	1222
Fence.....	S. P. Stiles.....	369,751	Sept. 13	596	162	40	1156
Fence.....	C. N. Town.....	359,297	Mar. 15	1251	325	38	1148
Fence.....	J. W. Trinkle.....	370,027	Sept. 13	1029	271	40	1236
Fence.....	J. C. Van Cleave.....	369,571	Sept. 6	356	98	40	1102
Fence.....	N. and R. S. Van Horn.....	357,745	Feb. 15	1477	387	38	714
Fence.....	J. A. Williams and E. H. Thomas.....	366,057	July 5	422	114	40	80
Fence.....	T. D. Wilson.....	370,299	Sept. 20	1414	381	40	1316

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Fence.....	J. C. Wygant.....	370,513	Sept. 27	1742	462	40	1384
Fence.....	A. J. Yarlot.....	373,792	Nov. 22	2280	611	41	924
Fence and water-gate. Combined.....	T. D. Wilson.....	363,350	May 17	1804	473	39	828
Fence. Barbed.....	C. A. Hodge.....	367,398	Aug. 2	61	16	40	462
Fence. Barbed.....	H. Utter.....	369,825	Sept. 13	705	190	40	1177
Fence. Bed.....	E. A. Caswell.....	367,186	July 26	1960	530	40	395
Fence bracket. Wire.....	W. C. Gholson.....	370,386	Sept. 27	1551	415	40	1350
Fence bracket. Wire.....	W. C. Gholson.....	370,387	Sept. 27	1552	416	40	1350
Fence-building machine.....	W. H. H. Fauber.....	359,778	Mar. 22	2011	{ 508 509 }	{ 38 38 }	1303
Fence-building machine.....	W. E. Schaffer.....	371,219	Oct. 11	689	177	41	144
Fence. Flood.....	A. Buracker.....	359,771	Mar. 22	2000	506	38	1301
Fence. Flood.....	H. D. Merrill.....	371,346	Oct. 11	868	223	41	177
Fence. Flood.....	P. H. More.....	362,988	May 17	1312	347	39	730
Fence. Flood.....	A. Z. Sims.....	358,491	Mar. 1	103	25	38	922
Fence-guard.....	T. Dockum.....	366,208	July 12	623	170	40	126
Fence. Hedge.....	D. W. Aylworth.....	361,039	Apr. 12	934	236	39	177
Fence. Hedge.....	H. Taylor.....	362,332	May 3	363	100	39	544
Fence lock and stretcher. Wire.....	C. F. Darnell.....	373,392	Nov. 15	1686	447	41	800
Fence-loom.....	J. H. Felt and O. King.....	361,582	Apr. 19	1695	{ 438 439 }	{ 39 39 }	332
Fence-loom.....	P. Kesling.....	372,419	Nov. 1	201	57	41	508
Fence-machine.....	C. E. Anderson.....	360,505	Apr. 5	158	39	39	31
Fence-machine.....	C. E. Anderson.....	372,650	Nov. 8	544	149	41	583
Fence-machine.....	J. P. Brown.....	360,401	Mar. 29	2987	{ 757 758 }	{ 38 38 }	1488
Fence-machine.....	G. J. Cline.....	363,316	May 17	1757	460	39	818
Fence-machine.....	H. Farmer.....	358,441	Mar. 1	26	8	38	908
Fence-machine.....	D. H. Hazen and D. H. Kirkpatrick.....	367,393	Aug. 2	53	13	40	461
Fence-machine.....	J. M. Henley.....	356,534	Jan. 25	1766	459	38	359
Fence-machine.....	J. A. Minnick.....	358,054	Feb. 22	1903	503	38	799
Fence-machine.....	A. J. Neal.....	374,550	Dec. 6	550	{ 143 144 145 }	{ 41 41 41 }	1153
Fence-machine.....	E. S. Plackard.....	365,150	June 21	1381	365	39	1360
Fence-machine.....	J. C. Riddle.....	374,497	Dec. 6	467	121	41	1135
Fence-machine.....	B. A. Welds.....	368,261	Aug. 16	1350	356	40	723
Fence-machine.....	G. W. Williams.....	360,189	Mar. 29	2686	679	38	1434
Fence-machine.....	B. F. Woodman and L. H. Evans.....	375,434	Dec. 27	1803	{ 471 472 }	{ 41 41 }	1421
Fence-machine. Adjustable and reversible.....	G. and L. Kesling.....	358,121	Feb. 22	2004	528	38	816
Fence-machine. Hand.....	M. F. Connett, Jr.....	365,503	June 28	1893	493	39	1470
Fence machine. Slat-and-wire.....	G. W. Begole.....	367,588	Aug. 2	338	96	40	516
Fence machine. Wire.....	B. L. Fletcher.....	361,005	Apr. 12	885	223	39	168
Fence machine. Wire.....	A. J. and G. W. Forsythe.....	362,439	May 3	511	144	39	574
Fence machine. Wire.....	A. H. Gore.....	358,605	Mar. 1	287	68	38	957
Fence machine. Wire.....	F. M. and S. C. Love.....	360,451	Apr. 5	79	21	39	16
Fence machine. Wire.....	L. C. Lowden.....	365,312	June 21	1606	419	39	1403
Fence machine. Wire.....	R. J. Watts and S. Cooper.....	361,561	Apr. 19	1656	429	39	325
Fence machines. Tension device for.....	W. C. Shoemaker.....	367,245	July 26	2056	555	40	413
Fence machines. Tension device for wire.....	P. Kesling.....	358,458	Mar. 1	51	13	38	913
Fence machinery.....	J. W. Clark.....	368,753	Aug. 23	2043	541	40	866
Fence-making apparatus.....	W. A. Cochran.....	364,396	June 7	257	73	39	1138
Fence-making machine.....	B. F. Chandler.....	367,187	July 26	1962	530	40	395
Fence-making machine.....	T. B. Lecky.....	358,460	Mar. 1	54	14	38	913
Fence-making machine.....	W. H. McGrew.....	361,308	Apr. 19	1326	{ 340 341 }	{ 39 39 }	263
Fence-making machine.....	D. I. Wood.....	355,429	Jan. 4	177	47	38	36
Fence. Metallic.....	J. A. Cooper.....	372,254	Oct. 25	2202	{ 564 565 }	{ 41 41 }	454
Fence. Metallic.....	W. W. Hamilton.....	363,227	May 17	1638	430	39	795
Fence. Picket.....	E. F. Shellabarger.....	368,977	Aug. 30	2362	627	40	936
Fence. Picket.....	J. Wintrobe.....	369,671	Sept. 6	499	137	40	1130
Fence. Portable.....	D. C. Hapenny.....	368,205	Aug. 16	1256	335	40	706
Fence-post.....	D. Bowen.....	359,589	Mar. 15	1723	438	38	1234
Fence-post.....	J. O. Brookbank.....	369,500	Sept. 6	250	70	40	1081
Fence-post.....	J. H. Buscher.....	359,666	Mar. 22	1831	465	38	1272
Fence-post.....	J. D. Campbell.....	368,067	Aug. 9	1062	283	40	661
Fence-post.....	M. C. Chamberlain and M. N. Merrill.....	368,456	Aug. 16	1627	435	40	778
Fence-post.....	R. Datesman.....	359,434	Mar. 15	1458	373	38	1187
Fence-post.....	J. W. Davy.....	369,779	Sept. 13	635	172	40	1163
Fence post.....	E. J. Devens.....	361,001	Apr. 12	881	222	39	167
Fence-post.....	F. L. Fairchild.....	356,995	Feb. 1	351	93	38	488
Fence-post.....	F. L. Fairchild.....	361,497	Apr. 19	1572	408	39	309
Fence-post.....	F. L. Fairchild.....	362,436	May 3	506	143	39	573
Fence-post.....	W. Gepford.....	366,578	July 12	1132	303	40	225
Fence-post.....	J. M. Gough and J. Speakman.....	357,314	Feb. 8	830	216	38	584
Fence-post.....	L. Gratton.....	370,941	Oct. 4	302	74	41	60
Fence-post.....	L. G. Haase.....	368,334	Aug. 16	1445	384	40	743
Fence-post.....	C. W. Holm.....	366,957	July 19	1649	442	40	329
Fence-post.....	J. E. Hunt.....	359,257	Mar. 15	1196	312	38	1138
Fence-post.....	J. J. Kimball.....	357,393	Feb. 8	936	246	38	605
Fence-post.....	H. E. Lambert.....	374,684	Dec. 13	732	192	41	1199
Fence-post.....	I. L. Landis.....	361,880	Apr. 26	2148	557	39	423
Fence-post.....	I. L. Landis.....	367,641	Aug. 2	620	117	40	531
Fence-post.....	H. Mater.....	373,839	Nov. 29	2352	631	41	946
Fence-post.....	W. W. McCallip.....	364,427	June 7	307	84	39	1146
Fence-post.....	G. W. McEwen.....	368,222	Aug. 16	1299	343	40	713
Fence-post.....	G. W. McEwen and W. H. Lawrence.....	359,167	Mar. 8	1068	278	38	1108
Fence-post.....	W. W. Morrison.....	360,778	Apr. 5	541	140	39	102
Fence-post.....	A. J. Nellis.....	370,809	Oct. 4	80	21	41	17
Fence-post.....	A. W. Newton.....	359,624	Mar. 22	1776	452	38	1261
Fence-post.....	T. F. Richart.....	365,099	June 21	1307	346	39	1347
Fence-post.....	E. Robards.....	367,848	Aug. 9	748	201	40	602

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Fence-post	J. P. Roberts	364,674	June 14	652	175	39	1219
Fence-post	R. A. Sawyer and W. T. Guy	363,853	May 31	2537	659	39	982
Fence-post	A. W. Tourgée	369,371	Sept. 6	88	28	40	1051
Fence-post	L. F. and B. C. Wickers	360,187	Mar. 29	2684	678	38	1433
Fence-post	H. W. Wilson	356,517	Jan. 25	1747	455	38	356
Fence-post anchor	V. Findling	362,501	May 10	610	172	39	596
Fence-post anchor	I. A. Kilmer	367,411	Aug. 2	78	21	40	465
Fence-post and base	F. L. Fairchild	362,435	May 3	505	142	39	573
Fence-post and base	F. L. Fairchild	362,437	May 3	508	143	39	573
Fence-post base	C. Bechtold	370,850	Oct. 4	147	40	41	29
Fence-post base	W. W. McCallip	357,217	Feb. 8	699	180	38	560
Fence-post. Metallic	L. Turnberger	373,621	Nov. 22	2040	543	41	877
Fence-post socket	J. Richardson	364,042	May 31	2812	729	39	1034
Fence-posts. Machine for trimming	J. E. Laycock	362,638	May 10	817	224	39	632
Fence-posts. Manufacture of	J. W. Griswold	374,299	Dec. 6	183	48	41	1081
Fence-rail	A. M. Brock	373,123	Nov. 15	1269	337	41	724
Fence-railing. Iron	C. F. Palmer	361,542	Apr. 19	1635	424	39	321
Fence signal. Barb	R. E. Riale	367,664	Aug. 2	461	126	40	539
Fence stay. Wire	F. P. Cady	368,807	Aug. 23	2119	561	40	880
Fence stay. Wire	W. M. Clow	368,459	Aug. 16	1630	436	40	778
Fence stays. Machine for manufacturing wire	L. W. Connell	355,863	Jan. 11	797	209 210	38	162
Fence-strip. Barbed	J. Schmidt	368,014	Aug. 9	991	266	40	648
Fence-support	J. S. and G. H. Hume	361,291	Apr. 19	1299	333	39	258
Fence tightener. Wire	L. A. Butts	363,314	May 17	1751	459	39	817
Fence-weaving machine	F. W. Binford	372,197	Oct. 25	2117	544	41	437
Fence-weaving machine	A. T. Hoadley	371,939	Oct. 25	1724	446	41	366
Fence. Wire	A. F. Caldwell	372,060	Oct. 25	1909	492	41	399
Fence. Wire	S. P. Etter	358,852	Mar. 8	647	160	38	1028
Fence. Wire	J. F. Hanna	359,604	Mar. 22	1750	446	38	1257
Fence. Wire	J. D. Jones	372,625	Nov. 1	507	138	41	566
Fence. Wire	B. Scarles	355,560	Jan. 4	348	93	38	70
Fence. Wire	J. G. Schiller	363,003	May 17	1337	353	39	735
Fence. Wire	J. M. Vanover	362,911	May 10	1199	321	39	703
Fence. Wire	D. Woodford	374,884	Dec. 13	1020	267	41	1254
Fence. Wire-and-picket	W. H. McGrew	373,596	Nov. 22	2006	532	41	870
Fence-wire-spooling device	H. Martin and F. G. McHenry	373,080	Nov. 15	1208	322	41	711
Fence-wire strainer	W. Orr	359,464	Mar. 15	1494	383	38	1194
Fence-wire tension device	J. L. Braffett	360,083	Mar. 29	2510	638	38	1402
Fence-wire twisting and spooling machine. Spur-wheel	C. C. Hill	373,457	Nov. 22	1783	474	41	830
Fence-wires. Device for twisting	J. L. Braffett	360,084	Mar. 29	2511	639	38	1402
Fence-wires. Machine for winding and tightening	W. Knapp	357,209	Feb. 8	691	179	38	558
Fence-wires. Tool for clinching	H. E. Lambert. (Reissue)	10,799	Jan. 18	1632	427	38	327
Fences. Apparatus for making wire-and-picket	F. Kaufman	361,362	Apr. 19	1401	360	39	276
Fences. Device for constructing wire-and-picket	J. J. Doughman	362,824	May 10	1073	291	39	680
Fences. Machine for constructing	P. Allen	375,116	Dec. 20	1383	359 360	41	1329
Fences. Machine for constructing	J. A. McLeland	365,838	July 5	109	30	40	23
Fences. Machine for making	L. Gabel	357,916	Feb. 15	1703	444	38	756
Fences. Machine for making wire	J. W. Collier	367,092	July 26	1836	495	40	372
Fences. Machine for making wire	E. M. Cooper	355,812	Jan. 11	716	187	38	148
Fences. Machine for making wire-and-picket	E. E. McCulley	374,079	Nov. 29	2694	723	41	1013
Fences. Machine for making wire-and-slat	J. S. Locke	364,120	May 31	2917	756	39	1054
Fences. Machine for weaving wire	J. L. Brown and J. Blake	359,592	Mar. 22	1735	441	38	1253
Fences. Machine for wiring picket	J. C. Haag	356,638	Jan. 25	1925	504	38	390
Fences. Metal picket for	J. E. Emerson	358,602	Mar. 1	283	67	38	956
Fences. Stay for wire	W. J. Adam	373,917	Nov. 29	2462	661	41	967
Fences. Stay-piece and guard for wire	S. F. Duncan	356,711	Jan. 25	2014	528 529	38	407
Fences. Stay-piece or guard for wire	S. F. Duncan	374,461	Dec. 6	419	109	41	1126
Fences. Stretching and supporting device for wire	J. M. Kelly	361,223	Apr. 12	1214	309	39	230
Fences. Strip for metal	G. P. Fisher, Jr.	373,772	Nov. 22	2253	604	41	919
Fences. Tension device for making picket	C. E. Wintrode	370,585	Sept. 27	1857	493	40	1404
Fences. Tension device for use in constructing wire-and-picket	J. Wintrode	368,561	Aug. 16	1773	471	40	806
Fences. Tension device for use in making	A. N. Caldwell	361,395	Apr. 19	1443	373	39	284
Fences. Warning-strip for wire	W. J. Cloud	367,893	Aug. 9	813	219	40	615
Fences. Wire-fastener for hedge	L. H. Leber and E. H. Neiman	356,721	Jan. 25	2027	533	38	409
Fencing. Barbed metallic	B. F. Randall	359,178	Mar. 8	1080	281	38	1110
Fencing. Machine for making picket	L. T. Curtis	375,266	Dec. 20	1578	413	41	1369
Fencing. Machine for making spur-wheel	C. C. Hill	373,458	Nov. 22	1784	474 475	41	830
Fencing. Machine for making wire-and-wood	W. Bundy	369,584	Sept. 6	372	103	40	1105
Fencing. Machine for manufacturing barb-wire mesh	J. D. Curtis	364,754	June 14	774	206 207 208	39	1242
Fender:							
See Bridge-fender. Vehicle-wheel fender.							
Plow-fender. Wheel-fender.							
Vehicle-fender.							
Fender	G. S. Blakeman	357,654	Feb. 15	1337	352	38	688
Fender	W. McCoy and J. McArthur	373,673	Nov. 22	2112	565	41	893
Fermentation. Lactic	C. N. Waite	368,032	Aug. 9	1010	.....	40	652
Ferric oxide from the waste liquors of copper-works. Obtaining	G. L. Wigg, M. Steele, and W. J. Wigg	370,511	Sept. 27	1740	.....	40	1383
Ferrule for cant-hooks and the like	A. Sanford	366,689	July 19	1296	347	40	263
Ferrule or like article	C. P. Hawley	375,487	Dec. 27	1873	489	41	1435
Ferrule. Plumber's	W. Bishop	368,508	Aug. 16	1700	453	40	791
Ferry-boat	W. Cowles	355,682	Jan. 11	530	139 140	38	113
Fertilizer	J. Van Ruymbeke	367,732	Aug. 2	579	.....	40	560
Fertilizer-distributer	B. F. Browne	365,429	June 28	1792	466	39	1450
Fertilizer-distributer	E. J. Corser	374,453	Dec. 6	405	106	41	1123

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fertilizer-distributor.....	J. L. Dew.....	375,052	Dec. 20	1286	335	41	1311
Fertilizer-distributor.....	S. H. Everett.....	357,376	Feb. 8	908	239	38	599
Fertilizer-distributor.....	S. H. Everett.....	371,881	Oct. 18	1643	424	41	341
Fertilizer-distributor.....	J. Follmer.....	361,403	Apr. 19	1453	375	39	286
Fertilizer-distributor.....	B. F. Hancock.....	368,945	Aug. 30	2319	617	40	928
Fertilizer-distributor.....	G. F. Jaisle.....	356,769	Feb. 1	37	11	38	430
Fertilizer-distributor.....	W. Josleyn.....	374,155	Nov. 29	2797	751	41	1032
Fertilizer-distributor.....	W. W. Lowman.....	358,744	Mar. 1	474	116	38	992
Fertilizer-distributor.....	B. Smith and H. C. Jenkins.....	358,171	Feb. 22	2076	546	38	830
Fertilizer-distributor.....	J. M. Sullivan.....	356,175	Jan. 18	1264	334	38	257
Fertilizer-distributor and seed-drill. Combined.....	C. D. Daniels.....	362,943	May 17	1245	331	39	718
Fertilizer-distributor and seed-planter.....	D. Morgan.....	356,259	Jan. 18	1371	{ 362 363 }	{ 38 38 }	278
Fertilizer-distributors. Feed mechanism for.....	J. W. Spangler.....	364,969	June 14	1104	287	39	1301
Fertilizer-distributing attachment for wagons.....	H. Marshall.....	361,433	Apr. 19	1494	386	39	294
Fertilizer-drills. Hopper for.....	T. R. Crane.....	374,455	Dec. 6	407	106	41	1123
Fertilizer-dropper and hill-former for tobacco-plants. Combined.....	J. C. Coghill and C. H. Unselt.....	360,205	Mar. 29	2707	684	38	1437
Fertilizer in rows. Apparatus for dropping.....	J. I. Du Bois.....	356,224	Jan. 18	1327	350	38	269
Fertilizer. Phosphatic.....	J. Reese.....	372,087	Oct. 25	1957	.....	41	406
Fertilizer. Tank-waste.....	P. B. Rose.....	371,630	Oct. 18	1260	.....	41	264
Fertilizers. Apparatus for treating.....	W. B. Chisolm.....	369,434	Sept. 6	169	49	40	1064
Fertilizers. Device for distributing.....	W. T. Pegues.....	361,543	Apr. 19	1636	424	39	322
Fertilizers. Preparing phosphate rock for.....	V. Lord.....	371,083	Oct. 4	498	125	41	98
Fetlock-support for colts.....	J. A. Reid.....	374,996	Dec. 20	1210	315	41	1298
Fiber. Apparatus for separating vegetable from animal.....	U. C. Allen and N. S. Potter.....	356,611	Jan. 25	1887	496	38	382
Fiber-cleaning machine.....	A. W. Savage.....	361,838	Apr. 26	2076	{ 540 541 542 }	{ 39 39 39 }	410
Fiber-digester.....	J. H. Brown.....	366,556	July 12	1090	295	40	216
Fiber-drier.....	F. G. and A. C. Sargent.....	355,559	Jan. 4	347	92, 93	38	70
Fiber-extracting machine.....	D. P. Burdon.....	365,430	June 28	1793	467	39	1451
Fiber-extracting machine.....	J. Hemphill.....	370,393	Sept. 27	1558	{ 417 418 }	{ 40 40 }	1351
Fiber. Machine for cleaning vegetable.....	T. Villamor.....	362,683	May 10	878	239	39	644
Fiber. Machine for opening and preparing.....	J. N. Bourne.....	365,784	July 5	17	6, 7	40	6
Fiber. Treating vulcanized.....	H. W. Morrow.....	366,341	July 12	810	.....	40	160
Fibers and manufacturing paper-pulp. Disintegrating.....	H. Blackman.....	369,836	Sept. 13	726	{ 194 195 }	{ 40 40 }	1181
Fibers and manufacturing paper-pulp. Process of and apparatus for disintegrating.....	H. Blackman.....	369,834	Sept. 13	715	{ 192 193 }	{ 40 40 }	1179
Fibrous material. Disintegrating.....	J. H. Brown.....	366,557	July 12	1091	295	40	216
Fibrous plants. Apparatus for disintegrating.....	B. F. Sparr.....	370,286	Sept. 20	1400	376	40	1313
Fibrous plants. Reducing.....	A. D. Kohn and L. Beckhardt.....	367,215	July 26	2005	.....	40	403
Fifth-wheel.....	G. M. Badger.....	363,976	May 31	2727	707	39	1016
Fifth-wheel.....	G. W. Browne and C. R. Turner.....	355,376	Jan. 4	109	30	38	23
Fifth-wheel.....	S. Burdsall.....	358,428	Mar. 1	7	3	38	904
Fifth-wheel.....	E. H. Cox.....	370,708	Sept. 27	2074	550	40	1445
Fifth-wheel.....	J. Edgar.....	372,407	Nov. 1	183	51, 52	41	504
Fifth-wheel.....	W. C. Engel.....	365,174	June 21	1414	372	39	1367
Fifth-wheel.....	J. Finck, Jr.....	364,234	June 7	49	15	39	1098
Fifth-wheel.....	W. W. Grier.....	362,504	May 10	613	173	39	597
Fifth-wheel.....	H. Hafker.....	363,134	May 17	1514	401	39	771
Fifth-wheel.....	J. Knapp.....	358,399	Feb. 22	2384	633	38	889
Fifth-wheel.....	R. McLaughlin.....	360,609	Apr. 5	314	77	39	60
Fifth-wheel.....	H. C. Shriner.....	366,637	July 12	1221	326	40	241
Fifth-wheel.....	W. C. Switzer.....	355,799	Jan. 11	704	184	38	145
Fifth-wheel.....	W. M. Thompson.....	369,268	Aug. 30	2749	733	40	1013
Fifth-wheel.....	D. D. Whitney.....	370,718	Sept. 27	2056	545	40	1442
Fifth-wheel.....	D. Wilcox.....	358,316	Feb. 22	2271	599	38	868
Fifth-wheel.....	S. T. Worley.....	356,701	Jan. 25	2004	525	38	405
Fifth-wheel blocks. Making.....	W. H. and E. L. Baker.....	373,263	Nov. 15	1485	392	41	762
Figured fabric.....	P. A. Dailey.....	358,146	Feb. 22	2041	537	38	823
File.....	C. E. Darrow.....	358,006	Feb. 15	1832	482	38	780
File.....	C. M. Fairbanks.....	371,184	Oct. 11	641	.....	41	134
File.....	E. A. Kittell. (Reissue.).....	10,847	July 5	601	{ 162 163 }	{ 40 40 }	114
File.....	O. W. Loeffler.....	368,097	Aug. 9	1101	292	40	668
File and cover. Combined paper.....	W. H. Fox.....	367,614	Aug. 2	373	105	40	523
File. Bill or paper.....	F. B. Gilbert.....	367,971	Aug. 9	930	251	40	637
File. Binding.....	J. W. Dickieson.....	357,375	Feb. 8	907	239	38	599
File-box.....	A. W. Burr.....	371,735	Oct. 18	1422	367	41	298
File-case.....	F. R. Alderman.....	361,852	Apr. 26	2103	545	39	414
File-cutting.....	W. Tucker.....	356,053	Jan. 11	1080	283	38	217
File-cutting machine.....	H. J. Gosling.....	365,469	June 28	1851	481	39	1462
File-cutting machine.....	A. Weed.....	363,492	May 24	2015	{ 525 526 }	{ 39 39 }	878
File-cutting machines. Chisel-holder for.....	J. Buyer.....	369,690	Sept. 13	523	145	40	1144
File. Documental.....	J. M. Willis.....	369,899	Sept. 13	825	219	40	1200
File for letters and papers, &c.....	W. A. and C. S. Cooke.....	366,817	July 19	1467	{ 391 392 }	{ 40 40 }	293
File for letters, papers, bills, &c.....	V. Heilbrunn.....	360,348	Mar. 29	2908	741	38	1475
File for papers, &c.....	J. Chase.....	367,959	Aug. 9	911	247	40	632
File-holder.....	T. E. Baden.....	361,975	Apr. 26	2284	594	39	447
File holder and rack.....	P. S. Dusenbury.....	359,560	Mar. 15	1659	423	38	1223
File. Letter.....	F. A. Coffin.....	365,433	June 28	1797	468	39	1451
File. Letter.....	C. W. Hawks and G. H. Warren.....	365,597	June 28	2052	535	39	1502
File. Letter.....	B. Lawrence.....	369,065	Aug. 30	2490	661	40	961
File. Letter and bill.....	J. M. Kelly.....	372,983	Nov. 8	1053	282	41	673
File. Letter and bill.....	W. H. King.....	355,614	Jan. 4	414	114	38	82
File. Letter and bill.....	E. C. McVay.....	358,870	Mar. 8	679	168	38	1033
File. Memorandum.....	K. Kneutson.....	365,607	June 28	2065	538	39	1504
File or clamp. Paper.....	M. F. Berry.....	370,116	Sept. 20	1166	309	40	1267

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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File or clip. Paper	J. Munger	363,533	May 24	2078	538	39	888
File. Paper	J. W. Barber and A. Anderson	368,566	Aug. 23	1779	473	40	815
File. Paper	C. A. Campbell	371,547	Oct. 18	1145	298	41	242
File. Paper	W. H. H. Clague	373,388	Nov. 15	1681	446	41	799
File. Paper	J. M. D. France	374,467	Dec. 6	426	111	41	1127
File. Paper	W. Jayne	364,418	June 7	295	81	39	1144
File. Paper	C. J. McRae	361,772	Apr. 26	1981	516	39	392
File. Paper	A. B. Sherwood	368,498	Aug. 16	1687	449	40	789
File. Paper	E. E. Webster	373,504	Nov. 22	1865	496	41	845
Files. Apparatus for recutting	J. E. Emley	360,517	Apr. 5	186	45	39	36
Files. Machine for cutting	C. M. Fairbanks	367,382	Aug. 2	34	9, 10	40	457
Files. Machine for cutting the edges of flat	C. M. Fairbanks	374,051	Nov. 29	2653	712	41	1005
Files. Making	C. M. Fairbanks	365,249	June 21	1523	397	39	1387
Files. Manufacturing double-cut	W. M. McDougal	371,778	Oct. 18	1481	383	41	310
Filing-case. Graduated	R. M. Hodge	367,981	Aug. 9	941	254	40	639
Filling and packing device. Combined	F. J. Steinhauser	370,427	Sept. 27	1613	{ 429 430 }	{ 40 39 }	{ 1361 435 }
Filling apparatus	J. C. Collins	361,930	Apr. 26	2207	573	39	435
Filter	C. F. W. Begemann	357,897	Feb. 15	1680	437	38	752
Filter	L. Bell	356,819	Feb. 1	104	29	38	443
Filter	W. Franklin	372,530	Nov. 1	354	97	41	538
Filter	J. W. Hyatt	355,694	Jan. 11	546	144	38	116
Filter	J. W. Hyatt	358,040	Feb. 22	1875	496	38	794
Filter	J. Klein	367,212	July 26	1995	540	40	402
Filter	A. McLean and F. Cumming	357,402	Feb. 8	948	249	38	607
Filter	W. T. Nesbet	363,668	May 24	2269	588	39	925
Filter	H. Roeske	357,505	Feb. 8	1093	288	38	634
Filter	H. Stockheim. (Reissue)	10,891	Dec. 27	2211	575	41	1498
Filter	J. Waespi, E. Fretz, J. Spellman, and J. Frey	373,257	Nov. 15	1477	390	41	760
Filter-beds. Apparatus for purifying	J. W. Hyatt	362,839	May 10	1092	296	39	683
Filter-beds in sections. Agitating	J. W. Hyatt	357,150	Feb. 1	605	155	38	532
Filter-beds in sections. Cleansing	J. W. Hyatt	359,258	Mar. 15	1197	{ 312 313 }	{ 38 38 }	{ 1139 1150 }
Filter. Cement	J. W. Hyatt	369,718	Sept. 13	560	153	40	1150
Filter. Coffee	L. W. Buxton	369,838	Sept. 13	731	195	40	1182
Filter construction and screen	J. W. Hyatt	364,934	June 14	1056	{ 275 276 277 }	{ 39 39 39 }	{ 1292 1293 1292 }
Filter-diaphragms. Abrasion of	J. W. Hyatt	364,936	June 14	1060	{ 276 277 }	{ 39 39 }	{ 1293 1292 }
Filter-diaphragms. Cleansing	J. W. Hyatt	364,935	June 14	1058	276	39	1292
Filter-diaphragms with abrading material for cleaning their surfaces. Agitating	J. W. Hyatt	366,726	July 19	1347	{ 360 361 }	{ 40 40 }	{ 272 1311 }
Filter for cisterns	F. M. Rankin	370,281	Sept. 20	1387	372	40	1311
Filter for cisterns	M. Rice	373,377	Nov. 15	1668	443	41	796
Filter-press	W. Baur	365,565	June 28	2003	522	39	1493
Filter-press for use in producing homogeneous cakes	J. Kroog	370,742	Sept. 27	2090	{ 554 555 }	{ 40 38 }	{ 1448 37 }
Filter-presses. Cloth-holder for	P. Casamajor	355,437	Jan. 4	185	49	38	37
Filter-presses. Means for packing the conduits in	J. Kroog	370,741	Sept. 27	2089	554	40	1448
Filter-presses. Suspending plates and frames in	J. Kroog	364,827	June 14	899	237	39	1263
Filter. Pressure	E. S. Hutchinson	364,932	June 14	1050	274	39	1291
Filter. Self-cleansing	F. Trebau	368,629	Aug. 23	1862	497	40	831
Filter. Steam-boiler	J. W. Hyatt	356,131	Jan. 18	1208	321	38	247
Filter. Submerged sectional	H. C. Thacher and G. H. Breymann	372,185	Oct. 25	2091	537	41	432
Filter. Water	J. W. Callard	360,850	Apr. 12	645	170	39	127
Filter. Water	W. H. Cummings	363,120	May 17	1498	396	39	767
Filter. Water	R. L. Darragh	356,242	Jan. 18	1352	357	38	274
Filter. Water	L. Fjord and J. Broters	358,112	Feb. 22	1989	524	38	813
Filter. Water	A. J. Kaiser	359,259	Mar. 15	1199	313	38	1139
Filter. Water	G. G. Kennedy, J. A. Hobart, and H. A. Kimball	372,025	Oct. 25	1845	478	41	388
Filter. Water	J. J. Morris	364,599	June 7	555	{ 149 150 }	{ 39 39 }	{ 1192 740 }
Filtering	H. Stockheim	363,019	May 17	1356	358	39	740
Filtering air. Apparatus for	J. C. Christopher	366,568	July 12	1117	299	40	223
Filtering apparatus	D. Fitz Gerald	359,249	Mar. 15	1189	310	38	1137
Filtering apparatus	J. Howes	360,441	Apr. 5	65	17, 18	39	14
Filtering-machine	J. A. Crocker	358,106	Feb. 22	1977	522	38	812
Filtering-machine	J. A. Crocker	358,107	Feb. 22	1979	522	38	812
Filtering-machine	J. A. Crocker	358,108	Feb. 22	1981	523	38	813
Filtering medium	J. W. Hyatt	369,716	Sept. 13	558	40	1150	
Filtering-plate. Compound	J. Kroog	365,134	June 21	1360	360	39	1356
Filtering substance	J. W. Hyatt	369,717	Sept. 13	559	40	1150	
Filtering-surfaces. Apparatus for cleansing	J. W. Hyatt	364,933	June 14	1052	275	39	1291
Finger-bands. Tension device for	M. E. Royce	370,893	Oct. 4	222	56	41	43
Finger-nail cleaner	G. O. Eaton	368,198	Aug. 16	1250	333	40	704
Finger-ring	F. Kaffeman	366,668	July 19	1267	337	40	257
Finger-ring	J. Scott	367,449	Aug. 2	124	36	40	475
Finger-ring	R. Weidmann	368,743	Aug. 23	2031	538	40	864
Finger-tip for counting bank-notes	E. C. Grant	371,447	Oct. 11	1007	262	41	205
Finings from fish-sounds and isinglass. Apparatus for manufacturing	E. J. Beggs	372,591	Nov. 1	451	121	41	555
Fire-alarm	A. W. Geer	362,949	May 17	1255	333	39	720
Fire-alarm	F. G. Lyon	358,864	Mar. 8	667	167	38	1031
Fire-alarm	A. Sewel	359,694	Mar. 22	1874	476	38	1280
Fire-alarm and police telegraph system	A. M. Nepper	370,885	Oct. 4	204	53	41	40
Fire-alarm box	B. S. Flanders	370,328	Sept. 20	1455	391	40	1324
Fire-alarm-box controllers. Automatic cut-off for	C. D. Rogers	375,569	Dec. 27	1987	518	41	1457
Fire-alarm system. Automatic	W. F. Singer	360,824	Apr. 5	601	158	39	113
Fire-alarm telegraphic repeater	C. Burgher	368,907	Aug. 23	2256	600	40	907
Fire and burglar alarm. Combined	I. S. Bunker	357,366	Feb. 8	891	235	38	596
Fire and burglar alarm. Electric	S. Taussig	359,823	Mar. 22	2073	525	38	1315
Fire-arm	W. F. Alston	358,915	Mar. 8	747	185	38	1046

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fire-arm	A. Chuchu	359,428	Mar. 15	1450	371	38	1185
Fire-arm	G. F. Krieger	368,924	Aug. 23	2286	608	40	913
Fire-arm	E. E. and J. H. Redfield	362,110	May 3	85	26	39	489
Fire-arm	J. W. Redfield	358,071	Feb. 22	1930	509	38	804
Fire-arm	J. J. Speed	372,182	Oct. 25	2089	{ 535 } 536	{ 41 } 41	432
Fire-arm	L. A. Stave	364,446	June 7	339	93	39	1153
Fire-arm and air-gun. Combined	J. G. Folsom	370,329	Sept. 20	1457	391	40	1324
Fire-arm. Breech-loading	W. A. G. Birkin	355,964	Jan. 11	961	251	38	194
Fire-arm. Breech-loading	V. Bovy	363,043	May 17	1394	368	39	747
Fire-arm. Breech-loading	A. T. Brown	367,089	July 26	1832	{ 493 } 494	{ 40 } 40	371
Fire-arm. Breech-loading	J. M. and M. S. Browning	359,917	Mar. 22	2226	560	38	1342
Fire-arm. Breech-loading	L. P. Diss	356,274	Jan. 18	1393	368	38	282
Fire-arm. Breech-loading	W. M. Farrow	372,213	Oct. 25	2140	{ 549 } 550	{ 41 } 41	441
Fire-arm. Breech-loading	R. I. Hampton	375,626	Dec. 27	2073	{ 539 } 540	{ 41 } 41	1471
Fire-arm. Breech-loading	C. A. King	356,321	Jan. 18	1462	385	38	295
Fire-arm. Breech-loading	C. A. King	368,401	Aug. 16	1530	409	40	760
Fire-arm. Breech-loading	D. M. Lefever	372,684	Nov. 8	594	162	41	593
Fire-arm. Breech-loading	G. S. Lewis and A. G. Lamport	371,605	Oct. 18	1228	320	41	258
Fire-arm. Breech-loading	J. W. Redfield	356,961	Feb. 1	301	83	38	478
Fire-arm. Breech-loading	W. Sonnenberg	371,390	Oct. 11	929	{ 239 } 240	{ 41 } 41	188
Fire-arm. Electric	W. L. Horne	357,960	Feb. 15	1765	463	38	768
Fire-arm. Electrical breech-loading	E. A. Monfort	365,843	July 5	115	32	40	24
Fire-arm having automatic brace for the breech-block	N. D. Folsom	357,660	Feb. 15	1344	354	38	690
Fire-arm lock	A. C. McFarland	370,966	Oct. 4	344	85	41	68
Fire-arm. Magazine	P. A. Altmaier	370,032	Sept. 20	1045	277	40	1247
Fire-arm. Magazine	J. M. and M. S. Browning	356,271	Jan. 18	1385	367	38	281
Fire-arm. Magazine	J. M. and M. S. Browning	367,336	July 26	2190	{ 589 } 590	{ 40 } 40	437
Fire-arm. Magazine	A. Burgess	357,458	Feb. 8	1028	272	38	621
Fire-arm. Magazine	A. Burgess	357,459	Feb. 8	1030	273	38	621
Fire-arm. Magazine	A. Burgess	357,460	Feb. 8	1031	273	38	622
Fire-arm. Magazine	A. Burgess	357,461	Feb. 8	1033	274	38	622
Fire-arm. Magazine	A. Burgess	357,462	Feb. 8	1035	274	38	623
Fire-arm. Magazine	A. Burgess	357,517	Feb. 8	1115	292	38	638
Fire-arm. Magazine	A. Burgess	357,518	Feb. 8	1118	293	38	638
Fire-arm. Magazine	A. Burgess	357,519	Feb. 8	1121	293	38	639
Fire-arm. Magazine	A. Burgess	366,558	July 12	1092	296	40	217
Fire-arm. Magazine	A. Burgess	366,559	July 12	1095	{ 296 } 297	{ 40 } 40	218
Fire-arm. Magazine	A. Burgess	366,560	July 12	1098	297	40	218
Fire-arm. Magazine	A. Burgess	366,561	July 12	1101	297	40	219
Fire-arm. Magazine	A. Burgess	366,562	July 12	1103	298	40	220
Fire-arm. Magazine	A. Burgess	366,563	July 12	1108	298	40	220
Fire-arm. Magazine	A. Burgess	373,438	Nov. 22	1755	465	41	824
Fire-arm. Magazine	R. S. Chaffee	368,933	Aug. 30	2306	612	40	925
Fire-arm. Magazine	L. P. Diss	356,275	Jan. 18	1395	368	38	283
Fire-arm. Magazine	C. J. Ehbets	373,277	Nov. 15	1505	{ 397 } 398	{ 41 } 41	766
Fire-arm. Magazine	W. B. Franklin	372,531	Nov. 1	356	98	41	538
Fire-arm. Magazine	F. F. Knous	358,279	Feb. 22	2223	587	38	859
Fire-arm. Magazine	F. F. Knous	372,153	Oct. 25	2052	525	41	424
Fire-arm. Magazine	W. Mason	373,298	Nov. 15	1536	{ 405 } 407	{ 41 } 41	771
Fire-arm. Magazine	F. W. Weatherhead	358,237	Feb. 22	2163	571	38	847
Fire-arm. Repeating	C. J. Bjerkness	357,170	Feb. 8	637	165	38	547
Fire-arm. Repeating	P. Mauser	370,964	Oct. 4	337	84, 85	41	67
Fire-arm. Revolving	H. M. Caldwell	370,926	Oct. 4	282	69	41	56
Fire-arm. Revolving	J. C. Howe	357,710	Feb. 15	1414	372	38	703
Fire-arm. Revolving	J. C. Howe	373,893	Nov. 29	2431	{ 652 } 653	{ 41 } 41	961
Fire-arm. Revolving	J. M. Marlin	367,820	Aug. 9	707	191	40	593
Fire-arm. Revolving	J. M. Marlin	367,821	Aug. 9	708	191	40	593
Fire-arm. Revolving	J. M. Marlin	371,608	Oct. 18	1233	321	41	259
Fire-arm. Revolving	D. H. Rice	366,794	July 19	1436	384	40	287
Fire-arm. Revolving	D. B. Wesson	371,532	Oct. 11	1122	292	41	228
Fire-arm sight	R. Gaskin, Sr.	360,678	Apr. 5	401	102	39	75
Fire-arm sight	W. Lyman	366,121	July 5	507	137	40	96
Fire-arm sight	F. J. Orr and F. C. Holman	358,747	Mar. 1	481	117	38	992
Fire-arms. Lock device for	D. B. Wesson	361,100	Apr. 12	1015	256	39	194
Fire-arms. Rear sight for	J. C. Kelton	359,680	Mar. 22	1851	470	38	1275
Fire-arms. Sight for	W. Lyman	368,598	Aug. 23	1817	483	40	823
Fire-arms. Sight-protector for	O. H. Decumbus	358,734	Mar. 1	462	113	38	990
Fire-arms. Telescopic sight for	R. C. Rice	374,202	Dec. 6	50	13	41	1056
Fire-arms. Trigger mechanism for	F. Schirmacher	360,733	Apr. 5	479	122	39	89
Fire-back. Adjustable	J. W. Keyes	369,533	Sept. 6	301	83	40	1092
Fire-box lining	A. S. Newby	359,935	Mar. 22	2259	568	38	1348
Fire-chamber	E. J. Story	372,774	Nov. 8	738	200	41	617
Fire-door	W. and W. H. Rose	358,789	Mar. 1	537	132	38	1004
Fire-engine	R. Morrell	371,209	Oct. 11	674	173	41	141
Fire-engine. Hand-pump	A. D. Elliott	375,317	Dec. 20	1648	432	41	1382
Fire-engine heater-connection	J. J. Meyrick	358,873	Mar. 8	682	169	38	1034
Fire-engine. Horse-power	M. Morton	356,778	Feb. 1	46	13	38	432
Fire-escape	S. A. Anderson	356,436	Jan. 25	1635	429	38	335
Fire-escape	O. R. Barber	370,759	Oct. 4	8	3	41	4
Fire-escape	R. Belches	365,230	June 21	1481	390	39	1381
Fire-escape	R. Bemish	369,681	Sept. 13	513	142	40	1142
Fire-escape	J. C. Betten	358,104	Feb. 22	1974	521	38	811
Fire-escape	A. J. Blew	355,917	Jan. 11	884	231	38	179
Fire-escape	E. Brantigam	358,427	Mar. 1	6	2	38	904

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fire-escape	T. F. Browder	367,362	Aug. 2	14	4	40	453
Fire-escape	W. C. Chamberlain	373,722	Nov. 22	2180	{ 583 584	{ 41	907
Fire-escape	W. Cluse	370,685	Sept. 27	2001	532	40	1432
Fire-escape	A. Connelly	368,816	Aug. 23	2130	564	40	882
Fire-escape	J. Conover and F. Conrick	375,440	Dec. 27	1813	474	41	1423
Fire-escape	J. Diss	368,075	Aug. 9	1073	286	40	663
Fire-escape	J. Dittrick	361,580	Apr. 19	1693	437	39	331
Fire-escape	J. A. Fallgatter	375,701	Dec. 27	2184	568	41	1492
Fire-escape	L. D. Fein	372,526	Nov. 1	348	96	41	536
Fire-escape	J. Fisher	374,244	Dec. 6	106	27	41	1067
Fire-escape	W. Fitzpatrick	375,279	Dec. 20	1595	418	41	1372
Fire-escape	B. Franklin	366,948	July 19	1640	439	40	326
Fire-escape	W. H. and J. D. Gray and J. B. Chastain	374,596	Dec. 13	617	161	41	1175
Fire-escape	O. Hansen	367,907	Aug. 9	833	224	40	618
Fire-escape	G. W. Hibsch	368,396	Aug. 16	1524	407	40	759
Fire-escape	O. H. Holdridge	371,585	Oct. 18	1201	313	41	252
Fire-escape	H. S. Holland	358,666	Mar. 1	368	87	38	971
Fire-escape	J. Horwitz	355,994	Jan. 11	1001	263	38	203
Fire-escape	A. Irmeler	355,451	Jan. 4	203	54	38	41
Fire-escape	H. M. Jones	362,448	May 3	529	147	39	577
Fire-escape	O. S. Judd	372,982	Nov. 8	1052	282	41	673
Fire-escape	L. H. La Roy	369,647	Sept. 6	466	130	40	1123
Fire-escape	F. Landgraf	356,650	Jan. 25	1939	508	38	393
Fire-escape	G. Larkin	356,591	Jan. 25	1850	466	38	376
Fire-escape	J. C. Lund	360,810	Apr. 5	582	152	39	110
Fire-escape	C. Matson	368,220	Aug. 16	1294	342	40	712
Fire-escape	J. M. Murphy and J. Lynn	362,527	May 10	643	181	39	602
Fire-escape	A. Nudd	362,173	May 3	164	48	39	505
Fire-escape	G. Ogden	366,681	July 19	1287	343	40	261
Fire-escape	P. G. Paris	358,293	Feb. 22	2242	{ 591 592	{ 38	862
Fire-escape	C. I. Pittman	358,125	Feb. 22	2014	{ 529 530	{ 38	817
Fire-escape	C. Schulte	355,349	Jan. 4	82	22	38	17
Fire-escape	M. Shires and J. Q. A. Kennedy	374,633	Dec. 13	669	175	41	1186
Fire-escape	G. J. Stanhope and E. B. Esty	359,643	Mar. 22	1801	458	38	1266
Fire-escape	H. C. Stockham and J. Adams	375,393	Dec. 27	1748	459	41	1410
Fire-escape	A. Stoddard	364,781	June 14	831	219	39	1250
Fire-escape	R. Sutherland	370,102	Sept. 20	1145	303	40	1264
Fire-escape	E. Sutton	369,137	Aug. 30	2584	686	40	980
Fire-escape	S. G. Underwood, Sr.	360,333	Mar. 29	2885	735	38	1471
Fire-escape	A. Van Order	370,833	Oct. 4	111	30	41	23
Fire-escape	J. M. Wakeman	371,483	Oct. 11	1050	273	41	213
Fire-escape	J. M. Wakeman	375,587	Dec. 27	2018	524	41	1462
Fire-escape	G. F. Warwick	368,633	Aug. 23	1867	498	40	832
Fire-escape	F. A. Westbrook	375,031	Dec. 20	1258	328	41	1306
Fire-escape	A. W. Wilcox and M. A. Merrill	359,526	Mar. 15	1603	{ 410 411	{ 38	1214
Fire-escape and water-tower	M. J. Hart	373,658	Nov. 22	2095	560	41	889
Fire-escape, derrick, &c.	H. Opp	364,186	May 31	3020	784	39	1073
Fire-escape, Domestic	B. Burkin and T. Melville	372,596	Nov. 1	458	123	41	556
Fire-escape, fire-extinguisher, and elevator	J. L. MacDonald	365,833	July 5	102	28, 29	40	21
Fire-escape, Friction-block	G. Pritchett	366,736	July 19	1361	364	40	274
Fire-escape, Individual	M. H. Fellows	370,612	Sept. 27	1899	504	40	1413
Fire-escape ladder	G. M. Bennett and J. Johnson	366,916	July 19	1593	426	40	318
Fire-escape ladder	D. D. Decker	363,950	May 31	2676	{ 694 695	{ 39	1006
Fire-escape ladder	G. S. Hanes and A. Shaver	362,959	May 17	1277	339	39	724
Fire-escape ladder	E. O. Roed	364,546	June 7	491	132	39	1180
Fire-escape ladder	N. Thelen	375,107	Dec. 20	1372	357	41	1327
Fire-escape ladder	A. P. Wright	369,148	Aug. 30	1595	{ 689 690	{ 40	982
Fire-escape, Portable	W. H. Roberts	363,913	May 31	2615	679	39	996
Fire-escape, Telescopic	E. H. Bayley	367,779	Aug. 9	650	{ 174 175	{ 40	582
Fire-extinguisher	J. Clapp	357,817	Feb. 15	1573	410	38	732
Fire-extinguisher	J. T. Greenwood, Jr.	368,085	Aug. 9	1085	289	40	665
Fire-extinguisher	L. C. Kidd	365,922	July 5	237	63	40	46
Fire-extinguisher	L. S. Lewis	373,563	Nov. 22	1956	519	41	860
Fire-extinguisher	J. M. Palmer	359,939	Mar. 22	2262	569	38	1349
Fire-extinguisher	C. H. Shaffer	365,639	June 28	2104	548	39	1511
Fire-extinguisher	C. H. Shaffer	367,323	July 26	2170	584	40	433
Fire-extinguisher	J. Tonge	363,187	May 17	1591	418	39	787
Fire-extinguisher and alarm	C. E. Kells, Jr.	375,636	Dec. 27	2090	544	41	1475
Fire-extinguisher and sprinkler, Automatic	J. H. Lynde	371,512	Oct. 11	1097	{ 285 286	{ 41	223
Fire-extinguisher, Automatic	J. Clapp	360,142	Mar. 29	2614	662	38	1420
Fire-extinguisher, Automatic	W. Harkness	356,874	Feb. 1	187	51	38	456
Fire-extinguisher, Automatic	J. Hill	372,977	Nov. 8	1045	280	41	672
Fire-extinguisher, Automatic	T. Johnson	370,874	Oct. 4	182	48	41	36
Fire-extinguisher, Automatic	A. F. Letson	357,719	Feb. 15	1428	375	38	705
Fire-extinguisher, Automatic	J. C. Mackey	366,177	July 5	578	155	40	109
Fire-extinguisher, Automatic	W. Neracher	361,179	Apr. 12	1143	28	39	217
Fire-extinguisher, Automatic	C. D. Rogers	364,299	June 7	130	37, 38	39	1113
Fire-extinguisher, Automatic	D. C. Stillson and E. Prescott	357,692	Feb. 15	1388	366	38	698
Fire-extinguisher, Automatic	J. D. Swallow and W. H. Keeny	374,912	Dec. 13	1072	280	41	1264
Fire-extinguisher, Automatic chemical	E. W. Beach	373,919	Nov. 29	2463	661	41	168
Fire-extinguisher, Chemical	G. H. Corey and H. B. Mitchell	366,649	July 19	1238	331	40	252
Fire-extinguisher, Chemical	J. P. Scott	357,292	Feb. 8	801	208	38	579
Fire-extinguisher, Chemical	T. G. Turner	357,161	Feb. 1	621	160	38	535
Fire-extinguisher for car-heaters	S. P. Canfield	365,237	June 21	1494	393	39	1383
Fire-extinguisher for car-heaters	E. Maguire	374,745	Dec. 13	820	215	41	1216

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fire-extinguisher for cars.....	E. P. Muller.....	375,181	Dec. 20	1470	384	41	1348
Fire-extinguisher for railway-cars.....	P. Smith.....	374,211	Dec. 6	59	15	41	1058
Fire-extinguisher for railway-cars. Automatic.....	J. N. Matlock and J. B. Fritz.....	373,594	Nov. 22	2003	531	41	869
Fire-extinguisher for railway-cars. Automatic.....	J. M. Tiernan.....	371,642	Oct. 18	1276	331	41	267
Fire-extinguisher. Hand.....	L. Bradley.....	362,485	May 10	589	166	39	592
Fire-extinguisher. Hand.....	G. L. Chapin.....	358,429	Mar. 1	8	3	38	904
Fire-extinguisher. Hand.....	J. E. Long.....	368,293	Aug. 16	1395	368	40	732
Fire-extinguisher. Hand.....	J. S. Zerbe.....	363,939	May 31	2660	691	39	1004
Fire-extinguisher. Low-water.....	W. Reams.....	365,861	July 5	147	38	40	30
Fire-extinguisher. Portable.....	E. K. Parker.....	364,667	June 14	641	172	39	1217
Fire-extinguishers. Fusible link for automatic.....	O. B. Hall.....	370,390	Sept. 27	1555	416	40	1350
Fire-extinguishing apparatus.....	W. Harkness.....	356,875	Feb. 1	189	51, 52	38	457
Fire-extinguishing apparatus.....	W. Neracher.....	372,167	Oct. 25	2067	529	41	427
Fire-extinguishing apparatus. Automatic.....	E. T. Copeland.....	358,336	Feb. 22	2295	606	38	873
Fire-extinguishing apparatus. Automatic.....	A. M. Granger.....	367,390	Aug. 2	46	12	40	460
Fire-extinguishing apparatus. Automatic.....	F. Grinnell.....	372,219	Oct. 25	2150	551	41	443
Fire-extinguishing apparatus. Automatic.....	F. Grinnell.....	372,220	Oct. 25	2151	552	41	443
Fire-extinguishing appliance.....	J. W. Cloud.....	360,998	Apr. 12	877	221	39	166
Fire-extinguishing compound.....	S. J. Sornberger.....	362,232	May 3	238	.....	39	519
Fire-fender.....	T. Ellison.....	374,951	Dec. 20	1147	300	41	1286
Fire-grenade.....	S. H. Van Houten.....	366,901	July 19	1577	422	40	315
Fire-kindler.....	G. E. and W. H. Baker.....	375,309	Dec. 20	1638	429	41	1381
Fire-kindler.....	E. R. Clough and E. M. Flynn.....	373,340	Nov. 15	1600	422	41	783
Fire-kindler.....	J. S. Maltby.....	373,465	Nov. 22	1796	478	41	832
Fire-kindler.....	R. Miller.....	359,272	Mar. 15	1216	317	38	1142
Fire-kindler.....	J. Rook.....	360,917	Apr. 12	742	.....	39	144
Fire-kindler.....	G. B. Smith and T. B. Johnson.....	364,055	May 31	2826	733	39	1037
Fire-kindler.....	C. Van Gulpen.....	363,703	May 24	2326	604	39	936
Fire-kindler.....	H. Wilcox.....	363,871	May 31	2561	665	39	986
Fire-kindler. Chemical.....	N. Johanson.....	369,184	Aug. 30	2643	702	40	992
Fire-kindling apparatus.....	J. F. Hager.....	366,393	July 12	876	235	40	173
Fire-lighter.....	F. E. Corwin.....	362,147	May 3	130	39	39	498
Fire-lighter.....	M. A. Foster.....	360,382	Mar. 29	2966	752	38	1484
Fire-place.....	W. J. Hutchinson.....	366,630	July 12	1206	323	40	238
Fire-place.....	D. P. Lewis, A. M. Johnson, and J. W. John.....	359,868	Mar. 22	2156	544	38	1329
Fire-place.....	D. C. Purvis.....	375,195	Dec. 20	1488	390	41	1352
Fire-place.....	J. T. Reaves.....	356,262	Jan. 18	1375	364	38	279
Fire-place.....	J. G. Smith.....	361,727	Apr. 26	1915	497	39	381
Fire-place.....	T. C. Vesey and W. C. White.....	361,657	Apr. 19	1813	470	39	355
Fire place and flue. Portable.....	J. W. Cooper.....	363,210	May 17	1617	425	39	791
Fire-place frame.....	F. G. Janusch.....	372,417	Nov. 1	199	56	41	507
Fire-place front.....	T. F. Pennington.....	367,440	Aug. 2	109	30	40	472
Fire-place hearth.....	J. T. Moore.....	367,054	July 26	1775	479	40	360
Fire-place heater.....	H. B. Gleason and W. H. H. Clague.....	357,079	Feb. 1	473	127	38	510
Fire-place heater.....	A. H. Hewitt.....	357,992	Feb. 15	1813	476	38	777
Fire-place heater.....	J. B. Oldershaw.....	373,846	Nov. 29	2361	634	41	948
Fire-place heater.....	J. Spear.....	362,120	May 3	96	29	39	492
Fire-place or stove.....	E. Lofts.....	367,149	July 26	1917	517	40	386
Fire-places. Fire-back and andiron for.....	H. F. Bayne and J. Dwyer.....	365,360	June 28	1683	439	39	1431
Fire-places. Protector for brick.....	G. W. Meharg.....	367,154	July 26	1925	519	40	388
Fire-proof partition.....	T. Bailey.....	369,680	Sept. 13	512	142	40	1142
Fireproofing compound.....	H. F. Watson.....	361,196	Apr. 12	1169	.....	39	222
Fire-works bracket.....	C. H. Koster.....	364,263	June 7	86	25	39	1105
Fire-works safe.....	T. Lloyd.....	372,811	Nov. 8	809	216	41	629
Fires. Compound for extinguishing.....	E. G. Penrose, H. S. Nutting, and W. H. Smith.....	366,126	July 5	517	.....	40	98
Fires in buildings. Means for obtaining access to.....	H. Eppelsheimer.....	369,636	Sept. 6	452	126	40	1121
Fires in cars and other places. Automatic apparatus for extinguishing.....	I. T. Dyer.....	375,314	Dec. 20	1644	431	41	1382
Fires in malt, grain, or other mills. Mechanism for extinguishing.....	P. J. Parsons.....	374,157	Nov. 29	2802	752	41	1033
Fires. Life-saving net for use at.....	H. Bonner.....	360,082	Mar. 29	2509	638	38	1402
Fires. Means for the extinguishment of.....	W. S. Gray.....	357,987	Feb. 15	1805	474	38	775
Fires on railway-trains. Apparatus for extinguishing.....	J. F. McLaughlin.....	367,350	July 26	2213	{ 594 } { 595 }	{ 40 } { 41 }	441
Fish-hook.....	H. C. Pennell.....	356,499	Jan. 25	1724	450	38	352
Fish-hook attachment.....	M. Lester.....	372,686	Nov. 8	597	162	41	593
Fish-hook. Gang.....	A. Pfaff.....	356,661	Jan. 25	1954	513	38	396
Fish-line reel.....	F. Gundorph.....	364,509	June 7	426	115	39	1168
Fish. Machine for cutting.....	W. S. Moses.....	356,725	Jan. 25	2031	534	38	410
Fish or game trap.....	G. Thomas.....	366,984	July 19	1683	452	40	334
Fish-plate.....	H. F. Cox.....	372,659	Nov. 8	558	152	41	585
Fish. Transporting live.....	W. G. Murphy.....	360,391	Mar. 29	2976	.....	38	1486
Fish-trap.....	J. Brosch.....	373,333	Nov. 15	1593	420	41	782
Fish-trap.....	A. H. McDowell.....	375,175	Dec. 20	1463	382	41	1346
Fish-trap.....	J. P. Smith.....	356,797	Feb. 1	78	22	38	438
Fish-trap.....	T. Thompson.....	361,470	Apr. 19	1543	399	39	303
Fish-trap.....	J. M. Treat.....	363,263	May 17	1683	441	39	804
Fish-trap and feeding-pen.....	E. W. Jenkins.....	370,702	Sept. 27	2029	540	40	1438
Fisherman's pole-rest.....	E. B. A. Zwoyer and G. W. Auge.....	358,527	Mar. 1	175	41	38	935
Fishing. Artificial bait for.....	W. A. Cooke.....	360,339	Mar. 29	2894	737	38	1473
Fishing-buoy.....	E. W. Clark.....	360,418	Apr. 5	23	7	39	6
Fishing device. Automatic.....	C. McCabe.....	371,777	Oct. 18	1478	{ 382 } { 383 }	{ 41 } { 41 }	309
Fishing device. Deep-sea.....	E. A. Ramsdell.....	356,789	Feb. 1	65	18	38	435
Fishing-hook.....	C. D. Lockhead.....	373,991	Nov. 29	2567	690	41	988
Fishing hook and line.....	F. Hubbard.....	372,677	Nov. 8	582	158	41	590
Fishing-line reel.....	W. B. Carpenter.....	368,277	Aug. 16	1377	363	40	728
Fishing-line reel.....	W. D. F. Jarvis.....	368,922	Aug. 23	2281	607	40	912
Fishing-line reel.....	E. Titus, Jr.....	369,622	Sept. 6	432	121	40	1117
Fishing-reel.....	J. Calder.....	360,758	Apr. 5	510	{ 131 } { 132 }	{ 39 } { 39 }	96
Fishing-reel.....	T. H. Chubb.....	370,684	Sept. 27	1999	532	40	1432

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fishing-reel.....	A. Geils.....	374,737	Dec. 13	810	213	41	1214
Fishing-reel.....	H. B. Gibson.....	371,055	Oct. 4	465	116	41	91
Fishing-reel.....	H. C. A. Kasschau.....	365,602	June 28	2060	537	39	1503
Fishing-reel.....	A. N. Pettengill.....	361,890	Apr. 26	2159	560	39	425
Fishing-reel.....	E. B. Porter.....	374,319	Dec. 6	215	57	41	1086
Fishing-reel attachment.....	E. Griffin.....	357,988	Feb. 15	1807	474	38	776
Fishing-rod.....	E. Horton.....	359,153	Mar. 8	1053	274	38	1105
Fishing-rod.....	A. Huth.....	364,350	June 7	196	54	39	1126
Fishing-rod.....	S. G. Monce.....	372,165	Oct. 25	2065	528	41	427
Fishing-rod case.....	G. Kamp.....	357,206	Feb. 8	688	178	38	558
Fishing-rod joint.....	T. Kirker.....	373,561	Nov. 22	1954	518	41	860
Fishing-rods. Line-guide for.....	J. Wright.....	358,420	Feb. 22	2410	641	38	894
Fishing-rods. Reel-holder for.....	J. Brower.....	370,925	Oct. 4	281	69	41	56
Fishway.....	W. H. Rogers.....	366,257	July 12	700	190	40	140
Flag-staffs, &c. Apparatus for repairing and extending.....	B. Vitalis.....	366,141	July 5	532	143	40	100
Flambeau.....	E. F. Vaughn and C. States.....	365,284	June 21	1571	409	39	1396
Flanging-machine.....	J. T. Macleod.....	364,425	June 7	304	83, 84	39	1146
Flanging-machine and drill-press. Combined.....	J. O'Brien.....	362,308	May 3	330	90, 91	39	538
Flat-iron heater.....	E. A. Nelms.....	357,406	Feb. 8	953	251	38	607
Flat-iron stand.....	R. Crommer and A. H. Phillips.....	359,204	Mar. 8	1117	291	38	1117
Flat-iron stand.....	O. E. Goodrich.....	371,060	Oct. 4	471	118	41	93
Flaxseed and grain separator.....	T. R. Rosier.....	365,863	July 5	148	39	40	30
Flaxseed-separator.....	L. S. Welker and H. Kiffe.....	359,044	Mar. 8	915	233	38	1078
Flexible tube.....	H. Knight.....	367,301	July 26	2144	577	40	428
Flier. Speeder.....	J. A. V. Smith.....	355,794	Jan. 11	698	182	38	145
Flood-gate.....	M. T. Bedford.....	363,793	May 31	2450	636	39	966
Flood-gate.....	J. Dimond.....	370,769	Oct. 4	27	6, 7	41	8
Floor-boards. Gage for.....	J. F. Hostetter.....	369,988	Sept. 13	965	255	40	1224
Floor-clamp.....	J. F. Brown and G. F. Edgington.....	371,169	Oct. 11	622	159	41	131
Floor-clamp.....	M. D. Good.....	361,060	Apr. 12	958	242	39	182
Floor-covering.....	D. C. Stover.....	361,194	Apr. 12	1166	295	39	221
Floor-cramp.....	A. S. Bayer.....	366,446	July 12	932	254	40	185
Floor. Fire-proof.....	J. Jameton.....	361,361	Apr. 19	1400	360	39	276
Floor-jack.....	W. E. Bradley.....	364,794	June 14	854	224	39	1254
Floor-jack.....	J. L. Fredericks.....	375,147	Dec. 20	1427	373	41	1338
Floor, roof, or area covering.....	P. H. Jackson.....	367,343	July 26	2202	591	40	439
Floor. Stable.....	M. St. German.....	357,875	Feb. 15	1650	429	38	747
Floor. Stall.....	A. J. Lansing.....	360,452	Apr. 5	81	21	39	16
Floors, &c. Covering for.....	R. F. Nenninger.....	359,623	Mar. 22	1776	452	38	1261
Floors of theaters and halls. Device for raising and lowering.....	G. G. Adams.....	366,290	July 12	737	200	40	147
Floors. Laying hollow concrete fire-proof.....	P. M. Bruner.....	356,704	Jan. 25	2006	526	38	405
Floors, &c. Manufacturing coverings for.....	R. F. Nenninger.....	358,059	Feb. 22	1911	.....	38	800
Flooring-clamp.....	W. Sellers.....	367,243	July 26	2053	554	40	413
Flooring. Machine for making tongue-and-groove.....	G. Johnson, Jr.....	366,841	July 19	1502	{ 401 402 }	{ 40 40 }	300
Floral piece. Illuminated.....	R. E. Wilson.....	362,691	May 10	890	242	39	646
Flour and meal bin. Portable.....	T. J. Cox.....	359,347	Mar. 15	1318	342	38	1160
Flour and meal chest.....	F. M. Huff and J. Taylor.....	358,155	Feb. 22	2053	540	38	825
Flour bin and sifter. Combined.....	F. Sieb.....	370,093	Sept. 20	1125	298	40	1261
Flour-bolt.....	H. O. Dorsey.....	368,879	Aug. 23	2215	589	40	900
Flour-bolt.....	H. J. Gilbert.....	371,678	Oct. 18	1331	{ 344 345 }	{ 41 41 }	279
Flour-bolt.....	A. Heine.....	355,526	Jan. 4	299	80	38	60
Flour-bolt.....	O. M. Morse.....	374,490	Dec. 6	458	118	41	1133
Flour-bolt.....	G. T. Smith and W. F. Cochrane.....	374,500	Dec. 6	471	122	41	1136
Flour-bolt.....	G. T. Smith and W. F. Cochrane.....	374,501	Dec. 6	473	122	41	1136
Flour-bolting reel.....	F. E. McMaster.....	364,428	June 7	309	85	39	1147
Flour-chest.....	D. W. McCullough.....	375,680	Dec. 27	2156	561	41	1486
Flour. Drying.....	J. Norton, Jr.....	357,092	Feb. 1	496	131	38	514
Flour-mill. Roller.....	N. Cornelius.....	373,342	Nov. 15	1602	423	41	784
Flour-packer.....	O. A. C. Conant.....	367,599	Aug. 2	355	101	40	519
Flour-packer.....	F. W. Howell.....	366,167	July 5	563	{ 151 152 }	{ 40 40 }	106
Flour-packer.....	G. Y. Smith.....	367,857	Aug. 9	759	204	40	604
Flour-packing machine.....	J. B. Allfree.....	359,951	Mar. 22	2279	{ 572 573 }	{ 38 38 }	1352
Flour receptacle and sifter. Combined.....	F. A. Tyler.....	360,065	Mar. 29	2483	631	38	1397
Flouring-mills. Gravity-separator for.....	E. T. Butler.....	366,923	July 19	1602	429	40	320
Flower. Artificial.....	W. Eggert, Jr.....	355,982	Jan. 11	987	259	38	200
Flower. Artificial.....	A. Heck.....	370,140	Sept. 20	1204	318	40	1276
Flower. Perfumed artificial.....	S. Palmer.....	369,878	Sept. 13	795	212	40	1193
Flower-pot.....	G. A. Burroughs.....	357,698	Feb. 15	1396	367	38	699
Flower-pot and flower-pot holder.....	G. D. Tolman.....	365,555	June 28	1985	517	39	1489
Flower-stand. Adjustable.....	Z. Walker.....	375,519	Dec. 27	1912	501	41	1443
Flowers from fur. Manufacture of imitation.....	E. Friedlander.....	363,058	May 17	1412	373	39	750
Flue-cleaner.....	C. F. W. Doehring.....	357,309	Feb. 8	826	215	38	583
Flue-cleaner.....	H. Kees.....	373,461	Nov. 22	1790	476	41	831
Flue-cleaner.....	E. L. Mansfield.....	373,747	Nov. 22	2214	592	41	913
Flue cleaner. Boiler.....	F. L. McGahan.....	367,826	Aug. 9	717	193	40	595
Flue or chimney lining.....	H. McMahan.....	357,018	Feb. 1	384	104	38	493
Flue-regulator.....	J. Cant.....	355,919	Jan. 11	887	232	38	180
Flue-scraper.....	E. D. Weston.....	361,736	Apr. 26	1926	500	39	383
Flues. Safety-base for.....	F. Anderson.....	367,692	Aug. 2	506	139	40	546
Fluid heating and cooling apparatus.....	A. G. Meeze.....	373,564	Nov. 22	1958	{ 519 520 }	{ 41 41 }	861
Fluid-regulator. Automatic electric.....	R. C. Page and F. H. Soden.....	358,691	Mar. 1	404	97	38	979
Fluids underpressure. Making metallic receivers for.....	W. H. Brown.....	360,993	Apr. 12	865	219	39	164
Flumes and ditches. Automatic screen for.....	D. B. Hunt.....	365,521	June 28	1935	504	39	1479
Flush-tank.....	F. Cuntz.....	373,885	Nov. 29	2416	649	41	959
Flushing apparatus for canals, water-closets, &c. Automatic.....	T. Kommerell and E. Edwards.....	358,677	Mar. 1	384	92	38	975
Flushing-tank.....	T. H. Platt.....	363,166	May 17	1561	411	39	780

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Flushing-tank	J. J. Ricketts	356,894	Feb. 1	216	60	38	461
Flux	W. Rennyson	369,961	Sept. 13	922		40	1217
Fly. Artificial	T. B. Mills	361,965	Apr. 26	2273	591	39	445
Fly-frames. Bolster for	A. L. Durgin	356,194	Jan. 18	1286	340	38	261
Fly-hook	E. A. Warren	361,099	Apr. 12	1014	256	39	194
Fly-paper	L. H. Gardner	360,957	Apr. 12	807	207	39	155
Fly-screen	C. W. Chatterton	356,349	Jan. 18	1509	397	38	304
Fly-screen	J. Neifing	372,484	Nov. 1	293	81	41	526
Fly-trap. Window	W. T. Parks	356,374	Jan. 18	1542	405	38	310
Fodder-binder	C. H. Beeler	356,976	Feb. 1	327	88	38	483
Fodder-cutter	A. P. Gould and H. R. Spencer	360,010	Mar. 29	2383	{ 602 603 }	{ 38 38 }	1378
Fodder-cutter	G. N. Joss	357,009	Feb. 1	372	99	38	491
Fodder loading and unloading machine. Shock-	J. P. Sanders	368,243	Aug. 16	1324	349	40	717
Fodder-press	G. H. Clemmer	371,739	Oct. 18	1428	369	41	299
Fodder-stacker	W. J. F. Yohnka	363,877	May 31	2569	667	39	988
Fog-horn	G. White	357,802	Feb. 15	1554	405	38	728
Fog-horn. Steam	C. A. Davis	357,469	Feb. 8	1045	276	38	625
Fog-signal	E. E. Mann	361,430	Apr. 19	1491	385	39	293
Fog-signal	F. A. Norcross	361,776	Apr. 26	1985	517	39	393
Fog-whistle machine	J. L. Chase	358,648	Mar. 1	338	81, 82	38	966
Folding and adjustable table	F. A. Blackmer	366,069	July 5	438	119	40	83
Folding box	O. M. Hamilton	366,773	July 19	1410	377	40	283
Folding box	C. J. Hasbrouck	367,624	Aug. 2	389	110	40	526
Folding box or crate	J. C. and W. L. Thompson	363,700	May 24	2321	{ 602 603 }	{ 39 39 }	935
Folding bracket	W. F. Gage	372,215	Oct. 25	2146	550	41	442
Folding chair	L. M. Fitch	367,749	Aug. 2	599	162	40	563
Folding chair	J. P. Gage	369,931	Sept. 13	879	233	40	1209
Folding chair	E. L. Gaylord	357,591	Feb. 15	1240	326	38	671
Folding chair	A. L. Hines	358,554	Mar. 1	218	50	38	944
Folding chair	C. H. Lambkin	370,265	Sept. 20	1371	368	40	1308
Folding chair	J. E. Wakefield	356,218	Jan. 18	1321	349	38	267
Folding gate or door	A. Bataille	358,956	Mar. 8	798	202	38	1056
Folding-machines. Paster attachment for	F. Wuelfing	373,547	Nov. 22	1937	513	41	857
Folding seat	U. L. Collins	362,720	May 10	927	253	39	654
Folding seat	S. W. Knott	359,790	Mar. 22	2027	{ 513 514 }	{ 38 38 }	1306
Folding seat or chair	A. H. Underwood	372,881	Nov. 8	909	245	41	646
Folding table	J. T. Bon	367,589	Aug. 2	339	97	40	516
Folding table	J. T. Bon	368,055	Aug. 9	1043	280	40	657
Folding table	M. C. Bullock	358,833	Mar. 8	612	152	38	1022
Folding table	S. S. Case	356,618	Jan. 25	1896	498	38	384
Folding table	T. H. Enlass	362,825	May 10	1074	291	39	680
Folding table	W. R. Fee	357,074	Feb. 1	468	125	38	509
Folding table	H. A. Hulet	369,856	Sept. 13	753	202	40	1186
Folding table	C. A. Main	362,522	May 10	636	180	39	601
Folding table	L. J. Woodruff	365,034	June 14	1198	316	39	1317
Food. Apparatus for heating and canning	J. Baker	369,424	Sept. 6	157	46	40	1062
Food. Bird-	J. D. Heins	365,995	July 5	336		40	64
Food compound	J. H. Stebbins, Jr	369,660	Sept. 6	485		40	1127
Food for horses. Prepared	J. B. Pinchard	355,837	Jan. 11	759		38	155
Food for infants and invalids. Soluble	J. Carnrick	375,601	Dec. 27	2039		41	1465
Foot and sitz bath. Folding	R. Sabin	357,040	Feb. 1	420	112	38	499
Foot-guard	L. R. Spalding and G. F. Adams	359,899	Mar. 22	2283	555	38	1338
Foot-power	D. D. Camp	356,921	Feb. 1	247	68	38	467
Foot-power	J. H. Purdy	373,483	Nov. 22	1828	487	41	839
Foot-rest	S. G. Scarritt	371,373	Oct. 11	904	232	41	184
Foot-rest	L. Stuck	360,487	Apr. 5	131	32	39	25
Foot-rest	J. W. Tilley	366,437	July 12	923	250	40	183
Foot-rest and kneeling-stool. Combined	H. Morrison	365,446	June 28	1818	473	39	1455
Foot-warmer	R. Hartman and J. P. Frow	372,145	Oct. 25	2043	523	41	422
Foot-warmer	C. Nelson	364,950	June 14	1081	281	39	1297
Foot-warmer	G. Reimers	371,277	Oct. 11	769	197	41	159
Force of a blow. Coin-operated apparatus for indicat-	P. Everitt	374,050	Nov. 29	2651	{ 711 712 }	{ 41 41 }	1004
Force of blows. Machine for indicating the	J. Tyler	358,706	Mar. 1	425	183	38	983
Forceps	G. W. Melotte	370,204	Sept. 20	1292	344	40	1293
Forceps. Electric	J. Brannan and W. E. Stone	371,664	Oct. 18	1307	339	41	274
Forcing-frame	J. Siem	374,499	Dec. 6	470	121	41	1136
Forge. Portable	M. Ehrgott	366,469	July 12	963	262	40	192
Forges. Clutching device for	C. Hammelmann	369,177	Aug. 30	2635	699	40	991
Forges. Cover for heating	M. Deering	369,168	Aug. 30	2621	696	40	988
Forging car-wheels. Die for	J. Rigby	362,112	May 3	87	26	39	490
Forging hammers. Mechanism for	H. H. Warren	359,113	Mar. 8	1005	259	38	1096
Forging-machine	C. Syverson	371,638	Oct. 18	1270	{ 329 330 }	{ 41 41 }	266
Forging shifting-rails. Die for	J. M. Davidson	358,966	Mar. 8	811	205	38	1059
Forgings. Die for making rolled	G. F. Simonds	358,628	Mar. 1	311	74	38	961
Forgings. Die for making rolled	G. F. Simonds	358,629	Mar. 1	312	75	38	961
Forgings. Machine for forming hollow	C. P. Higgins	364,347	June 7	191	53, 54	39	1125
Fork:							
See Carving-fork.	Saddle-tree fork.						
Hay-fork.	Velocipede-fork.						
Fork	H. D. Alexander	368,503	Aug. 16	1695	451	40	790
Fork, rake, &c	J. T. Bridges	366,371	July 12	849	228	40	167
Fortification for coast and harbor defense	T. L. Sturtevant	370,501	Sept. 27	1727	{ 458 459 }	{ 40 40 }	1381
Foundry apparatus	J. M. Hays	371,582	Oct. 18	1197	{ 311 312 }	{ 41 41 }	251
Foundry-patterns. Making	H. A. Garvey	372,793	Nov. 8	764	206	41	622
Fountain:							
See Centrifugal fountain. Wash-boiler fountain.							
Pen-fountain.							
Fountain-trap	G. W. Wicks	359,759	Mar. 22	1981	501	38	1297

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fowls' throats. Instrument for removing worms from.	N. Metz	371,614	Oct. 18	1240	323	41	260
Fracture apparatus	H. H. Clark	369,839	Sept. 13	732	196	40	1182
Frame:							
<i>See</i> Bag-frame. Photographic-printing							
Bag and valise frame. frame.							
Bag or satchel frame. Piano-action frame.							
Bed-frame. Picture-frame.							
Canopy-frame. Quarry-frame.							
Car-frame. Saw-frame.							
Chimes-frame. Sewing-machine quilting-							
Clothes-drying frame.							
frame. Sign-frame.							
Compositor's frame. Slate-frame.							
Display-frame. Spectacle-frame.							
Embroidery-frame. Spinning-frame.							
Eyeglass or specta- Stretcher-frame.							
cle frame. Tobacco-wagon frame.							
Fire-place frame. Umbrella-frame.							
Forcing-frame. Wagon-frame.							
Grindstone-frame. Watch-movement frame.							
Lantern-frame. Window-frame.							
Looking-glass frame. Window, picture, or							
Net-frame. other frame.							
Ornamental frame. Window-screen frame.							
Photographic frame. Wool-packing frame.							
Frame adapted for use with various machines	E. T. McKaig	361,534	Apr. 19	1621	420	39	319
Frame for pictures, mirrors, &c	F. Damlos	359,316	Mar. 15	1277	331	38	1154
Frame for portable structures	A. W. Tourgee	359,749	Mar. 22	1959	497	38	1294
Frame for trimmings	G. A. Bisler	355,501	Jan. 4	268	71	38	54
Frame-hanger. Adjustable	A. J. Wiegand	373,707	Nov. 22	2164	579	41	903
Frame-joints. Stretcher and fastener for	W. G. and J. L. Rawbone	368,236	Aug. 16	1313	346	40	715
Frames. Metallic joint for	A. F. Temple	364,973	June 14	1110	{ 289 290 }	{ 39 39 }	1302
Freezer. Ice-cream	W. Tunstill	372,393	Nov. 1	163	46	41	500
Fringe	C. Weinberg	362,689	May 10	889	242	39	646
Fringe. Manufacturing netted	C. W. Jackson	358,452	Mar. 1	41	11	38	911
Fringe. Manufacturing shaped chenille	S. Steinecke	365,494	June 28	1884	491	39	1468
Frog	J. A. Durvin	375,613	Dec. 27	2057	534	41	1468
Frog	T. A. Griffin	360,683	Apr. 5	407	104	39	76
Fruit-assorters. Feed-regulator for automatic	T. Hiatt	374,153	Nov. 29	2796	751	41	1032
Fruit-boxes. Machine for making	B. Kemper	356,478	Jan. 25	1696	443	38	346
Fruit-clipper	C. H. Curtis	364,222	June 7	31	9	39	1094
Fruit-conveyer	T. C. Graves	366,721	July 19	1343	359	40	271
Fruit-drier	A. Blatchly	373,808	Nov. 29	2309	619	41	939
Fruit-drier	G. A. and C. F. Fleming	362,736	May 10	947	{ 258 259 }	{ 39 39 }	657
Fruit-drier	A. J. Hatch	371,684	Oct. 18	1343	{ 347 348 }	{ 41 41 }	281
Fruit-drier	T. W. Owens	361,075	Apr. 12	981	248	39	187
Fruit-drier	C. Pattenger	365,319	June 21	1621	422	39	1406
Fruit-drier	C. A. Pitkin, Sr.	374,697	Dec. 13	753	198	41	1203
Fruit-drier	C. A. Pitkin, Sr.	374,698	Dec. 13	755	198	41	1204
Fruit-drier	S. Stigler	361,905	Apr. 26	2177	564	39	429
Fruit-evaporator	N. Glynn	367,514	Aug. 2	235	68	40	496
Fruit-evaporator	W. S. Plummer	371,785	Oct. 18	1492	385	41	311
Fruit, foliage, and flowers. Artificial	E. H. Eve	363,736	May 24	2369	615	39	944
Fruit-gatherer	C. E. Cook	356,451	Jan. 25	1657	434	38	339
Fruit-gatherer	E. E. Evans	363,220	May 17	1631	428	39	794
Fruit-gatherer	J. Honecker	359,211	Mar. 8	1131	294	38	1119
Fruit-gatherer	H. Woodhurst	362,475	May 3	569	158	39	584
Fruit-jar	D. E. Ashby	360,131	Mar. 29	2600	659	38	1417
Fruit-jar	W. Heston and J. M. Akers	371,685	Oct. 18	1346	348	41	281
Fruit-jar	R. E. King	359,449	Mar. 15	1477	378	38	1191
Fruit-jar	H. L. Lovejoy	365,928	July 5	246	65	40	48
Fruit-jar	J. Perkins	359,886	Mar. 22	2182	550	38	1334
Fruit jar cover	L. P. R. Le Compte	360,165	Mar. 29	2654	670	38	1427
Fruit, milk, &c. Vessel for heating or cooling	E. K. Sumnerwell	358,085	Feb. 22	1946	514	38	807
Fruit-picker	B. D. Eaton	359,777	Mar. 22	2010	508	38	1303
Fruit-picker	A. Haas	358,776	Mar. 1	518	127	38	1000
Fruit-picker	J. R. Hunter	357,770	Feb. 15	1521	396	38	722
Fruit-picker	G. J. Kuehn	371,951	Oct. 25	1742	451	41	369
Fruit-picker	W. S. Mallard	355,941	Jan. 11	927	242	38	188
Fruit-picker	O. M. Martz and J. Keener	368,297	Aug. 16	1401	370	40	734
Fruit-picker	B. M. Moyer	363,078	May 17	1436	380	39	755
Fruit-picker	M. H. Murphy	362,650	May 10	835	228	39	635
Fruit-picker	S. Shroyer	374,375	Dec. 6	294	77	41	1102
Fruit-picker	G. C. Thompson	363,437	May 24	1928	506	39	859
Fruit-press	R. M. Hunter	370,015	Sept. 13	1013	268	40	1233
Fruit, vegetable, and bread cutter	C. F. Rigby	372,173	Oct. 25	2075	532	41	429
Frying-pan	F. J. Morgan	366,860	July 19	1528	410	40	305
Fuel. Apparatus for feeding	{ T., Sr., J., Sr., T., Jr., and J. Vic- ars, Jr. }	364,194	May 31	3027	{ 786 787 }	{ 39 39 }	1075
Fuel. Artificial	J. I. Irving	374,679	Dec. 13	727	.....	41	1198
Fuel. Artificial	G. Wandrey and R. J. Schimper	367,014	July 19	1716	.....	40	341
Fuel. Artificial	G. Wandrey and R. J. Schimper	367,015	July 19	1716	.....	40	341
Fuel-box	S. G. Smith	371,714	Oct. 18	1393	359	41	292
Fuel. Controlling the supply of atomized	G. W. Davison	364,708	June 14	706	{ 188 189 }	{ 39 39 }	1229
Fuel. Feed-regulator for liquid	J. F. Irons	370,336	Sept. 20	1466	{ 393 394 }	{ 40 40 }	1326
Fuel. Process of and apparatus for producing and consuming gaseous	J. W. Mitchell	373,468	Nov. 22	1800	479	41	833
Fumigator	G. S. Boin	370,233	Sept. 20	1328	354	40	1299
Fumigator	W. F. Line	363,403	May 24	1870	491	39	848

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fumigator	W. A. Loughry	372,477	Nov. 1	284	78	41	525
Funeral-advertising device or annunciator	J. E. Grosjean	361,760	Apr. 26	1961	511	39	389
Funnel	A. Gersdorff	357,476	Feb. 8	1054	279	38	627
Funnel	F. A. Lyman	374,875	Dec. 13	1009	264	41	1251
Funnel	C. Rehn	368,007	Aug. 9	984	264	40	646
Fur-blowing machine	T. F. Fay	369,699	Sept. 13	536	148	40	1146
Fur or skin drying oven	A. Alstadt	371,535	Oct. 18	1129	295	41	239
Fur-plucking machine	I. Dresdner	367,200	July 26	1980	535	40	399
Furnace:							
See Annealing-furnace. Litharge-furnace.							
Bagasse-furnace. Locomotive-furnace.							
Baking-furnace. Malt-kiln furnace.							
Blast-furnace. Ore-reducing furnace.							
Boiler-furnace. Ore-roasting furnace.							
Cellular furnace. Plumber's or tinner's fur-							
nace.							
Cremation-furnace. Portable furnace.							
Crucible-furnace. Puddling-furnace.							
Electric furnace. Regenerative furnace.							
Gas-furnace. Reheating-furnace.							
Gas-generating fur- Revolving furnace.							
nace.							
Gas-retort furnace. Smelting-furnace.							
Glass-melting fur- Smoke-consuming fur-							
nace.							
Hearth-furnace. Steam and hot-air furnace.							
Heat-radiating fur- Steam-generating fur-							
nace.							
Heating-furnace. Straw-burning furnace.							
Hot-air furnace. Tire-heating furnace.							
Hydrocarbon-fur- Ventilating-furnace.							
nace.							
Liquid-fuel furnace. Welding-furnace.							
Wood-burning furnace.							
Furnace	H. A. Alter	366,807	July 19	1451	388	40	290
Furnace	A. Backus, Jr.	365,772	July 5	5	2	40	3
Furnace	R. D. Baldwin, F. Doyle, and A. A. Thomas.	374,285	Dec. 6	156	41	41	1077
Furnace	W. D. Bartlett	363,977	May 31	2728	707	39	1017
Furnace	R. O. Benton	370,597	Sept. 27	1871	497	40	1407
Furnace	C. H. Bicalky	372,738	Nov. 8	670	184	41	606
Furnace	F. Doyle and G. W. Carson	368,460	Aug. 16	1632	436	40	779
Furnace	J. Evans	366,657	July 19	1249	334	40	254
Furnace	C. J. M. Hayna	369,285	Aug. 30	2772	739	40	1017
Furnace	W. C. Higgins	358,037	Feb. 22	1871	495	38	793
Furnace	A. J. Holden	365,071	June 21	1263	333	39	1340
Furnace	E. R. Howard	355,318	Jan. 4	35	10	38	8
Furnace	J. L. Judge	367,638	Aug. 2	416	116	40	530
Furnace	S. G. Lane	362,979	May 17	1301	345	39	728
Furnace	A. Ritter, Jr.	374,999	Dec. 20	1213	316	41	1298
Furnace	L. Ryan	375,002	Dec. 20	1217	318	41	1299
Furnace	J. Springer	363,261	May 17	1681	440	39	804
Furnace	R. Steel	373,030	Nov. 8	1134	303	41	686
Furnace	W. Swindell	367,251	July 26	2064	557	40	415
Furnace	E. W. Tucker	363,264	May 17	1684	441	39	805
Furnace	E. W. Vanduzen	360,182	Mar. 29	2678	676	38	1432
Furnace air-regulator	F. C. Smith	366,038	July 5	398	108	40	75
Furnace and apparatus for burning bagasse	P. Sodal	375,461	Dec. 27	1839	481	41	1429
Furnace and boiler	J. W. Walters	372,584	Nov. 1	442	119	41	554
Furnace and burner for burning hydrocarbon oil	W. Field	370,251	Sept. 20	1349	361	40	1304
Furnace attachment	J. M. Dick	361,933	Apr. 26	2213	575	39	436
Furnace-charging mechanism	F. H. Daniels	367,194	July 26	1971	533	40	397
Furnace-door	W. Kearney	374,190	Dec. 6	37	10	41	1053
Furnace-door	O. D. Orvis	371,094	Oct. 4	514	130	41	101
Furnace-door opener and closer	W. A. Joyner and C. N. Petesch	358,977	Mar. 8	827	209	38	1062
Furnace-door operator	J. De Lambert	373,966	Nov. 29	2532	681	41	980
Furnace-doors. Device for opening and closing	W. M. Bowman	361,394	Apr. 19	1442	373	39	284
Furnace draft attachment	G. W. Wheeler	365,557	June 28	1989	519	39	1491
Furnace for burning bagasse	J. B. Dunn	364,228	June 7	40	13, 14	39	1096
Furnace for burning wet and offensive substances	A. Engle	372,305	Nov. 1	27	9, 10	41	476
Furnace for expanding locomotive-tires	N. H. Brown	355,859	Jan. 11	791	208	38	161
Furnace for fruit-driers and other uses	H. S. Jory	356,045	Jan. 11	1070	281	38	216
Furnace for hot-houses	W. A. White	358,635	Mar. 1	320	77	38	963
Furnace for hot-houses, &c.	W. A. White	371,397	Oct. 11	939	242	41	190
Furnace for smelting and reducing metals from min- } erals.	R. Bonehill	359,199	Mar. 8	1111	289 } 290 }	38	1115
Furnace for the combustion of refuse	J. E. Stafford and J. T. Pearson	363,558	May 24	2113	547 } 548 }	39	895
Furnace for treating town and other refuse	J. Richmond and T. Birtwistle	372,172	Oct. 25	2073	531 } 532 }	41	429
Furnace fuel-feeder	L. Y. Cochran and W. I. Lindsay	368,813	Aug. 23	2125	563	40	881
Furnace-grate	E. Boutcher	366,450	July 12	939	256	40	186
Furnace-grate	S. E. Burke	360,849	Apr. 12	643	170	39	127
Furnace-grate	J. De Pereira	375,136	Dec. 20	1414	368	41	1335
Furnace-grate	C. W. Echerson	367,378	Aug. 2	30	8	40	457
Furnace-grate	T. Kirkwood. (Reissue)	10,863	Aug. 30	2815	750	40	1026
Furnace-grate	L. M. Woodcock	359,120	Mar. 8	1013	261 } 262 }	38	1097
Furnace grate. Boiler-	R. S. Watson	358,004	Feb. 15	1830	482	38	780
Furnace-lining	E. C. Condit	358,545	Mar. 1	195	46	38	939
Furnace-lining	R. L. Walker	360,494	Apr. 5	143	34, 35	39	27
Furnace-mold	E. Wheeler	361,198	Apr. 12	1171	296	39	222
Furnace-protecting	F. W. Gordon, V. O. Strobel, and B. Beisel.	358,604	Mar. 1	285	68	38	956
Furnace-register	J. Munson	372,271	Oct. 25	2225	570	41	458

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr's.	Vol.	Page.
Furnaces. Air-feeding device for.....	T. W. Jenkins.....	357,391	Feb. 8	934	246	38	605
Furnaces and means for operating them. Rocking-bars for.....	J. Settle.....	372,176	Oct. 25	2083	533	41	431
Furnaces and steam-heating. Device for moistening the air for hot-air.....	A. W. Schulenburg.....	373,858	Nov. 29	2378	640	41	952
Furnaces. Apparatus for promoting combustion in.....	W. Oliphant.....	364,953	June 14	1084	282	39	1297
Furnaces. Attachment for boiler.....	W. H. Harris and J. C. Kafer.....	373,557	Nov. 22	1950	517	41	859
Furnaces. Attachment for smelting.....	E. R., Jr., and O. R. Moffet.....	359,882	Mar. 22	2177	549	38	1333
Furnaces. Automatic stock-indicator for.....	A. E. Brown.....	368,064	Aug. 9	1055	282	40	659
Furnaces. Bridge-wall for.....	E. W. Tucker.....	367,124	July 26	1880	{ 509 510 }	{ 40 39 }	379
Furnaces. Draft-regulator for.....	W. Fischer and T. Stiehl.....	372,409	Nov. 1	185	52	41	504
Furnaces. Feeder for bagasse.....	W. W. Taylor.....	364,871	June 14	965	254	39	1276
Furnaces. Feeding air to steam-boiler.....	A. Horton and B. J. Wright.....	368,670	Aug. 23	1919	510	40	843
Furnaces. Hot-air duct for.....	H. B. Dewey.....	369,169	Aug. 30	2622	696	40	988
Furnaces. Mechanical feeder for.....	G. Alexis-Godillot.....	363,953	May 31	2693	697	39	1009
Furnaces. Refractory lining for metallurgical.....	T. Twynam.....	371,233	Oct. 11	708	.....	41	148
Furnaces. Vapor-pan for hot-air.....	J. P. Schaffer.....	361,551	Apr. 19	1644	426	39	323
Furnaces. Water-heating attachment for hot-air.....	W. M. Mackay.....	371,269	Oct. 11	759	195	41	157
Furnaces. Water-jack for smelting.....	W. J. Godfrey.....	367,904	Aug. 9	829	222	40	618
Furniture.....	S. Hayward.....	356,938	Feb. 1	268	74	38	470
Furniture. Adjustable and separable.....	S. Hayward.....	363,389	May 24	1854	{ 487 488 }	{ 39 39 }	845
Furniture and fire-escape. Combined household.....	A. J. Cron.....	361,992	Apr. 26	2307	600	39	451
Furniture base or support.....	H. G. Powell.....	364,668	June 14	643	172	39	1217
Furniture. Concealed repository in cabinet.....	M. Samuels.....	373,311	Nov. 15	1558	412	41	775
Furniture. Folding.....	F. Shannon.....	375,574	Dec. 27	1996	519	41	1458
Furniture. Foot-block and caster attachment for.....	J. B. Brolaski.....	364,796	June 14	857	{ 224 225 }	{ 39 39 }	1255
Furniture-joint.....	J. R. Wood and C. C. Nicholls.....	371,116	Oct. 4	546	139	41	108
Furniture-leg.....	J. Burt.....	365,362	June 28	1684	439	39	1431
Furniture-legs. Floor-plate for.....	W. I. Bunker.....	371,875	Oct. 18	1629	420	41	339
Furniture-nail.....	L. Scofield.....	360,919	Apr. 12	743	195	39	145
Furniture-pad.....	T. F. N. Finch.....	370,614	Sept. 27	1901	505	40	1413
Furniture. Rocking.....	E. L. Dunklee.....	363,995	May 31	2748	713	39	1021
Furniture. School.....	A. G. Wicker.....	365,288	June 21	1578	410	39	1397
Furniture. Upholstered.....	J. C. Camburn.....	370,314	Sept. 20	1438	385	40	1320
Furniture. Wall-protecting attachment for.....	H. H. Gates.....	366,474	July 12	969	263	40	152
Furniture wall-protector.....	F. Barrows.....	365,225	June 21	1476	389	39	1380
Fuse-cutter, cap-setter, and inserter. Combined.....	F. G. Winnek.....	355,960	Jan. 11	957	250	38	194
Fuse. Electric.....	C. D. Hale.....	365,179	June 21	1419	374	39	1368
Fuse for projectiles.....	K. J. Sundström.....	374,640	Dec. 13	679	179	41	1188
Fuse. Metallic.....	A. Noble.....	372,814	Nov. 8	811	217	41	630
Fuse or firing mechanism for projectiles.....	E. Tangye.....	364,318	June 7	152	43	39	1117
Fuse used to explode gunpowder. Machine for calibrating the.....	A. Noble.....	372,699	Nov. 8	614	167	41	596
Fusee. Railway.....	A. F. Andrews.....	358,371	Feb. 22	2344	622	38	881
Fuses for blasting. Machine for testing the water-proof quality of.....	F. Jordan.....	356,135	Jan. 18	1212	321	38	248
Fusible cut-out.....	G. A. Saunders.....	372,491	Nov. 1	302	83	41	528
Gag-bit.....	C. G. Perkins.....	361,713	Apr. 26	1898	492	39	378
Gage.....	J. M. Dunn.....	355,442	Jan. 4	193	52	38	39
See Air or gas gage. Micrometer pipe-gage.							
Boiler-gage. Pressure-gage.							
Button-hole-marking gage. Printer's gage.							
Caliper-gage. Saw-table gage.							
Carpenter's gage. Sewing-machine gage.							
Cutting-tool gage. Siding-gage.							
Drawing-knife gage. Surface and marking gage.							
End-gage. Track-gage.							
Locomotive-tire gage. Water-gage.							
Micrometer-gage. Weather-board gage.							
Micrometer depth-gage. Wood-working-machine gage.							
Gage.....	W. F. Briggs.....	371,417	Oct. 11	964	250	41	196
Gage.....	H. Price.....	357,628	Feb. 15	1287	338	38	680
Gage.....	G. H. Russell.....	368,854	Aug. 23	2184	579	40	893
Gage and dividers. Combined.....	S. Copeland.....	363,600	May 24	2173	563	39	907
Gage-comb.....	O. C. Hubbell.....	357,201	Feb. 8	683	177	38	557
Gage for determining the smallest circle which will produce a given square.....	F. H. Osborne.....	367,229	July 26	2033	548	40	409
Gage for moldings.....	W. T. Farrell.....	360,213	Mar. 29	2714	{ 686 687 }	{ 38 38 }	1438
Gage-knife.....	J. W. Russell.....	368,855	Aug. 23	2185	579	40	893
Gaiter.....	J. H. Elliott.....	373,062	Nov. 15	1181	316	41	707
Galley.....	G. E. Jones.....	365,308	June 21	1603	417	39	1402
Galley and proof-press. Combined multiple.....	J. Henry.....	358,857	Mar. 8	662	165	38	1030
Galley-support. Reversible.....	C. C. Blakeley.....	372,955	Nov. 8	1010	272	41	665
Galvanic appliance. Sanitary.....	P. H. Vander Weyde.....	357,647	Feb. 15	1323	.....	38	686
Galvanic batteries. Carbon electrode for.....	C. H. Wilder.....	375,034	Dec. 20	1262	.....	41	1307
Galvanic batteries. Connection for carbon elements in.....	W. P. Kookogey.....	360,532	Apr. 5	203	50	39	40
Galvanic batteries. Electrolyte and depolarizer for.....	W. C. Quinby.....	355,412	Jan. 4	159	.....	38	32
Galvanic batteries. Solution for.....	D. H. Fitch.....	361,004	Apr. 12	884	.....	39	168
Galvanic battery.....	J. T. Armstrong.....	372,193	Oct. 25	2112	542	41	436
Galvanic battery.....	J. A. Barrett.....	374,863	Dec. 13	991	259	41	1248
Galvanic battery.....	H. J. Brewer.....	359,055	Mar. 8	930	237	38	1081
Galvanic battery.....	H. J. Brewer.....	367,359	Aug. 2	11	3	40	453
Galvanic battery.....	H. J. Brewer.....	369,769	Sept. 13	623	168	40	1161
Galvanic battery.....	H. J. Brewer.....	373,435	Nov. 22	1752	464	41	823
Galvanic battery.....	S. A. Chase.....	357,550	Feb. 8	1167	306	38	648
Galvanic battery.....	H. B. Cox.....	372,658	Nov. 8	557	152	41	585

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Galvanic battery.....	H. B. Cox.....	375,441	Dec. 27	1814		41	1423
Galvanic battery.....	F. J. Crouch.....	374,456	Dec. 6	408	106	41	1124
Galvanic battery.....	P. R. De Fauchaux d'Humy.....	367,705	Aug. 2	522	143	40	549
Galvanic battery.....	L. A. W. Desruelles.....	359,063	Mar. 8	940	{ 239 240 }	38	1083
Galvanic battery.....	V. Francken and E. Bender.....	364,639	June 14	609	.....	39	1210
Galvanic battery.....	J. Freeman.....	374,669	Dec. 13	717	188	41	1195
Galvanic battery.....	C. Gassner, Jr.....	373,064	Nov. 15	1185	.....	41	707
Galvanic battery.....	H. I. Harris.....	367,294	July 26	2137	575	40	427
Galvanic battery.....	J. W. Howell.....	373,021	Nov. 8	1116	297	41	684
Galvanic battery.....	P. Jablochkoff.....	360,158	Mar. 29	2643	668	38	1425
Galvanic battery.....	J. F. McLaughlin.....	375,559	Dec. 27	1976	514	41	1454
Galvanic battery.....	J. B. Perreux-Lloyd.....	358,464	Mar. 1	59	15	38	914
Galvanic battery.....	J. A. Seely.....	369,034	Aug. 30	2443	648	40	952
Galvanic battery.....	C. Seiler.....	366,034	July 5	394	107	40	74
Galvanic battery.....	J. Serson.....	367,451	Aug. 2	128	37	40	476
Galvanic battery.....	J. Serson.....	374,631	Dec. 13	667	175	41	1185
Galvanic battery.....	J. Serson.....	375,007	Dec. 20	1223	319	41	1300
Galvanic battery.....	W. H. Tasker and T. J. Jones.....	358,087	Feb. 22	1948	514	38	807
Galvanic battery.....	H. E. Waite.....	374,329	Dec. 6	227	60, 61	41	1089
Galvanic battery.....	S. F. Walker.....	361,794	Apr. 26	2013	.....	39	399
Galvanic battery and apparatus connected therewith.	A. R. Upward and C. W. Pridham.....	357,646	Feb. 15	1319	{ 347 348 }	38	686
Galvanic-battery cell.....	J. R. Hard.....	364,344	June 7	187	52	39	1124
Galvanic-battery solution.....	W. P. Kookogey.....	360,024	Mar. 29	2411	.....	38	1382
Galvanic cell.....	W. E. Case.....	368,191	Aug. 16	1235	330	40	701
Galvanic cell.....	L. Drescher.....	369,505	Sept. 6	259	72	40	1083
Galvanic cell.....	W. Frishmuth.....	358,030	Feb. 22	1859	491	38	791
Galvanic cell.....	W. Frishmuth.....	358,031	Feb. 22	1860	492	38	791
Galvanic cell.....	N. W. Perry.....	356,727	Jan. 25	2036	535	38	411
Galvanic ring.....	H. N. Rowell.....	371,521	Oct. 11	1108	289	41	225
Galvanometer.....	H. B. Cox.....	366,305	July 12	762	205	40	152
Galvanometer. Electric.....	P. Lange.....	366,409	July 12	892	240	40	177
Galvanometer. Electric.....	P. Lange and O. B. Shallenberger.....	366,410	July 12	893	{ 240 241 }	40	177
Game.....	H. Guillaume.....	375,419	Dec. 27	1782	466	41	1417
Game.....	J. M. Hughes.....	366,318	July 12	777	210	40	155
Game.....	J. F. McCormick.....	371,340	Oct. 11	856	219	41	175
Game.....	E. K. McGill.....	367,991	Aug. 9	955	257	40	641
Game and advertising board. Combined.....	W. W. and J. A. Le Seur.....	373,745	Nov. 22	2211	592	41	913
Game apparatus.....	A. Dingman.....	362,432	May 3	502	142	39	572
Game apparatus.....	O. N. Kyle.....	363,146	May 17	1532	{ 404 405 }	39	774
Game apparatus.....	M. Muringer.....	362,898	May 10	1181	316	39	700
Game apparatus.....	W. S. Reed.....	363,848	May 31	2532	658	39	981
Game apparatus.....	M. T. Wheeler.....	370,224	Sept. 20	1316	350	40	1297
Game apparatus. Parlor.....	J. P. Lundeen.....	370,074	Sept. 20	1100	292	40	1257
Game. Ball.....	A. M. Freeman.....	373,136	Nov. 15	1289	343	41	727
Game-board.....	W. L. Finley and H. B. Kirkwood.....	356,870	Feb. 1	182	48	38	455
Game-board.....	W. F. Kelly.....	370,628	Sept. 27	1920	509	40	1417
Game-board.....	A. E. Seliger.....	359,820	Mar. 22	2070	524	38	1315
Game-carrier.....	P. Cunningham.....	362,879	May 10	1148	308	39	694
Game-counter.....	J. F. Champlin.....	364,704	June 14	702	187	39	1228
Game-counter.....	C. W. Le Count.....	359,792	Mar. 22	2029	514	38	1306
Game-counter.....	E. Meise.....	374,803	Dec. 13	907	237	41	1233
Game-counter and card-box. Combined.....	G. H. Massa.....	375,558	Dec. 27	1974	514	41	1454
Game of base-ball. Home-base for.....	R. M. Keating.....	357,675	Feb. 15	1365	360	38	693
Game or puzzle. Geometrical.....	A. Niggemann.....	368,484	Aug. 16	1661	443	40	784
Game. Parlor.....	T. E. Parfitt.....	355,947	Jan. 11	933	244	38	189
Game-register.....	E. Griswold.....	359,562	Mar. 15	1663	424	38	1224
Game-table.....	W. R. Davis.....	362,611	May 10	769	212	39	623
Game-table.....	F. X. Ganter and T. L. Borst.....	364,999	June 14	1149	301	39	1309
Game-trap.....	T. Alexander.....	371,727	Oct. 18	1412	365	41	296
Garbage-receptacle.....	E. G. Xander.....	357,258	Feb. 8	757	197	38	570
Garden-rake.....	G. W. Hertzell.....	359,255	Mar. 15	1195	312	38	1138
Garment.....	J. Holroyd.....	366,105	July 5	479	130	40	90
Garment-adjuster.....	R. R. Gillespie.....	371,056	Oct. 4	466	117	41	92
Garment. Bifurcated.....	J. Stiefel.....	375,219	Dec. 20	1520	399	41	1358
Garment-clasp.....	W. W. Anderson.....	365,662	June 28	2143	559	39	1518
Garment clasp or fastener.....	J. Ewig.....	375,699	Dec. 27	2182	567	41	1491
Garment-fastener.....	I. Morse.....	357,621	Feb. 15	1278	336	38	678
Garment-fastener.....	A. M. Shirk.....	371,222	Oct. 11	693	178	41	145
Garment-fastener.....	A. Walther and M. Supple.....	365,452	June 28	1825	475	39	1457
Garment or cuff holder.....	S. P. Babcock.....	369,903	Sept. 13	831	220	40	1201
Garment-protector.....	A. F. Langdon.....	373,897	Nov. 29	2438	654	41	962
Garment. Reversible.....	H. L. Meltzer.....	365,841	July 5	113	31	40	23
Garment-stand.....	W. H. Knapp.....	373,988	Nov. 29	2562	{ 688 689 }	41	987
Garment-stretcher.....	D. P. Mullins.....	373,027	Nov. 8	1131	302	41	686
Garment-supporter.....	J. D. Banfield.....	355,369	Jan. 4	103	28	38	22
Garment-supporter.....	H. H. Buckland.....	361,984	Apr. 26	2298	598	39	449
Garment-supporter.....	T. Gentzsch and G. A. Witte, Jr.....	366,827	July 19	1482	395	40	296
Garment-supporter.....	M. T. Jones.....	360,224	Mar. 29	2736	693	38	1443
Garment-supporter.....	R. J. Kyle.....	359,616	Mar. 22	1769	449	38	1259
Garment-supporter.....	J. T. Lister.....	360,809	Apr. 5	582	152	39	110
Garment-supporter.....	F. W. Lowe.....	359,730	Mar. 22	1926	489	38	1289
Garment-supporter.....	C. L. Olmstead and A. D. Nason.....	364,037	May 31	2805	727	39	1033
Garment-supporter.....	C. A. Preston.....	368,550	Aug. 16	1757	467	40	802
Garment-supporter.....	A. Ralph.....	361,239	Apr. 12	1233	313	39	234
Garment-supporter.....	A. P. Rindskopf.....	357,155	Feb. 1	613	158	38	534
Garment-supporter.....	H. A. Seymour.....	356,665	Jan. 25	1958	514	38	397
Garment-supporter.....	R. H. Sink.....	359,365	Mar. 15	1348	348	38	1166
Garment-supporter.....	C. Sisson.....	359,366	Mar. 15	1349	348	38	1166
Garment-supporter.....	G. W. Stewart.....	356,174	Jan. 18	1263	333	38	257

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Garment-supporter.....	C. F. Sullivan.....	374,715	Dec. 13	781	205	41	1208
Garment-supporter.....	L. S. White.....	364,387	June 7	245	69	39	1135
Garment-supporter.....	R. S. Willard.....	356,860	Feb. 1	165	44	38	453
Garment-supporter.....	R. S. Willard.....	356,861	Feb. 1	166	45	38	453
Garment-supporter.....	R. S. Willard.....	357,137	Feb. 1	585	150	38	529
Garment-supporting attachment.....	A. M. Ziegler.....	367,492	Aug. 2	204	57	40	491
Garment-supporting clasp.....	W. H. Cushing.....	367,371	Aug. 2	24	6	40	455
Garment-turning device.....	S. L. Otis.....	372,324	Nov. 1	58	18	41	482
Garments. Apparatus for cutting.....	E. Hood.....	363,237	May 17	1649	433	39	797
Garments. Binding.....	R. S. Green.....	364,586	June 7	539	145	39	1190
Garments. Device for renovating.....	A. Shanley.....	357,791	Feb. 15	1542	402	38	726
Garments. Elastic gore or section for.....	J. Kendrick.....	359,395	Mar. 15	1402	359	38	1176
Garments. Fastening stiffening-strips to.....	L. H. Day.....	366,936	July 19	1620	434	40	323
Garments. Fitting.....	E. Brooke.....	355,583	Jan. 4	373	100	38	75
Garments. Ornamenting.....	F. Kopp.....	366,405	July 12	889	239	40	176
Garments. Safety-pocket for.....	A. Brenowitz.....	363,586	May 24	2151	557	39	903
Garments. Shape-retainer for the breasts of.....	J. Markmann.....	357,397	Feb. 8	940	247	38	606
Garments. Spring or reed for supporting.....	A. Benjamin.....	361,982	Apr. 26	2296	597	39	449
Garments. Waistband for.....	W. E. Smith.....	363,486	May 24	2007	524	39	876
Garter.....	F. Armstrong.....	365,770	July 5	2	1	40	3
Gas-alarm burner.....	J. McDermott.....	374,614	Dec. 13	642	168	41	1180
Gas-alarm. Electrical.....	W. McVay.....	358,161	Feb. 22	2061	542	38	827
Gas and air compressor and dry vacuum-pump.....	A. Osenbrück.....	358,689	Mar. 1	401	97	38	978
Gas and electric-light fixture. Combined.....	S. Bergmann.....	375,117	Dec. 20	1384	360	41	1330
Gas and oil engine. Combined.....	T. Shaw.....	367,937	Aug. 9	879	239	40	627
Gas and preventing its explosion. Apparatus for detecting leakage of.....	T. J. Martin and J. T. Budd.....	362,523	May 10	637	180	39	601
Gas apparatus.....	A. Taylor.....	360,977	Apr. 12	837	214	39	160
Gas. Apparatus for enriching.....	H. J. Seibel, Jr.....	358,413	Feb. 22	2402	639	38	892
Gas. Apparatus for enriching illuminating.....	F. B. Strunz.....	355,626	Jan. 4	430	118	38	85
Gas. Apparatus for generating.....	A. A. Harwood.....	356,247	Jan. 18	1359	359	38	275
Gas. Apparatus for generating an illuminating and heating.....	W. T. Stewart.....	362,467	May 3	559	155	39	582
Gas. Apparatus for generating illuminating.....	R. Boeklen.....	363,945	May 31	2667	{ 692 } 693	{ 39 } 39	1005
Gas. Apparatus for making.....	A. Langdon.....	360,533	Apr. 5	204	50	39	40
Gas. Apparatus for making and storing.....	J. J. Powers.....	366,874	July 19	1544	414	40	308
Gas. Apparatus for making fuel.....	A. C. Huidekoper and L. Houze.....	375,161	Dec. 20	1448	379	41	1343
Gas. Apparatus for manufacturing.....	B. Brazelle.....	365,294	June 21	1583	412	39	1398
Gas. Apparatus for manufacturing.....	A. B. Lipsey.....	370,957	Oct. 4	329	82	41	65
Gas. Apparatus for manufacturing heating and illuminating.....	W. A. Myers and S. H. Altice.....	361,641	Apr. 19	1786	462	39	351
Gas. Apparatus for manufacturing heating and illuminating.....	J. Roberts.....	371,978	Oct. 25	1781	461	41	377
Gas. Apparatus for manufacturing illuminating and heating.....	J. Hanlon.....	367,619	Aug. 2	379	107	40	524
Gas. Apparatus for manufacturing illuminating and heating.....	J. Hanlon.....	367,620	Aug. 2	382	{ 108 } 109	{ 40 } 40	525
Gas. Apparatus for producing and washing carbonic-acid.....	J. H. Digeon.....	375,611	Dec. 27	2054	533	41	1467
Gas. Apparatus for the manufacture of.....	A. L. Allen.....	356,863	Feb. 1	168	45	38	453
Gas. Apparatus for the manufacture of.....	H. W. Brooks.....	358,378	Feb. 22	2353	{ 625 } 626	{ 38 } 38	883
Gas. Apparatus for the manufacture of.....	W. F. M. McCarty.....	355,331	Jan. 4	54	15	38	12
Gas. Apparatus for the manufacture of fuel and illuminating.....	J. Bujac.....	365,906	July 5	210	54	40	41
Gas. Apparatus for the manufacture of heating and illuminating.....	J. Roberts.....	372,238	Oct. 25	2179	{ 559 } 560	{ 41 } 41	449
Gas. Apparatus for the manufacture of illuminating.....	F. Egner.....	368,882	Aug. 23	2218	590	40	900
Gas. Apparatus for treatment of natural.....	H. J. Hyams.....	356,071	Jan. 11	1110	{ 293 } 294	{ 38 } 38	223
Gas apparatus. Valve for.....	W. T. Bate.....	357,896	Feb. 15	1679	437	38	752
Gas bath-heater.....	D. L. McCahan.....	375,424	Dec. 27	1789	468	41	1418
Gas-burner.....	F. G. Bielefeld.....	365,899	July 5	197	50	40	38
Gas-burner.....	W. Boekel.....	358,332	Feb. 22	2292	604	38	872
Gas-burner.....	J. Burgess.....	364,986	June 14	1133	297	39	1307
Gas-burner.....	G. K. Cooke.....	361,674	Apr. 26	1846	{ 478 } 479	{ 39 } 39	370
Gas-burner.....	J. A. Dearborn.....	362,497	May 10	605	171	39	595
Gas-burner.....	C. S. Ford.....	362,829	May 10	1080	293	39	681
Gas-burner.....	J. E. Gill and T. M. Foley.....	364,101	May 31	2889	749	39	1049
Gas-burner.....	G. H. Gregory.....	363,892	May 31	2587	672	39	991
Gas-burner.....	J. Irwin.....	362,968	May 17	1288	342	39	726
Gas-burner.....	W. M. Jackson.....	375,070	Dec. 20	1314	343	41	1317
Gas-burner.....	W. M. Jackson.....	375,071	Dec. 20	1315	343	41	1317
Gas-burner.....	D. R. Kline.....	365,606	June 28	2064	538	39	1504
Gas-burner.....	A. B. Lipsey.....	358,560	Mar. 1	225	52	38	945
Gas-burner.....	C. M. Lungren.....	365,831	July 5	99	28	40	21
Gas-burner.....	T. Sheehan.....	366,891	July 19	1565	419	40	312
Gas-burner.....	J. R. Smith.....	375,578	Dec. 27	2001	520	41	1459
Gas-burner.....	C. B. Todd.....	370,107	Sept. 20	1152	305	40	1265
Gas-burner.....	A. Wasserman.....	355,805	Jan. 11	709	185	38	147
Gas-burner.....	A. F. Zimmerling.....	369,421	Sept. 6	154	45	40	1061
Gas-burner. Argand.....	E. F. Gennert.....	358,344	Feb. 22	2308	610	38	875
Gas-burner. Electric.....	C. W. Holtzer.....	360,696	Apr. 5	431	111	39	80
Gas burner for heating purposes. Atmospheric.....	A. Locker.....	364,270	June 7	94	27	39	1107
Gas burner. Fuel.....	M. and E. M. Love.....	366,780	July 19	1420	380	40	285
Gas burner. Hydrocarbon.....	F. Jarecki.....	366,321	July 12	783	211	40	156
Gas-burner. Incandescent.....	J. S. Sellon.....	372,933	Nov. 8	976	265	41	659
Gas burner. Natural.....	C. M. Young.....	367,945	Aug. 9	889	241	40	628
Gas-burner. Regenerative.....	T. Gordon.....	374,058	Nov. 29	2662	{ 715 } 716	{ 41 } 41	1007
Gas-burner regulator.....	H. W. Rappleye.....	369,960	Sept. 13	921	245	40	1216

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Gas-burner. Self-closing	S. D. Locke	357,840	Feb. 15	1606	416	38	738
Gas-burner tip	W. M. Jackson	361,160	Apr. 12	1117	283	39	212
Gas-burner tip	W. M. Jackson	361,161	Apr. 12	1119	283	39	212
Gas-burner tip	E. T. Thomas	366,527	July 12	1053	286	40	209
Gas-burner tip	E. T. Thomas and W. V. Phillips	366,528	July 12	1054	287	40	209
Gas-burner-tip cleaner	J. J. Lawlor	374,075	Nov. 29	2688	722	41	1012
Gas-burners. Attachment for	H. T. Foote	361,818	Apr. 26	2045	532	39	404
Gas-burners. Automatic extinguisher for	J. Prentice	370,816	Oct. 4	85	23	41	19
Gas-burners. Cut-off for	F. X. Wagner	374,096	Nov. 29	2719	730	41	1019
Gas-burners. Safety attachment for	E. R. Pruitt	364,729	June 14	733	195	39	1235
Gas-burners. Safety-lock for	F. R. Drinkhouse and E. Ziesche	372,789	Nov. 8	761	205	41	621
Gas. Combined supply and regulating valve for	H. Stewart	366,351	July 12	824	221	40	162
Gas. Composite burner for fuel	F. Barnhart	365,959	July 5	290	77	40	55
Gas-compressor valves. Buffer for	M. L. Mitchell	356,597	Jan. 25	1856	489	38	378
Gas-controlling apparatus	F. H. Hambleton	364,644	June 14	615	{ 165 166 }	{ 39 39 }	{ 1211 1211 }
Gas cut-off	W. R. Field and L. E. Hogue	361,684	Apr. 26	1859	482	39	372
Gas cut-off	F. M. Margach	372,036	Oct. 25	1876	484	41	392
Gas cut-off. Automatic	A. Bryce	372,960	Nov. 8	1017	273	41	667
Gas device. Safety illuminating	J. H. Musgrave	363,343	May 17	1795	470	39	825
Gas-distribution. Long-distance	G. Westinghouse, Jr.	365,454	June 28	1827	475	39	1457
Gas-distribution. Safety appliance for	A. Wales	366,539	July 12	1065	289	40	212
Gas-engine	J. Atkinson	367,496	Aug. 2	208	58, 59	40	491
Gas-engine	C. W. Baldwin	368,444	Aug. 16	1601	{ 428 429 }	{ 40 40 }	{ 773 773 }
Gas-engine	C. W. Baldwin	368,445	Aug. 16	1605	{ 429 430 }	{ 40 40 }	{ 774 774 }
Gas-engine	H. Campbell	367,184	July 26	1957	{ 528 529 }	{ 40 40 }	{ 394 394 }
Gas-engine	J. Charter	356,447	Jan. 25	1649	433	38	338
Gas-engine	J. Charter	370,242	Sept. 20	1337	357	40	1301
Gas-engine	L. T. Cornell	359,920	Mar. 22	2234	561	38	1343
Gas-engine	F. W. Crossley	370,322	Sept. 20	1447	388	40	1323
Gas-engine	C. J. B. Gaume	374,056	Nov. 29	2658	{ 714 715 }	{ 41 41 }	{ 1006 1006 }
Gas-engine	F. W. Ofeldt	356,419	Jan. 18	1605	421	38	321
Gas-engine	A. Schmid and J. C. Beckfeld	362,187	May 3	177	53, 54	39	508
Gas-engine	A. Schmid and J. C. Beckfeld	371,793	Oct. 18	1505	{ 388 389 }	{ 41 41 }	{ 314 314 }
Gas-engine	A. Schmid and J. C. Beckfeld. (Re-issue.)	10,878	Nov. 1	538	{ 147 148 }	{ 41 41 }	{ 573 573 }
Gas-engine	R. Von Kalkreuth	358,134	Feb. 22	2027	533	38	820
Gas-engine	J. S. Wood	363,497	May 24	2023	527	39	879
Gas-engines. Electric igniter for	N. C. Bassett	359,552	Mar. 15	1643	420	38	1221
Gas-engines. Hydrocarbon and gas-impulse feeder for	T. Shaw	367,936	Aug. 9	878	238	40	626
Gas expander and burner	J. Rigby	365,633	June 28	2098	{ 546 547 }	{ 39 39 }	{ 1510 1510 }
Gas-expander and shade-holder	J. Rigby	365,539	June 28	1958	510	39	1485
Gas-extinguisher. Automatic	J. Héroux	374,066	Nov. 29	2675	718	41	1009
Gas fire-place	T. T. McNish	374,801	Dec. 13	902	236	41	1232
Gas-fixture	A. W. Zimmerman	363,787	May 24	2439	632	39	958
Gas-furnace	E. L. Clark	364,215	June 7	24	7	39	1093
Gas-furnace	C. V. Henry	373,018	Nov. 8	1113	296	41	683
Gas-furnace	H. W. Loss	365,395	June 28	1745	452	39	1442
Gas-furnace	F. Radcliffe	357,030	Feb. 1	401	108	38	496
Gas-furnace	W. Swindell	368,254	Aug. 16	1342	{ 353 354 }	{ 40 40 }	{ 721 721 }
Gas-furnace	J. H. Taylor	365,950	July 5	280	73	40	53
Gas-furnace	W. W. Waplington	370,578	Sept. 27	1847	490	40	1402
Gas-furnace for heating blanks	E. F. Carpenter	356,923	Feb. 1	250	69	38	467
Gas furnace. Water	C. W. Dwelle and R. B. Stapp	361,996	Apr. 26	2318	605	39	452
Gas-generating apparatus	C. W. Isbell and W. H. Taylor	372,803	Nov. 8	794	{ 212 213 }	{ 41 41 }	{ 627 627 }
Gas-generating apparatus	J. A. Price	363,481	May 24	1993	{ 520 521 }	{ 39 39 }	{ 873 873 }
Gas-generating furnace	H. B. Van Benthuyzen	363,023	May 17	1364	{ 360 361 }	{ 39 39 }	{ 741 741 }
Gas-generating machine	L. C. Huber	366,168	July 5	567	{ 152 153 }	{ 40 40 }	{ 107 107 }
Gas-generator	A. Ordonez y Ponce	360,240	Mar. 29	2760	{ 700 701 }	{ 38 38 }	{ 1447 1447 }
Gas-generator	H. Pratt and J. J. Ryan	301,078	Apr. 12	985	249	39	188
Gas generator. Carbonic-acid	J. F. Behlmer	357,696	Feb. 15	1394	367	38	699
Gas generator. Oil	A. F. Randall	367,844	Aug. 9	740	{ 199 200 }	{ 40 40 }	{ 601 601 }
Gas-generators. Acid-chamber for	H. Hoff	365,254	June 21	1532	399	39	1389
Gas-governor	L. P. Blair	374,445	Dec. 6	395	103	41	1120
Gas-governor	S. J. Wakeley	362,685	May 10	881	240	39	644
Gas-heater water-back	J. T. and E. E. Phillips	373,602	Nov. 22	2015	534	41	872
Gas-holder	C. G. Fairchild	357,276	Feb. 8	779	202	38	574
Gas in the atmosphere. Apparatus for measuring the carbonic-acid	A. Wolpert	371,653	Oct. 18	1290	335	41	270
Gas-incandescent	C. A. Von Welsbach	359,524	Mar. 15	1600	.....	38	1213
Gas. Inlet for natural	T. Shelton	366,035	July 5	395	107	40	74
Gas-light. Incandescent	C. M. Lungren	367,534	Aug. 2	259	74	40	501
Gas-lighter. Electric	J. B. Entz	374,528	Dec. 6	513	135	41	1145
Gas-lighter. Electric	C. W. Holtzer	364,760	June 14	792	209	39	1244
Gas-lighter. Electric	J. J. McGowen	370,801	Oct. 4	70	18	41	16
Gas-lighting apparatus. Electric	C. B. Bosworth	359,053	Mar. 8	928	237	38	1081
Gas-lighting apparatus. Electric	C. B. Bosworth	375,118	Dec. 20	1385	360	41	1330
Gas-lighting apparatus. Electric	I. Fisher	364,235	June 7	50	15	39	1098
Gas-lighting. Spark-coil for	R. Eickemeyer	375,614	Dec. 27	2058	534	41	1468
Gas-lighting system. Electric	G. F. Perkins and J. P. Hurley	367,841	Aug. 9	736	199	40	600

Alphabetical list of inventions--Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Gas-lighting. System of electric.....	W. H. Doering	375,414	Dec. 27	1774	465	41	1416
Gas-machine	A. J. English and J. Stubbers	368,660	Aug. 23	1898	506	40	838
Gas-machine	B. T. Stauber	362,234	May 3	242	69	39	520
Gas-machine	A. C. Swaine	368,982	Aug. 30	2371	630	40	938
Gas-machines. Mechanism for driving	H. Allender	366,061	July 5	427	116	40	81
Gas-main	J. N. Pew	373,093	Nov. 15	1224	327	41	715
Gas-main joint	E. C. Converse	362,205	May 3	203	60	39	513
Gas-main joint	G. N. Riley	372,568	Nov. 1	417	112	41	550
Gas-mains. Pipe-joint for	F. Moore	364,947	June 14	1074	280	39	1296
Gas-mains. Pipe-joint for	J. Norton and S. Briggs	371,782	Oct. 18	1486	384	41	311
Gas-mains. Pipe-joint for	W. H. Richards	371,787	Oct. 18	1495	386	41	312
Gas-making apparatus	F. H. Hambleton	361,820	Apr. 26	2047	533	39	405
Gas. Manufacture of	A. Taylor	359,335	Mar. 15	1304	338	38	1158
Gas. Manufacture of water	J. M. Rose	370,971	Oct. 4	350	87	41	69
Gas. Manufacture of water	J. M. Rose	370,972	Oct. 4	353	87	41	70
Gas. Manufacture of water	J. M. Rose	370,973	Oct. 4	355	88	41	70
Gas. Manufacturing	W. P. Lane	356,720	Jan. 25	2026	533	38	409
Gas marine engine. Explosive	G. Daimler	361,931	Apr. 26	2210	574	39	435
Gas-meter	H. J. Bell	373,003	Nov. 8	1087	290 } 291 }	41	679
Gas-meter	W. Cowan	358,187	Feb. 22	2106	556	38	835
Gas-meter	J. A. Fardy	355,516	Jan. 4	285	76	38	57
Gas-meter	A. Langlais and P. English	360,026	Mar. 29	2413	611 } 612 }	38	1384
Gas-meter. Piston	A. C. Christensen	373,923	Nov. 29	2468	663	41	969
Gas-meter registering separately the consumption by night and by day	J. Wybauw	363,937	May 31	2658	690	39	1003
Gas-meters. Price-indicator and pressure-regulator for	R. A. Potter	372,928	Nov. 8	970	263	41	658
Gas-motor	W. Gavillet and L. Martaresche	357,193	Feb. 8	671	174	38	554
Gas-motor	E. Körting	366,116	July 5	501	135	40	95
Gas-motor	F. Von Martini	358,796	Mar. 1	547	135 } 136 }	38	1006
Gas-motor. Automatic	T. Backeljau	364,205	June 7	11	3, 4	39	1091
Gas-motor engine	H. P. Holt and F. W. Crossley	370,258	Sept. 20	1357	363 } 364 }	40	1305
Gas-motor engine	N. A. Otto	365,701	June 28	2199	574	39	1528
Gas-motor engines. Pendulum-governor for	F. W. Crossly, H. P. Holt, and F. H. Anderson	363,508	May 24	2039	530	39	882
Gas. Obtaining hydrogen from water	H. H. Edgerton	366,081	July 5	451	122	40	85
Gas or fluids. Connection of pipes for conducting	J. Story	364,449	June 7	343	94	39	1154
Gas or gasoline engine	B. F. Kadel	374,968	Dec. 20	1170	305	41	1291
Gas-pipes. Apparatus for detecting leaks in	W. A. Stern	358,949	Mar. 8	788	199	38	1054
Gas piston meter	A. C. Christensen	366,762	July 19	1396	373 } 374 }	40	281
Gas-plant	S. T. Wellman and G. W. Goetz	371,810	Oct. 18	1529	394 } 395 }	41	319
Gas-pressure regulator	P. Keller	371,946	Oct. 25	1735	449	41	368
Gas pressure-regulator and cut-off	G. S. Faulkner and G. K. Pope	369,445	Sept. 6	187	53	40	1068
Gas pressure-regulator and cut-off	H. J. Hyams	359,787	Mar. 22	2024	512	38	1305
Gas pressure-regulator and cut-off	A. Kunkel	362,894	May 10	1174	314	39	698
Gas pressure-regulator and cut-off	O. J. McGann	374,485	Dec. 6	450	117	41	1132
Gas pressure-regulator and cut-off	E. C. Merrill	371,088	Oct. 4	506	127	41	100
Gas pressure-regulator and cut-off	J. R. Smith	370,715	Sept. 27	2051	544 } 545 }	40	1441
Gas pressure-regulator and cut-off	J. T. Sollenberger and H. G. Woody	359,822	Mar. 22	2071	525	38	1315
Gas-pressure regulator. Automatic	J. W. Haggerty	367,618	Aug. 2	378	106 } 107 }	40	524
Gas-pressure regulator. High and low	W. M. Jackson	360,774	Apr. 5	535	138	39	100
Gas-pressure regulators. Automatic cut-off for	G. Young	366,708	July 19	1321	355	40	267
Gas. Process of and apparatus for generating illuminating-	J. D. Averell	360,945	Apr. 12	788	204	39	152
Gas. Process of and apparatus for manufacturing	J. J. Johnston	356,587	Jan. 25	1843	484	38	374
Gas. Process of and apparatus for manufacturing	T. G. Springer	361,190	Apr. 12	1159	294	39	220
Gas. Process of and apparatus for manufacturing	T. G. Springer	361,191	Apr. 12	1161	294	39	221
Gas. Process of and apparatus for manufacturing	T. G. Springer	362,233	May 3	239	69	39	519
Gas. Process of and apparatus for manufacturing	A. M. Sutherland	373,158	Nov. 15	1328	352	41	733
Gas. Process of and apparatus for manufacturing heating-	J. J. Johnston	356,477	Jan. 25	1693	442 } 443 }	38	346
Gas. Process of and apparatus for manufacturing illuminating-	J. J. Johnston	356,476	Jan. 25	1689	441 } 442 }	38	345
Gas. Process of and apparatus for the manufacture of	S. R. Dickson	370,768	Oct. 4	22	6	41	7
Gas-producer	J. A. Herrick and C. R. F. Topham	360,222	Mar. 29	2730	691 } 692 }	38	1441
Gas-producer	W. L. McNair	370,273	Sept. 20	1380	370	40	1309
Gas-regulator	J. H. Curry	364,992	June 14	1141	299	39	1308
Gas-regulator	B. F. Fertick	366,622	July 12	1198	320	40	236
Gas-regulator	B. F. Fertick	368,331	Aug. 16	1441	382	40	742
Gas-regulator	T. R. Firth	356,684	Jan. 25	1979	520	38	400
Gas-regulator	A. Ford	367,801	Aug. 9	684	185	40	588
Gas-regulator	J. H. Helm	370,619	Sept. 27	1906	506	40	1414
Gas-regulator	H. J. Hyams	371,324	Oct. 11	835	214	41	171
Gas-regulator	J. A. Lyon	360,389	Mar. 29	2974	754	38	1486
Gas-regulator	W. S. Patterson	370,886	Oct. 4	211	54	41	41
Gas-regulator	C. Pattrell	369,467	Sept. 6	215	60	40	1074
Gas-regulator	J. N. Pew	355,788	Jan. 11	692	180	38	143
Gas-regulator	M. Zucker	355,673	Jan. 4	512	135	38	101
Gas regulator and cut-off	C. A. Dally and H. K. Richardson	374,779	Dec. 13	868	228	41	1226
Gas regulator and cut-off	T. J. Kieley	361,765	Apr. 26	1966	513	39	390
Gas regulator and cut-off	T. J. Kieley	362,973	May 17	1293	343	39	727
Gas-regulator for boilers	T. J. Kieley	359,079	Mar. 8	958	245	38	1086
Gas-retort furnace	G. A. McIlhenny	375,085	Dec. 20	1334	348 } 349 }	41	1321

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Gas-scrubber.....	W. Simpkin.....	372,178	Oct. 25	2085	534	41	431
Gas. Stop-off valve for.....	H. Stewart.....	363,696	May 24	2315	601	39	934
Gas-stoppage alarm.....	F. J. Mackert and W. J. Hague.....	362,222	May 3	229	66	39	517
Gas-supply pipes. Cut-off for.....	A. Reese.....	368,168	Aug. 9	1197	320	40	686
Gas-supply. Pressure-gage attachment for automati- cally controlling	W. B. Mann.....	373,078	Nov. 15	1204	321	41	711
Gas-supply system.....	G. Westinghouse, Jr.....	370,510	Sept. 27	1738	462	40	1383
Gas-tanks. Blow-pipe connection for.....	J. R. Knapp.....	370,067	Sept. 20	1090	{ 288 289 }	40	1255
Gas-trap cover.....	N. Schwab.....	358,576	Mar. 1	245	58	38	949
Gas-trap cover.....	N. Schwab.....	362,542	May 10	665	187	39	606
Gas-trap cover for wash-basins.....	N. Schwab.....	355,722	Jan. 11	592	154	38	126
Gas. Treating natural.....	T. G. Springer.....	370,358	Sept. 20	1502	.....	40	1333
Gases. Apparatus for automatically testing mine-.....	T. Shaw.....	359,102	Mar. 8	992	{ 254 255 }	38	1093
Gases. Method of and apparatus for mingling.....	A. C. Lewis.....	372,687	Nov. 8	598	163	41	593
Gases. Process of and apparatus for charging liquids with	G. Schenck.....	363,173	May 17	1569	413	39	783
Gaseous fuel. Apparatus for making and burning ..	J. Locke and S. O. Richardson, Jr.....	371,956	Oct. 25	1748	453	41	370
Gasoline-burner. Generating.....	J. B. Wallace.....	369,826	Sept. 13	706	190	40	1177
Gate: See Adjustable gate. Pendulum-gate. Automatic gate. Railway-gate. Backwater and ani- Railway-crossing gate. mal gate. Road or farm gate. Bridge-gate. Sewer-gate. Counter-gate. Sliding gate. Elevator-gate. Sliding or rolling gate. End-gate. Swinging gate. Farm-gate. Swinging and folding Flood-gate. gate. Folding gate. Toll-gate. Head-gate. Wagon gate. Jump-gate. Wagon end-gate. Nursery-gate. Wire gate.							
Gate.....	J. G. Barber.....	355,293	Jan. 4	3	1	38	3
Gate.....	P. S. Basnett.....	362,703	May 10	906	247	39	649
Gate.....	J. Boyd and W. F. Goldenburg.....	365,573	June 28	2014	{ 525 526 }	39	1495
Gate.....	J. Chaffin.....	358,015	Feb. 22	1843	487	38	788
Gate.....	E. R. and S. C. Chase.....	371,304	Oct. 11	806	{ 205 206 }	41	166
Gate.....	A. Colton.....	366,570	July 12	1119	300	40	223
Gate.....	E. L. Cooper.....	367,367	Aug. 2	19	5	40	455
Gate.....	W. H. Cox. (Reissue).....	10,795	Jan. 4	516	136	38	102
Gate.....	J. S. Davis.....	361,053	Apr. 12	949	240	39	180
Gate.....	B. B. Eddy.....	361,272	Apr. 19	1275	327	39	254
Gate.....	J. Elcock.....	348,653	Mar. 1	348	83	38	968
Gate.....	W. P. Elliott.....	368,522	Aug. 16	1714	457	40	794
Gate.....	P. W. Estes.....	368,661	Aug. 23	1902	506	40	839
Gate.....	F. M. Farrell.....	367,710	Aug. 2	547	150	40	554
Gate.....	M. W. Foster.....	370,863	Oct. 4	166	44	41	33
Gate.....	T. J. Gross.....	362,273	May 3	288	80	39	529
Gate.....	J. W. Harland.....	368,207	Aug. 16	1258	336	40	706
Gate.....	J. S. Heaton.....	366,832	July 19	1486	397	40	296
Gate.....	G. W. Henshaw.....	368,287	Aug. 16	1390	367	40	731
Gate.....	E. E. Hess.....	362,962	May 17	1282	340	39	725
Gate.....	M. Hindmarch.....	371,318	Oct. 11	828	212	41	170
Gate.....	J. B. Holton.....	357,529	Feb. 8	1134	297	38	642
Gate.....	J. B. Holton.....	373,978	Nov. 29	2547	{ 684 685 }	41	984
Gate.....	G. H. Ingersoll.....	374,742	Dec. 13	816	214	41	1215
Gate.....	S. F. Kniss.....	369,644	Sept. 6	462	129	40	1123
Gate.....	S. W. Lee.....	358,462	Mar. 1	56	14	38	914
Gate.....	C. Marsh.....	370,799	Oct. 4	67	17	41	15
Gate.....	J. W. McAlister.....	369,953	Sept. 13	909	242	40	1214
Gate.....	G. W. McLain.....	356,692	Jan. 25	1990	523	38	402
Gate.....	J. H. Milligan.....	369,021	Aug. 30	2420	642	40	947
Gate.....	M. B. Mills.....	359,398	Mar. 15	1405	360	38	1176
Gate.....	M. B. Mills.....	370,643	Sept. 27	1940	514	40	1421
Gate.....	C. J. Moore.....	371,271	Oct. 11	762	{ 195 196 }	41	158
Gate.....	H. V. Philpott.....	363,964	May 31	2707	{ 701 702 }	39	1013
Gate.....	W. J. Pyle.....	365,860	July 5	146	38	40	30
Gate.....	J. Roberts, Sr.....	359,693	Mar. 22	1873	476	38	1280
Gate.....	W. Ruble.....	372,432	Nov. 1	220	61	41	511
Gate.....	E. B. Russell.....	356,602	Jan. 25	1864	490	38	379
Gate.....	G. Shine.....	365,870	July 5	158	41	40	32
Gate.....	H. F. Showalter.....	357,046	Feb. 1	425	113	38	500
Gate.....	J. Sisung, Jr.....	369,968	Sept. 13	931	{ 247 248 }	40	1219
Gate.....	K. Skeen.....	361,331	Apr. 19	1351	348	39	267
Gate.....	A. J. Slonecker.....	370,900	Oct. 4	235	59	41	46
Gate.....	P. Steele.....	359,746	Mar. 22	1949	494	38	1293
Gate.....	H. Terry.....	372,438	Nov. 1	227	64	41	513
Gate.....	T. B. Thorn.....	358,760	Mar. 1	497	{ 121 122 }	38	996
Gate.....	E. Townsend.....	364,193	May 31	3026	786	39	1075
Gate.....	J. H. Uhle.....	363,099	May 17	1464	388	39	761
Gate.....	J. J. Van Brimer.....	364,321	June 7	155	43	39	1118
Gate.....	J. P. Von Stein and H. A. White.....	364,195	May 31	3029	{ 787 788 }	39	1075
Gate.....	J. C. Wiley.....	367,258	July 26	2077	561	40	417

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Gate	H. W. Wilson	365,892	July 5	188	48	40	37
Gate-closer	W. B. Nelson	363,253	May 17	1672	438	39	802
Gate-latch	T. P. Skellenger	366,264	July 12	708	192	40	142
Gate-latching device	E. W. Snow and J. E. Higgins	357,507	Feb. 8	1095	289	38	635
Gate-lock	M. B. Mills	357,779	Feb. 15	1531	399	38	723
Gates. Automatic lock for	A. Farrar and W. P. Elliott	355,518	Jan. 4	288	77	38	58
Gates. Device for closing	J. W. Rigg	366,878	July 19	1550	415	40	310
Gates. Stop for double	M. Postlethwaite	367,926	Aug. 9	859	{ 233 234 }	{ 40 40 }	{ 623 623 }
Gear. Adjustable	C. E. Alden	369,221	Aug. 30	2687	713	40	1000
Gear. Automatic reversing	S. S. Barrie	363,501	May 24	2030	529	39	880
Gear-cutter	W. C. Jones	367,047	July 26	1763	476	40	358
Gear. Differential hoisting	C. G. Toense	366,278	July 12	724	197	40	144
Gear for machinery. Reversing	C. B. Cottrell	368,518	Aug. 16	1710	456	40	793
Gear. Frictional driving	H. Exley	364,997	June 14	1145	300	39	1309
Gear mechanism	W. Hanson	367,909	Aug. 9	836	225	40	619
Gear. Variable expansion	J. Hepworth	363,825	May 31	2497	648	39	974
Gear. Variable expansion	J. Hepworth	367,713	Aug. 2	552	151	40	555
Gearing	H. Essex	374,146	Nov. 29	2789	749	41	1031
Gearing	C. D. Hardcastle	365,993	July 5	333	88	40	63
Gearing	W. C. Jones and W. S. Rogers	361,222	Apr. 12	1212	308	39	230
Gearing	J. Ljung	367,532	Aug. 2	257	73	40	500
Gearing. Adjustable	L. P. Hoyt	358,930	Mar. 8	766	191	38	1050
Gearing. Changeable-speed	G. W. Kirkpatrick and A. J. Martin	357,834	Feb. 15	1598	414	38	737
Gearing. Changeable-speed	A. J. Martin	364,530	June 7	471	127	39	1176
Gearing for changing speed	I. M. Sweet	363,776	May 24	2424	629	39	955
Gearing. Frictional	D. Wilde	369,760	Sept. 13	609	164	40	1158
Gearing. Universal joint	J. J. Greenough	357,594	Feb. 15	1246	327	38	673
Gem-settings. Construction of	O. T. Smith	363,556	May 24	2109	547	39	895
Generator:							
See Calelectric generator.	Steam-generator.						
Electric generator.	Steam or hot-water generator.						
Gas-generator.	Thermo-electric generator.						
Heat-generator.							
Hydrocarbon-generator.							
Geometric figures. Device for laying off	W. B. Griffiths	364,508	June 7	425	115	39	1168
Gib and key	C. A. Marshall	362,455	May 3	544	151	39	579
Gib and key	T. Young	373,957	Nov. 29	2517	677	41	977
Gig. Double-acting rotary	J. Shearer and H. W. Karch	367,070	July 26	1801	486	40	365
Gig-tree and attachments	C. O. Gregory	369,707	Sept. 13	546	150	40	1148
Gin-brake	S. L. Carpenter	362,491	May 10	594	168	39	593
Girder	R. A. Stoffert and T. Dykes	361,097	Apr. 12	1012	255	39	194
Girder or arch	C. H. Rodemer	374,271	Dec. 6	137	36	41	1073
Glass:							
See Magnifying-glass.							
Glass and other plates. Joining-bar for uniting	M. Macleod	370,075	Sept. 20	1101	292	40	1257
Glass. Apparatus for beveling small pieces of	E. H. Pearce and J. Hulls	369,074	Aug. 30	2507	665	40	964
Glass. Apparatus for cutting bevels, &c., on	L. De Coster	373,768	Nov. 22	2247	602	41	918
Glass. Apparatus for rolling	A. D. Brogan and A. M. Malloch	370,177	Sept. 20	1257	334	40	1286
Glass articles. Process of cutting very thin parts upon	E. Weis	364,324	June 7	157	.....	39	1118
Glass. Batch for making	J. T. Adams	360,840	Apr. 12	630	.....	39	125
Glass bending and annealing furnace	C. H. Smith	373,695	Nov. 22	2146	{ 574 575 }	{ 41 41 }	{ 900 900 }
Glass. Beveled	C. P. Oudin	358,784	Mar. 1	533	130	38	1003
Glass-beveling machine	T. F. Gilroy	359,439	Mar. 15	1463	{ 374 375 }	{ 38 38 }	{ 1188 1188 }
Glass-beveling machine	T. F. Gilroy	370,187	Sept. 20	1270	{ 337 338 }	{ 40 40 }	{ 1288 1288 }
Glass-blower. Mechanical	W. G. Bailey	360,552	Apr. 5	236	59	39	46
Glass by means of compressed air. Apparatus for blowing	R. E. Donovan, F. Hazlett, and J. Johnston	373,132	Nov. 15	1281	341	41	726
Glass cover for pictures, &c.	J. A. Egginton	370,133	Sept. 20	1191	315	40	1273
Glass-cutter's combined frame and square	W. Boisen	362,354	May 3	389	108	39	550
Glass-cutting apparatus	F. Buck	368,928	Aug. 30	2297	610	40	924
Glass. Decorating	L. Winterhoff	357,354	Feb. 8	878	.....	38	593
Glass dish or plate	E. Porrera	357,689	Feb. 15	1385	364	38	697
Glass flower-stands. Manufacture of	T. B. Atterbury	362,414	May 3	484	137	39	569
Glass for manufacture of mirrors. Silvering	C. Laval	368,839	Aug. 23	2161	573	40	888
Glass. Forming letters on	W. H. Maxwell	359,682	Mar. 22	1853	471	38	1276
Glass globes. Manufacturing	R. G. A. Witt	373,117	Nov. 15	1261	.....	41	722
Glass-grinding machinery	H. Besson and E. N. Kent	375,332	Dec. 27	1668	438	41	1395
Glass lamps. Manufacture of	P. Arbogast	359,489	Mar. 15	1539	394	38	1202
Glass. Leer for annealing	A. H. Heisey and J. E. Miller	365,813	July 5	74	22	40	16
Glass. Machine for making perforated	L. and A. Appert	362,698	May 10	899	{ 244 245 }	{ 39 39 }	{ 648 648 }
Glass, &c. Machinery for polishing	P. Bernard	361,482	Apr. 19	1556	{ 403 404 }	{ 39 39 }	{ 306 306 }
Glass. Machinery for the manufacture of sheets of rippled	W. E. Chance	359,128	Mar. 8	1022	{ 264 265 }	{ 38 38 }	{ 1099 1099 }
Glass. Manufacture of rolled sheet	E. Walsh, Jr	367,565	Aug. 2	303	87.88	40	509
Glass. Manufacturing checkered	A. D. Brogan and A. M. Malloch	370,176	Sept. 20	1257	334	40	1286
Glass-melting furnace and regenerator	F. Heintz	362,961	May 17	1280	340	39	724
Glass-mold	M. L. Blackburn	359,553	Mar. 15	1646	421	38	1221
Glass-mold	H. Brooke	364,211	June 7	20	5.6	39	1092
Glass-mold	R. G. A. Witt	360,076	Mar. 29	2501	635	38	1400
Glass, &c. Mold for molding articles of	J. G. Sowerby	357,867	Feb. 15	1643	427	38	745
Glass panes. Machine for polishing	J. Schuster	359,744	Mar. 22	1947	494	38	1292
Glass plates. Process of producing designs on	L. Lendry	365,527	June 28	1945	506	39	1482
Glass polisher. Plate	J. Haslem. (Reissue)	10,872	Oct. 11	1126	293	41	220
Glass-pots. Machine for making	C. H. Roach	367,729	Aug. 2	576	{ 156 157 }	{ 40 40 }	{ 559 559 }

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Glass preserving-jar	M. Anthony	375,246	Dec. 20	1552	407	41	1364
Glass pressing and ornamenting apparatus	H. Northwood	369,296	Aug. 30	2791	744	40	1021
Glass reflector	T. B. Atterbury	362,415	May 3	485	137	39	569
Glass. Ruler for cutting	J. Dailey and C. H. Noell	368,995	Aug. 30	2389	635	40	941
Glass tile. Manufacture of	W. Buttler	372,253	Oct. 25	2201	564	41	454
Glass to produce designs thereon. Apparatus for rolling	A. D. Brogan and A. M. Malloch	370,178	Sept. 20	1258	334	40	1287
Glass-tube cutter	L. P. Lindgren	365,190	June 21	1433	378	39	1371
Glass tubes. Instrument for cutting off	E. B. Toedt and E. P. Burnham	363,563	May 24	2119	550	39	897
Glassware. Apparatus used in fire-polishing	J. G. Sowerby	357,68	Feb. 15	1644	428	38	745
Glassware. Fancy	J. Webb	363,190	May 17	1595	419	39	787
Glassware. Machine for crimping	J. Blumenberg	358,724	Mar. 1	451	110	38	987
Glassware. Machine for finishing articles of	J. E. Blackburn and W. I. Mann	363,580	May 24	2143	555 556	39	902
Glassware. Manufacture of	T. B. Atterbury	362,413	May 3	483	136	39	568
Glassware. Manufacture of	D. C. Ripley	364,298	June 7	129	37	39	1113
Glassware. Manufacture of hollow	L. V. Hue	364,929	June 14	1045	273	39	1290
Glassware. Manufacturing ornamental	T. B. Atterbury	366,364	July 12	837	225	40	165
Glassware. Manufacturing ornamental	L. V. Hue	355,649	Jan. 4	481	128	38	94
Glassware. Ornamenting	J. Locke	356,409	Jan. 18	1591	418	38	319
Glazier's diamond-tool	A. T. Duncan	365,057	June 21	1242	327	39	1337
Glazier's point	B. B. Chandler	360,656	Apr. 5	377	95	39	71
Glaziers' points. Implement for inserting	B. B. Chandler	363,363	May 24	1820	478	39	839
Globe, chimney, &c	G. B. Barnes	372,509	Nov. 1	327	90	41	533
Globe. Folding school-	J. H. French	374,789	Dec. 13	885	232	41	1228
Globe for educational purposes. Collapsible	C. B. Hite	357,994	Feb. 15	1815	476 477	38	777
Globe or shade ring	D. N. Gleason	362,210	May 3	209	62	39	513
Glove	J. Blomstrom	360,135	Mar. 29	2005	660	38	1418
Glove	J. Kayser	370,397	Sept. 27	1566	419	40	1353
Glove	D. S. Morrison	373,470	Nov. 22	1805	480	41	834
Glove. Ball-player's	E. Loucks	368,724	Aug. 23	2008	531	40	858
Glove-fastener	D. A. Carpenter	370,753	Sept. 27	2105	558	40	1451
Glove-fastener	D. A. Carpenter	373,797	Nov. 22	2289	613	41	926
Glove-fastener	S. Florsheim	356,310	Jan. 18	1450	380	38	293
Glove-fastener	G. Geary	369,848	Sept. 13	742	198	40	1184
Glove-fastener	E. J. Kraetzer	359,614	Mar. 22	1766	448	38	1259
Glove-fastener	E. J. Kraetzer	359,615	Mar. 22	1767	449	38	1259
Glove-fastener	G. W. Mandrill	374,609	Dec. 13	636	166	41	1179
Glove-fastener	S. Porter	360,110	Mar. 29	2565	651	38	1412
Glove-fastener	S. Porter	360,111	Mar. 29	2566	652	38	1412
Glove-fastener	S. W. Shorey	363,347	May 17	1799	472	39	826
Glove-fastener	W. J. Thompson	369,893	Sept. 13	815	216	40	1197
Glove-fastening	E. Pringle	360,912	Apr. 12	734	193	39	143
Glove-fastening	C. W. Stuart	362,553	May 10	679	190	39	608
Glove, mitten, &c	O. T. Jennings	363,829	May 31	2504	650	39	975
Glove or mitten	R. D. Burr	373,048	Nov. 15	1162	311	41	703
Glove or mitten	S. Helfaer	374,676	Dec. 13	724	190	41	1198
Glove or shoe fastener	M. E. Fitzpatrick and J. Jardine	371,749	Oct. 18	1438	372	41	301
Glove-protector	K. V. Waterhouse	356,385	Jan. 18	1558	410	38	313
Glove-stretcher	F. M. Case	365,432	June 28	1797	468	39	1451
Gloves. Fastening device or button for	J. C. Rhodes	371,975	Oct. 25	1776	460	41	376
Gloves or shoes. Fastening for	A. Nolte	357,287	Feb. 8	791	206	38	577
Gloves. Spring-clasp for	S. Bernhardt	363,578	May 24	2141	555	39	901
Glue and chlorine from salted fish-skins. Making	J. R. Pringle	362,903	May 10	1191	39	702	
Glue. Apparatus for evaporating and bleaching	A. J. Ward	363,026	May 17	1369	362	39	742
Glue, &c. Case for liquid	R. Brooks	363,983	May 31	2735	708	39	1018
Glue-cutting machine	D. Jarves. (Reissue)	10,875	Oct. 18	1684	435 436	41	349
Glue. Machine for cutting	D. Jarves	359,391	Mar. 15	1306	357 358	38	1174
Glycerine from fats. Separation of	R. Giebertmann	359,148	Mar. 8	1046	38	1104	
Glycerine from soap-lyes. Recovering	A. Domeier and O. C. Hagemann	371,127	Oct. 4	562	41	111	
Gold and silver. Refining	D. C. Johnson and J. P. Ryan	370,338	Sept. 20	1470	40	1327	
Gold. Concentrating	J. W. Parmelee	359,627	Mar. 22	1779	453	38	1262
Gold-leaf. Machine for laying	J. C. F. Kunkle	361,225	Apr. 12	1216	310	39	231
Gold-leaf. Production of sheets of	C. A. Wright	369,762	Sept. 13	613	165	40	1159
Gold-mining device	A. Mendenhall	360,713	Apr. 5	453	115	39	84
Gold-washing machine	H. G. Blodget	363,198	May 17	1603	420	39	789
Goods. Apparatus for delivering prepaid	A. Brunet	372,010	Oct. 25	1824	472	41	384
Goods from shelves. Device for lifting	L. M. McLaren	373,939	Nov. 29	2487	667 668	41	972
Governor	C. W. Baldwin	368,446	Aug. 16	1611	430 431	40	775
Governor	J. E. Hugon	356,644	Jan. 25	1932	506	38	391
Governor	A. Randolph	360,914	Apr. 12	737	193 194	39	143
Governor. Air-current	S. P. Smith	365,945	July 5	273	72	40	52
Governor. Electric	W. H. Reynolds	374,374	Dec. 6	291	77	41	1101
Governor. Engine	G. E. Dow	365,508	June 28	1911	497 498	39	1474
Governor. Engine	D. O. Ladd	363,651	May 24	2247	581 582	39	921
Governor. Engine	L. P. Langlois	361,067	Apr. 12	967	245	39	184
Governor. Engine	A. D. Quint	358,297	Feb. 22	2247	593	38	863
Governor. Engine	E. Verstraete	359,299	Mar. 15	1253	325	38	1149
Governor for controlling the supply of fluids	A. and J. Darling	357,763	Feb. 15	1508	393	38	719
Governor. Steam	D. A. Woodbury	360,336	Mar. 29	2888	735 736	38	1472
Governor. Steam and gas	T. Shaw	373,616	Nov. 22	2034	541	41	876
Governor. Steam-engine	E. J. Armstrong	368,044	Aug. 9	1025	276	40	655
Governor. Steam-engine	E. J. Armstrong	370,303	Sept. 20	1419	382	40	1317
Governor. Steam-engine	E. L. Arnold	368,370	Aug. 16	1492	398	40	752
Governor. Steam-engine	C. W. Barnaby	367,330	July 26	2178	586	40	436

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Governor. Steam-engine	R. M. Beck	359,006	Mar. 8	870	{ 220	{ 38	1069
Governor. Steam-engine	D. H. Dugar	357,585	Feb. 15	1231	{ 221	{ 38	670
Governor. Steam-engine	H. T. Giles	363,888	May 31	2579	{ 324	{ 39	990
Governor. Steam-engine	L. A. Haines	369,241	Aug. 30	2710	{ 670	{ 40	1005
Governor. Steam-engine	A. D. Quint	358,296	Feb. 22	2246	{ 671	{ 38	863
Governor. Steam-engine	F. M. Rites	355,717	Jan. 11	582	{ 720	{ 38	124
Governor. Steam-engine	J. B. Sutherland	367,461	Aug. 2	140	{ 152	{ 40	478
Governor. Tread-power	C. C. Smalley	357,239	Feb. 8	729	{ 40	{ 38	565
Governors. Safety-stop for	B. V. Nordberg	369,611	Sept. 6	415	{ 189	{ 40	1114
Grader and ditcher	C. Cook	357,522	Feb. 8	1126	{ 116	{ 38	640
Grader and ditching-machine. Slope-	J. C. Sage	370,089	Sept. 20	1120	{ 295	{ 40	1260
Grader and leveler. Road	J. Skinner	364,445	June 7	338	{ 297	{ 39	1153
Grader and purifier	H. C. McKeen	362,766	May 10	1008	{ 93	{ 39	667
Grader. Road-	J. D. Adams and F. M. Pennock	370,587	Sept. 27	1861	{ 273	{ 40	1405
Grader. Road-	H. G. Moats	363,342	May 17	1793	{ 274	{ 39	825
Grader. Road-	G. and O. E. Moats	370,806	Oct. 4	75	{ 494	{ 41	17
Grader. Road-	B. Poulson and E. L. Lathrop	370,655	Sept. 27	1955	{ 470	{ 40	1424
Grader wheels. Speed attachment for road-	W. L. Heller	356,584	Jan. 25	1841	{ 517	{ 38	374
Grading ditches. Leveling-instrument for	E. Reichenbach	360,247	Mar. 29	2769	{ 518	{ 38	1449
Grading-machine	W. S. Parker, D. H. Blood, and O. F. Tower	356,782	Feb. 1	52	{ 483	{ 38	433
Grading machine. Road-	J. Moore	374,691	Dec. 13	742	{ 703	{ 41	1201
Grading machine. Road-	J. Parmele	368,779	Aug. 23	2078	{ 15, 16	{ 40	872
Graduating-machine	G. F. Ballou	359,378	Mar. 15	1374	{ 195	{ 38	1171
Grain and fertilizer drill tube	T. R. Crane	364,577	June 7	528	{ 353	{ 39	1187
Grain and seed. Machine for gathering	L. W., Jr., and R. E. L. Leavell	363,073	May 17	1428	{ 354	{ 39	754
Grain, &c. Apparatus for torrefying	J. Fordred	363,057	May 17	1409	{ 142	{ 39	750
Grain-binder	W. R. Baker	357,140	Feb. 1	591	{ 378	{ 38	529
Grain-binder	W. R. Baker and H. E. Pridmore	370,304	Sept. 20	1420	{ 373	{ 40	1318
Grain-binder	C. Colahan	358,918	Mar. 8	751	{ 382	{ 38	1047
Grain-binder	C. Colahan	358,919	Mar. 8	752	{ 186	{ 38	1047
Grain-binder	C. Colahan	358,920	Mar. 8	753	{ 187	{ 38	1048
Grain-binder	C. Colahan	361,346	Apr. 19	1373	{ 187	{ 39	271
Grain-binder	C. Colahan	369,693	Sept. 13	526	{ 188	{ 40	1144
Grain-binder	C. Colahan and F. P. Rosback	358,921	Mar. 8	754	{ 146	{ 38	1048
Grain-binder	H. F. Crandall	362,427	May 3	497	{ 188	{ 39	571
Grain-binder	H. F. Crandall	372,520	Nov. 1	341	{ 140	{ 41	535
Grain-binder	R. Emerson	369,172	Aug. 30	2627	{ 94	{ 40	989
Grain-binder	T. M. Flenniken	367,285	July 26	2118	{ 697	{ 40	423
Grain-binder	A. Goodyear	374,595	Dec. 13	613	{ 698	{ 41	1174
Grain-binder	J. H. McCutcheon	371,341	Oct. 11	858	{ 570	{ 41	175
Grain-binder	L. Miller and A. E. Ellinwood	359,271	Mar. 15	676	{ 571	{ 38	1142
Grain-binder	L. W. Noyes	366,240	July 12	1012	{ 160	{ 40	136
Grain-binder	L. W. Noyes	366,502	July 12	2013	{ 161	{ 40	201
Grain-binder	E. A. Peck	373,601	Nov. 22	110	{ 219	{ 41	872
Grain-binder	W. M. Piatt	367,441	Aug. 2	130	{ 220	{ 40	472
Grain-binder	W. M. Piatt	374,267	Dec. 6	1795	{ 221	{ 41	1072
Grain-binder	H. E. Pridmore	361,646	Apr. 19	373	{ 317	{ 39	352
Grain-binder	G. H. Spaulding	374,434	Dec. 6	2121	{ 465	{ 41	1117
Grain-binder	W. M. Steinle	375,659	Dec. 27	1108	{ 466	{ 41	1480
Grain-binder	J. F. Steward	364,972	June 14	717	{ 467	{ 39	1302
Grain-binder	J. F. Steward	366,272	July 12	1590	{ 550	{ 40	143
Grain-binder	W. N. Whiteley	368,436	Aug. 16	1214	{ 551	{ 40	771
Grain-binder conveyer	W. P. Essig	359,247	Mar. 15	1187	{ 288	{ 38	1137
Grain-binder cord-holder	J. F. Gordon	359,781	Mar. 22	2017	{ 289	{ 38	1304
Grain-binder tables. Shifting mechanism for	J. P. Bullock	372,515	Nov. 1	333	{ 194	{ 41	534
Grain-binders. Bundle-carrier for	W. R. Baker	361,976	Apr. 26	2284	{ 195	{ 39	447
Grain-binders. Bundle-carrier for	W. R. Baker	361,977	Apr. 26	2286	{ 424	{ 39	447
Grain-binders. Bundle-carrier for	W. R. Baker	361,978	Apr. 26	2289	{ 425	{ 39	448
Grain-binders. Butt-adjuster for	W. R. Baker	357,141	Feb. 1	593	{ 309	{ 38	530
Grain-binders. Butt-detainer for	W. N. Whiteley	359,118	Mar. 8	1011	{ 594	{ 38	1097
Grain-binders. Clearer for	W. N. Whiteley and W. Bayley	370,297	Sept. 20	1412	{ 595	{ 40	1316
Grain-binders. Cord-tyer for	W. Butterfield	373,220	Nov. 15	1432	{ 596	{ 41	752
Grain-binders. Cord-tying bill for	R. H. Corey	365,050	June 21	1228	{ 152	{ 39	1334
Grain-binders. Cord-tying mechanism for	W. Butterfield	365,044	June 21	1218	{ 153	{ 39	1332
Grain-binders. Deck-cleaner for	W. N. Whiteley	358,586	Mar. 1	260	{ 321	{ 38	951
Grain-binders. Head and butt board for	W. N. Whiteley	367,688	Aug. 2	497	{ 322	{ 40	545
Grain-binders. Knotter for	W. N. Whiteley, W. Bayley, and S. Dyer	363,268	May 17	1690	{ 60	{ 39	806
Grain-binders. Knotting device for	W. N. Whiteley	372,506	Nov. 1	324	{ 137	{ 41	532

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Grain-binders. Knotting device for	W. N. Whiteley, W. Bayley, and S. Dyer. (Reissue.)	10,797	Jan. 11	1137	301	38	228
Grain-binders. Knotting mechanism for	J. F. Appleby	362,811	May 10	1058	288	39	677
Grain-binders. Operating mechanism for cord-holders of	J. P. Bullock	366,372	July 12	850	228	40	168
Grain-binders. Sheaf-carrier for	W. Butterfield	362,930	May 17	1229	327	39	715
Grain-binders. Tension device for	W. H. Blanchard	355,678	Jan. 11	525	138	38	112
Grain-binders. Tension device for	O. Cooley	357,581	Feb. 15	1226	322	38	669
Grain-binders. Trip mechanism for	J. P. Bullock	374,341	Dec. 6	247	66	41	1093
Grain-binders. Twine holder and cutter for	C. F. Adams	362,696	May 10	896	244	39	648
Grain-binding machine	C. Young	358,798	Mar. 1	551	136 137 138	38	1006
Grain-binding machines. Grain-adjusting device for	H. J. Case	359,426	Mar. 15	1448	370	38	1184
Grain-boats. Apparatus for unloading	L. Messier	369,460	Sept. 6	206	58	40	1072
Grain-cleaner	J. M. Hendershot	361,413	Apr. 19	1466	379	39	288
Grain-cleaner	L. Prevost	360,361	Mar. 29	2932	745	38	1478
Grain-cleaner	W. E. Sergeant	358,077	Feb. 22	1937	511	38	805
Grain-cleaners. Blast-governor for	D. Best	371,411	Oct. 11	958	248	41	194
Grain cleaning and scouring machine	G. A. Gilbert and W. Richardson	355,520	Jan. 4	292	78	38	59
Grain cleaning and separating mill	M. Grollimund	373,066	Nov. 15	1186	317	41	708
Grain cleaning and washing apparatus	J. I. Booker	369,768	Sept. 13	622	167 168	40	1161
Grain-cleaning machine	A. Laidlaw	365,080	June 21	1274	336	39	1342
Grain-cleaning machine	R. McLain	355,546	Jan. 4	326	87	38	66
Grain-cleaning machine	W. E. Sergeant	358,302	Feb. 22	2255	595	38	864
Grain-conveyer. Pneumatic	W. E. Budd	366,919	July 19	1596	428	40	319
Grain-conveyer. Portable	A. F. Carlson	363,282	May 17	1710	447	39	809
Grain-cradle	P. B. Nalley	358,783	Mar. 1	531	130	38	1002
Grain-cradle	W. B. Smith	365,947	July 5	275	72	40	53
Grain-cradle attachment	T. C. Fisher	372,791	Nov. 8	763	205	41	621
Grain-drier	J. C. Bates	358,830	Mar. 8	608	151	38	1022
Grain-drier	L. Borland and T. J. Parsons	361,126	Apr. 12	1054	267	39	200
Grain-drier	R. A. Burnett	355,861	Jan. 11	794	209	38	161
Grain-drier	J. H. McDonald	368,298	Aug. 16	1402	370	40	734
Grain-drier	J. H. McDonald	369,607	Sept. 6	406	113 114	40	1112
Grain-drier	J. Wales	363,865	May 31	2534	663	39	985
Grain-drill	W. D. Arnett	374,514	Dec. 6	489	127	41	1140
Grain-drill	T. R. Crane	363,605	May 24	2178	564	39	908
Grain-drill	T. R. Crane	372,125	Oct. 25	2010	516	41	417
Grain-drill	T. R. Crane	372,127	Oct. 25	2012	516 517	41	417
Grain-drill	N. E. Lupton and W. H. Starry	362,848	May 10	1104	299	39	686
Grain-drill	A. J. Martin	362,757	May 10	995	270	39	664
Grain-drill	W. W. and F. M. Mullen	355,462	Jan. 4	217	58	38	44
Grain-drill	W. H. Newton	357,850	Feb. 15	1620	421	38	741
Grain-drill	J. W. Rhodes	355,716	Jan. 11	580	152	38	124
Grain-drill	J. Rodenberger	365,408	June 28	1761	457	39	1445
Grain-drill	D. W. Smith and J. C. Bittenbender	371,388	Oct. 11	927	239	41	188
Grain-drill	L. E. Waterman	365,109	June 21	1320	350	39	1349
Grain-drill and seeder	W. D. Arnett	369,383	Sept. 6	103	31	40	1053
Grain-drill hoes. Power-lifter for	A. M. Baker	361,040	Apr. 12	935	236	39	177
Grain-drill tube	T. R. Crane	363,286	May 17	1715	449	39	810
Grain-drill tube	T. R. Crane	372,126	Oct. 25	2011	516	41	417
Grain-drills. Clearing attachment for	W. H. Mitchell	360,322	Mar. 29	2871	731	38	1469
Grain-drills. Covering attachment for shoes of	T. R. Crane	363,602	May 24	2175	563	39	907
Grain-drills. Feed device for	T. R. Crane	363,604	May 24	2177	564	39	908
Grain-drills. Feed device for	T. R. Crane	374,454	Dec. 6	406	106	41	1123
Grain-drills. Fertilizer feeder attachment for	A. H. Worrest	355,671	Jan. 4	509	133	38	100
Grain-drills, seeders, &c. Spring-hoe for	R. B. Sheldon	357,862	Feb. 15	1637	425	38	744
Grain-drills. Seeding attachment for	W. R. Dudley	369,506	Sept. 6	261	73	40	1083
Grain-drying apparatus	P. Jepson	373,140	Nov. 15	1294	344	41	728
Grain elevating and discharging apparatus	T. Schofield	358,075	Feb. 22	1934	510	38	805
Grain-elevator	J. A. McLennon	371,343	Oct. 11	863	221 222	41	176
Grain-elevator. Harvester	E. B. Copley	369,396	Sept. 6	119	35	40	1055
Grain-elevators. Force-feed for	S. M. Grawmlick	366,476	July 12	971	264	40	193
Grain feeder and packer	H. M. Weaver	363,867	May 31	2556	664	39	986
Grain gatherer and packer for binders	W. H. Knapp	368,892	Aug. 23	2235	595	40	903
Grain in bags. Apparatus for handling	G. Francis	360,578	Apr. 5	271	67	39	52
Grain. Means for elevating	G. Romweber	368,242	Aug. 16	1323	348	40	717
Grain-meter	H. Albrecht	363,499	May 24	2027	528	39	880
Grain-meter	H. R. Albrecht	367,775	Aug. 9	644	173	40	581
Grain-meter	J. B. Dutton	367,096	July 26	1845	498	40	373
Grain-meter	J. B. Dutton	367,097	July 26	1846	498	40	373
Grain-meter	A. Springer and W. Kent	365,874	July 5	162	42	40	33
Grain-meter	A. Springer and W. Kent	365,875	July 5	164	43	40	33
Grain-meter	A. Springer and W. Kent	365,876	July 5	166	43	40	34
Grain-meter	A. Springer and W. Kent	365,877	July 5	167	43	40	34
Grain meter and register	F. H. Lacey	355,828	Jan. 11	742	194	38	152
Grain meter and register. Automatic	R. R. Howell	373,662	Nov. 22	2099	561	41	890
Grain-meter. Automatic	J. C. King	361,878	Apr. 26	2144	556	39	422
Grain-meters. Automatic cut-off for	G. Marsh	355,774	Jan. 11	665	173	38	139
Grain or cereals. Preparing	J. Fordred	363,056	May 17	1407	372	39	750
Grain or fertilizer distributor	B. F. Rix	361,781	Apr. 26	1997	519	39	395
Grain-polisher	J. Paul	373,534	Nov. 22	1921	509	41	855
Grain receptacle for self-binders. Loose	J. F. Steward	364,380	June 7	235	67	39	1133
Grain-register	F. Stanton	373,805	Nov. 22	2301	616	41	929
Grain-scourer	G. S. Cranson	356,273	Jan. 18	1391	368	38	282
Grain-scourer	D. Etnier, Jr	360,670	Apr. 5	393	100	39	74
Grain-scourer	C. M. Gilbert	363,381	May 24	1840	484 485	39	843
Grain-scourer	J. Yates	363,938	May 31	2659	690	39	1003
Grain-separator	W. C. Buchanan	372,452	Nov. 1	249	69	41	517

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Grain-separator.....	C. D. Edwards.....	375,142	Dec. 20	1420	370	41	1336
Grain-separator.....	E. W. Flagg.....	367,750	Aug. 2	600	163	40	564
Grain-separator.....	C. M. Gilbert.....	368,939	Aug. 30	2312	{ 614 615 }	{ 40 40 }	926
Grain-separator.....	J. Grider.....	375,486	Dec. 27	1872	489	41	1435
Grain-separator.....	J. F. Hatfield.....	373,737	Nov. 22	2200	588	41	911
Grain-separator.....	N. Hollinger.....	359,569	Mar. 15	1674	427	38	1227
Grain-separator.....	L. J. Ross.....	365,636	June 28	2101	547	39	1511
Grain-separator.....	A. Zastrow.....	358,825	Mar. 1	595	147	38	1014
Grain separator and cleaner.....	W. R. Dunlap.....	374,947	Dec. 20	1142	299	41	1285
Grain separator and grader.....	E. A. Mueller.....	359,514	Mar. 15	1583	{ 405 406 }	{ 38 38 }	1210
Grain separators. Counter-balance for.....	C. M. Gilbert.....	368,940	Aug. 30	2314	615	40	927
Grain-shocking machine.....	B. F. Butler.....	355,378	Jan. 4	112	30, 31	38	24
Grain-spout.....	J. S. Metcalf.....	358,052	Feb. 22	1900	502	38	798
Grain-stalks. Machine for cutting off the soiled butts of.....	L. Becker.....	362,244	May 3	253	72	39	522
Grain-tally.....	T. Bellaire and J. Bousha.....	361,392	Apr. 19	1440	372	39	283
Grain to flour. Reducing.....	J. R. Davis, Jr.....	372,016	Oct. 25	1834	475	41	386
Grain-winner.....	C. J. Ericson.....	357,525	Feb. 8	1129	295	38	641
Graining compound.....	R. J. Adams.....	369,220	Aug. 30	2686	.....	40	1000
Graining-machine.....	H. K. Hess.....	364,515	June 7	434	117	39	1170
Gramophone.....	E. Berliner.....	372,786	Nov. 8	754	204	41	620
Granulating-mill.....	C. A. Fredericks.....	368,710	Aug. 23	1981	526	40	854
Grape and apple crusher.....	A. David.....	358,597	Mar. 1	276	64, 65	38	954
Grape-stemmer.....	W. H. Worth.....	358,241	Feb. 22	2170	572	38	848
Graphophonic records. Paper cylinder for.....	C. S. Tainter.....	374,133	Nov. 29	2768	744	41	1027
Grapple.....	W. Potter.....	365,940	July 5	265	69	40	51
Grapple.....	F. M. Uhler.....	358,132	Feb. 22	2024	532	38	820
Grapple-adjuster.....	E. A. Reed.....	373,194	Nov. 15	1385	367	41	743
Grappling-tool.....	R. C. Chapman and D. L. Eustice.....	361,614	Apr. 19	1743	451	39	341
Grass-killer.....	J. P. Mathis.....	366,854	July 19	1521	407	40	304
Grate.....	D. E. Bangs.....	371,917	Oct. 25	1696	439	41	361
Grate.....	H. Born.....	364,209	June 7	18	5	39	1092
Grate.....	L. T. Burnham.....	371,667	Oct. 18	1313	340	41	275
Grate.....	F. H. De Guerre.....	374,176	Dec. 6	21	5	41	1050
Grate.....	F. H. DeGuerre and W. W. De Lano.....	356,824	Feb. 1	111	31	38	444
Grate.....	W. B. Dunning.....	370,458	Sept. 27	1658	442	40	1369
Grate.....	A. Greenaway.....	375,066	Dec. 20	1308	342	41	1315
Grate.....	R. and F. R. Hubbell.....	358,555	Mar. 1	219	50	38	944
Grate.....	W. E. Kelly.....	367,147	July 26	1914	517	40	385
Grate.....	T. F. Morrin.....	364,841	June 14	922	244	39	1268
Grate.....	A. S. Newby.....	363,344	May 17	1796	470	39	826
Grate.....	E. Oehrle and J. R. Perkins.....	364,035	May 31	2801	725	39	1032
Grate.....	F. C. Peslin.....	362,311	May 3	335	92, 93	39	539
Grate.....	J. Reynolds.....	366,687	July 19	1293	346	40	262
Grate.....	B. F. Warren.....	356,433	Jan. 18	1627	426	38	325
Grate.....	H. M. Weaver.....	371,112	Oct. 4	540	138	41	107
Grate.....	E. W. Williams.....	370,512	Sept. 27	1741	462	40	1384
Grate and fire-back for fire-places.....	J. W. Wolfe.....	363,308	May 17	1745	457	39	816
Grate-bar.....	J. Christie.....	361,397	Apr. 19	1445	373	39	284
Grate-bar.....	C. Hoffmann.....	356,537	Jan. 25	1770	460	38	360
Grate-bar.....	W. E. Kelly.....	371,329	Oct. 11	839	215	41	172
Grate-bar.....	W. E. Kelly.....	371,765	Oct. 18	1459	378	41	305
Grate-bar.....	W. E. Kelly.....	374,411	Dec. 6	340	89	41	1110
Grate-bar.....	E. W. Vanduzen.....	360,067	Mar. 29	2485	631	38	1398
Grate-bar. Compound.....	T. Evans.....	361,215	Apr. 12	1198	304	39	227
Grate-bar. Revolving.....	P. Rafferty.....	358,786	Mar. 1	535	131	38	1003
Grate. Combined gas and coal burning.....	C. H. Miller.....	362,648	May 10	832	227	39	635
Grate. Fire.....	J. H. Allyn and H. P. Evans.....	373,875	Nov. 29	2401	645	41	955
Grate. Fire.....	T. C. Vesey.....	356,084	Jan. 11	1131	298	38	226
Grate. Fire.....	H. S. Williams.....	361,036	Apr. 12	926	{ 234 235 }	{ 39 39 }	176
Grate. Fire-place.....	W. J. Copp.....	362,063	May 3	17	5	39	476
Grate. Fire-place.....	W. E. Fitch.....	362,265	May 3	275	77	39	527
Grate for fire-places. Fire.....	H. G. and W. R. Dawson.....	367,793	Aug. 9	674	182	40	586
Grate for furnaces, &c.....	S. Fiske.....	364,712	June 14	715	190	39	1231
Grate for stoves, ranges, furnaces, &c.....	H. H. Bostwick.....	371,246	Oct. 11	726	186	41	151
Grate. Heater.....	J. D. Vance.....	367,255	July 26	2073	560	40	416
Grate-shaker.....	J. G. Clark and E. W. Haynes.....	361,345	Apr. 19	1372	353	39	271
Grate. Shaking.....	S. D. Earl.....	362,499	May 10	608	172	39	595
Grates and fire-places. Extension-screen for.....	J. G. Smith.....	363,178	May 17	1575	415	39	784
Grates. Ash-screen for.....	J. D. Vance.....	365,954	July 5	285	75	40	54
Grates. Attachment for basket.....	J. Sheeran.....	355,565	Jan. 4	352	94	38	71
Grates. Fuel cut-off for.....	N. Ruger.....	373,685	Nov. 22	2132	{ 571 572 }	{ 41 41 }	897
Grates or stoves. Attachment for.....	A. E. Vogeley.....	364,690	June 14	674	180	39	1224
Grater. Coconut.....	O. Domalski.....	355,598	Jan. 4	394	107	38	79
Grater-cylinder.....	S. E. Smith.....	369,130	Aug. 30	2576	685	40	978
Grater. Fruit or vegetable.....	W. Marx.....	374,611	Dec. 13	638	167	41	1179
Grater. Vegetable.....	M. D. Platner.....	361,595	Apr. 19	1718	444	39	336
Grater. Vegetable and fruit.....	C. Clauss.....	366,459	July 12	948	259	40	189
Grease-cup.....	J. E. Dunnigan.....	360,379	Mar. 29	2959	751	38	1483
Grease-cup.....	C. C. Gerlach.....	358,739	Mar. 1	468	114	38	991
Grease-cup. Compression.....	D. H. McCarty.....	363,156	May 17	1542	407	39	776
Greenhouses. Sash-operator for.....	J. A. Evans and L. A. Teagle.....	371,132	Oct. 4	569	145	41	113
Griddle-greaser.....	M. L. W. Adams.....	372,648	Nov. 8	543	149	41	583
Gridiron.....	R. P. Chapman.....	363,590	May 24	2155	559	39	904
Grinder. Tool.....	N. C. Stiles.....	366,897	July 19	1573	421	40	314
Grinding and polishing material.....	C. M. Lindsey.....	373,239	Nov. 15	1460	.....	41	757
Grinding and polishing metals, &c. Machinery for.....	J. Hampton.....	375,625	Dec. 27	2072	539	41	1470
Grinding and polishing the external surfaces of hollow ware. Machine for.....	J. T. Duff.....	369,327	Sept. 6	25	7	40	1040
Grinding and polishing the interior of hollow ware. Machine for.....	J. T. Duff.....	369,326	Sept. 6	23	6, 7	40	1039
Grinding-machine.....	E. J. Armstrong.....	375,247	Dec. 20	1553	407	41	1364

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Grinding machine. Jar.....	E. H. Everett.....	368,200	Aug. 16	1251	334	40	704
Grinding machine. Tool.....	J. E. Reinecker.....	355,414	Jan. 4	161	42	38	32
Grinding-machines. Attachment for.....	G. H. Smith.....	359,943	Mar. 22	2266	570	38	1350
Grinding-mill.....	F. Beall.....	364,628	June 14	595	160	39	1208
Grinding-mill.....	N. P. Bowsher.....	370,310	Sept. 20	1429	{ 383 384 }	{ 40 40 }	1319
Grinding-mill.....	M. C. Cogswell.....	367,189	July 26	1965	531	40	395
Grinding-mill.....	H. H. Coles.....	375,533	Dec. 27	1932	506	41	1447
Grinding-mill.....	H. H. Coles.....	375,534	Dec. 27	1934	506	41	1447
Grinding-mill.....	C. G. Freeman.....	357,767	Feb. 15	1516	{ 394 395 }	{ 38 38 }	720
Grinding-mill.....	L. D. Harrison.....	357,925	Feb. 15	1713	447	38	758
Grinding-mill.....	W. Jenisch.....	367,043	July 26	1759	475	40	357
Grinding-mill.....	W. T. Pyne.....	365,022	June 14	1177	309	39	1314
Grinding-mill.....	B. Touya, Fils.....	364,145	May 31	2958	768	39	1061
Grinding-mill.....	S. P. Walling.....	372,726	Nov. 8	657	180	41	604
Grinding-mill.....	E. Weiss.....	374,101	Nov. 29	2725	731	41	1020
Grinding-mill disk.....	J. S. Ash.....	361,252	Apr. 19	1251	319	39	249
Grinding-mill feeder.....	E. L. Conklin.....	364,485	June 7	395	{ 107 108 }	{ 39 39 }	1162
Grinding-mill feeder.....	M. N. Elwell.....	360,284	Mar. 29	2829	719	38	1460
Grinding-mills. Fastening for runners of.....	H. H. Coles.....	375,535	Dec. 27	1935	506	41	1447
Grinding-mills. Hopper for.....	J. F. Winchell.....	355,740	Jan. 11	619	162	38	131
Grinding or polishing machine.....	W. R. Dickson. (Reissue).....	10,812	Mar. 1	600	148	38	1014
Grinding or polishing wheel.....	L. R. Nourse.....	358,472	Mar. 1	72	18	38	917
Grinding or pulverizing mill.....	A. Morlock.....	373,190	Nov. 15	1378	365	41	742
Grinding-roll.....	J. B. Allfree.....	362,196	May 3	187	56	39	510
Grinding-rolls. Roughening and corrugating the surfaces of.....	H. Stanley.....	357,872	Feb. 15	1647	.....	38	746
Grinding spherical balls. Machinery for.....	H. Richardson.....	365,407	June 28	1759	456	39	1445
Grinding the scores in tack-dies. Machine for.....	A. E. Convers.....	359,533	Mar. 15	1611	{ 412 413 }	{ 38 38 }	1215
Grindstone-frame.....	W. F. Barnes.....	367,331	July 26	2182	{ 586 587 }	{ 40 40 }	436
Grindstone-frame.....	S. Lewis.....	368,156	Aug. 9	1180	315	40	683
Grindstone-frame.....	S. Lewis.....	375,170	Dec. 20	1458	381	41	1345
Grindstone-frame.....	W. Thornburgh.....	373,255	Nov. 15	1473	390	41	759
Grindstones and frames therefor. Mechanism for hanging and centering.....	J. M. Childs and D. B. Smith. (Re-issue.).....	10,813	Mar. 8	1170	304	38	1126
Grindstones. Tool-holder for.....	J. R. Hamilton.....	359,151	Mar. 8	1049	273	38	1104
Grindstones. Treadle for.....	J. H. Simonson.....	371,856	Oct. 18	1603	414	41	334
Grip tester. Hand.....	J. M. Reiners.....	374,003	Nov. 29	2582	694	41	991
Gripping implement.....	A. E. Brown.....	366,813	July 19	1461	390	40	292
Grommet.....	J. Boyle.....	367,590	Aug. 2	341	97	40	517
Grommet.....	R. Brass.....	370,924	Oct. 4	280	69	41	56
Grooving machine. Wheel.....	S. F. Brown.....	368,374	Aug. 16	1496	399	40	753
Grub and stump extractor.....	J. C. Sharp and A. U. Calkins.....	365,545	June 28	1966	{ 513 514 }	{ 39 39 }	1486
Guard:							
See Animal-trap guard. Loom shuttle-guard.							
Bed-guard. Mower and reaper guard.							
Belt-lace guard. Mustache-guard.							
Bridge-guard. Railway cattle-guard.							
Buckle-guard. Railway-crossing guard.							
Cattle-guard. Rein-guard.							
Cigar ash-guard. Spectacle nose-guard.							
Dust-guard. Spool-guard.							
Faucet-guard. Trace and whiffletree guard.							
Fence-guard. Watch-guard.							
Foot-guard. Watch safety-guard.							
Hatchway-guard. Window-guard.							
Key-hole guard. Window-guard.							
Guard-finger.....	W. H. Sharood.....	358,488	Mar. 1	94	24	38	921
Guard-finger and finger-bar.....	A. McCormick.....	358,050	Feb. 22	1897	{ 501 502 }	{ 38 38 }	798
Guitar-bridge.....	G. B. Durkee.....	358,847	Mar. 8	638	158	38	1027
Gummed sheet or web.....	F. Godfrey.....	357,081	Feb. 1	479	128	38	511
Gumming and sticking machine.....	F. Godfrey.....	357,080	Feb. 1	476	127	38	510
Gun.....	A. D. Blanchard.....	369,313	Sept. 6	9	3	40	1036
Gun. Air.....	W. F. Markham.....	372,161	Oct. 25	2062	527	41	426
Gun. Air.....	H. M. Quackenbush.....	370,817	Oct. 4	86	23	41	19
Gun and alarm. Burglar.....	M. S. Hancock and J. Johnson.....	371,838	Oct. 18	1573	407	41	328
Gun and armored well for the same. Eclipsing.....	A. Evrard.....	359,966	Mar. 22	2312	{ 581 582 }	{ 38 38 }	1358
Gun and port therefor. Submarine.....	E. H. Marsh.....	367,153	July 26	1924	519	40	387
Gun-barrels. Device for cleaning.....	S. H. Heginbottom.....	363,137	May 17	1517	402	39	771
Gun-barrels, flues, &c. Device for cleaning.....	J. S. Simpson.....	358,304	Feb. 22	2258	595	38	865
Gun. Breech-loading.....	W. Gardner.....	371,836	Oct. 18	1569	{ 405 406 }	{ 41 41 }	327
Gun. Breech-loading.....	R. Jones and W. Taylor.....	370,740	Sept. 27	2088	554	40	1448
Gun. Breech-loading.....	C. Röstel.....	369,964	Sept. 13	926	246	40	1217
Gun. Breech-loading shot.....	A. Dickerman.....	369,437	Sept. 6	175	50	40	1065
Gun-carriage.....	H. Gruson.....	366,951	July 19	1642	440	40	327
Gun-carriage.....	H. Gruson.....	367,617	Aug. 2	376	106	40	523
Gun-carriages. Recoil-brake for.....	A. C. Koerner.....	373,667	Nov. 22	2105	563	41	891
Gun-carriages. Support for.....	L. N. Tonns.....	371,530	Oct. 11	1118	{ 291 292 }	{ 41 41 }	227
Gun-cleaner.....	J. Espy.....	366,470	July 12	964	262	40	192
Gun-cleaner.....	W. E. Forster.....	363,951	May 31	2678	695	39	1007
Gun. Concealed-hammer.....	H. O. Berg and A. Decortis.....	363,577	May 24	2139	{ 554 555 }	{ 39 39 }	901
Gun. Gopher.....	F. L. Emerson.....	355,602	Jan. 4	396	107	38	79
Gun-lock.....	E. Schlegelmilch.....	356,378	Jan. 18	1546	406	38	311
Gun. Machine.....	H. Allender.....	372,191	Oct. 25	2109	541	41	435

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Gun. Machine.....	H. S. Maxim.....	367,825	Aug. 9	715	192	40	594
Gun. Magazine.....	A. Burgess.....	366,564	July 12	1110	298	40	221
Gun. Magazine.....	A. Burgess.....	366,565	July 12	1113	298	40	221
Gun. Magazine.....	H. Carr.....	368,130	Aug. 9	1141	302	40	676
Gun. Magazine.....	L. P. Diss.....	356,277	Jan. 18	1401	370	38	283
Gun. Magazine.....	L. P. Diss.....	367,199	July 26	1979	535	40	399
Gun. Magazine.....	G. V. Fosbery.....	356,311	Jan. 18	1451	381	38	293
Gun. Magazine.....	G. V. Fosbery.....	366,211	July 12	628	{ 171 172 }	{ 40 41 }	127
Gun. Magazine.....	M. E. Gregg.....	374,597	Dec. 13	619	{ 161 162 }	{ 41 42 }	1175
Gun. Magazine.....	L. L. Hepburn.....	371,455	Oct. 11	1016	264	41	207
Gun. Magazine.....	A. W. Savage.....	366,512	July 12	1028	280	40	204
Gun. Magazine.....	S. A. Sullenberger.....	356,338	Jan. 18	1493	393	38	300
Gun-mounting.....	T. Nordenfelt.....	360,537	Apr. 5	209	51, 52	39	41
Gun-mounting for field artillery.....	T. Nordenfelt.....	372,323	Nov. 1	57	17, 18	41	482
Gun or fire-arm Repeating.....	J. W. Mullins.....	373,410	Nov. 15	1715	454	41	804
Gun or toy pistol. Spring.....	D. Rhodes.....	368,307	Aug. 16	1412	373	40	736
Gun-sight.....	G. W. Hadley.....	362,956	May 17	1270	336	39	723
Gun-sight.....	B. Long.....	370,344	Sept. 20	1479	396	40	1329
Gun. Spring.....	C. Alley.....	369,153	Aug. 30	2601	691	40	983
Gun. Spring.....	E. E. Brickley.....	370,601	Sept. 27	1879	498	40	1408
Gun. Spring.....	E. R. Lewis.....	362,096	May 3	61	18	39	485
Gun. Spring.....	J. F. Wilson.....	374,104	Nov. 29	2731	733	41	1021
Gun-washing apparatus.....	A. Noble.....	368,963	Aug. 30	2344	622	40	932
Gun-wiper.....	J. D. Smith.....	355,570	Jan. 4	359	96	38	72
Guns and shells. Electric firing mechanism for.....	W. W. Bradley and J. R. Holroyd.....	372,958	Nov. 8	1014	273	41	666
Guns. Apparatus for opening and closing the breech of heavy.....	C. H. Murray.....	373,598	Nov. 22	2008	532	41	871
Guns. Automatic sight for turret.....	A. Noble and C. H. Murray.....	370,156	Sept. 20	1221	{ 324 325 }	{ 40 41 }	1280
Guns. Carriage for machine.....	T. Nordenfelt.....	364,366	June 7	217	61	39	1130
Guns. Center-pivoted mounting for.....	J. Vavasseur.....	373,623	Nov. 22	2043	{ 543 544 }	{ 41 42 }	878
Guns. Lock for concealed-hammer.....	J. M. Holladay.....	365,383	June 28	1728	{ 447 448 }	{ 39 40 }	1439
Guns. Lock mechanism for breech-loading.....	C. Pierce and L. H. Smith.....	369,812	Sept. 13	683	{ 184 185 }	{ 40 41 }	1172
Guns. Manufacture of.....	H. S. Maxim.....	373,466	Nov. 22	1797	478	41	833
Guns. Mounting for quick-firing.....	R. T. Brankston.....	371,543	Oct. 18	1141	297	41	241
Guns. Portable parapet-mounting for.....	T. Nordenfelt.....	362,900	May 10	1183	316	39	700
Guns. Shell-ejecting mechanism for breech-loading.....	W. Anson.....	371,118	Oct. 4	548	140	41	109
Gunpowder.....	E. Schultze.....	359,289	Mar. 15	1242	.....	38	1147
Gunpowder. Manufacture of.....	T. Nordenfelt and V. A. Meurling.....	362,899	May 10	1182	.....	39	700
Gunpowder-press.....	H. Gruson.....	357,124	Feb. 1	563	{ 145 146 }	{ 38 39 }	525
Gunstock.....	A. T. Hibbard.....	371,886	Oct. 18	1650	426	41	342
Gutter-box for tinner's.....	C. F. Filson.....	357,075	Feb. 1	468	125	38	509
Gutters and pavements. Fastening device for.....	I. L. Landis.....	374,685	Dec. 13	734	192	41	1200
Gymnasiums. Walking-track for.....	R. J. Roberts.....	358,483	Mar. 1	90	22	38	920
Gynecological stirrup.....	C. H. Von Kline.....	357,694	Feb. 15	1391	366	38	698
Gynecological stirrup.....	C. E. Walton.....	358,513	Mar. 1	132	33	38	928
Hair-crimper.....	H. G. Guild.....	364,170	May 31	2991	777	39	1068
Hair crimper or curler.....	I. W. Heysinger.....	360,438	Apr. 5	61	16	39	13
Hair-curler.....	J. Gregory.....	374,246	Dec. 6	108	27	41	1067
Hair-curler.....	A. M. Smith.....	365,449	June 28	1822	474	39	1456
Hair-curler.....	J. T. Stansbury.....	372,092	Oct. 25	1963	505	41	407
Hair curler and crimper. Combined.....	N. M. Showman.....	369,035	Aug. 30	2444	649	40	952
Hair-cutting implement.....	A. Frey.....	375,546	Dec. 27	1960	510	41	1451
Hair. Machine for matting.....	A. L. Schneidt.....	360,918	Apr. 12	742	195	39	144
Hair or mustache curler.....	M. N. Posner.....	364,956	June 14	1087	283	39	1298
Hair-pin.....	J. H. Russell.....	356,263	Jan. 18	1376	364	38	279
Hair-pin.....	M. J. Steffens.....	370,096	Sept. 20	1131	299	40	1262
Hair-pins. Machine for making.....	W. H. Jackson.....	356,539	Jan. 25	1772	{ 461 462 }	{ 38 39 }	360
Hair-spring adjuster.....	A. L. Keller.....	362,750	May 10	973	264	39	661
Hair-spring collet.....	E. Hunziker.....	359,786	Mar. 22	2023	512	38	1305
Hair-spring-stud index.....	C. Teske.....	356,179	Jan. 18	1268	335	38	258
Hair-springs to collets. Fastening.....	E. Hunziker.....	539,390	Mar. 15	1395	357	38	1174
Hair-tonic.....	J. S. Moore.....	374,489	Dec. 6	457	.....	41	1133
Hair, wool, &c. Mothproofing.....	J. and J. Ruch, Jr.....	367,550	Aug. 2	283	.....	40	505
Halter.....	J. C. Covert.....	362,494	May 10	597	169	39	594
Halter.....	W. and J. L. Gethmann.....	371,754	Oct. 18	1446	374	41	303
Halter.....	E. R. Michaelis.....	360,035	Mar. 29	2427	616	38	1387
Halter.....	R. T. Moss.....	367,831	Aug. 9	724	195	40	597
Halter.....	W. G. Schaefer.....	370,163	Sept. 20	1240	329	40	1283
Halter.....	C. B. Thummel and D. Mitchell.....	357,643	Feb. 15	1317	347	38	685
Halter.....	W. H. Wheeler.....	363,033	May 17	1379	364	39	744
Halter.....	R. D. Whittemore.....	367,943	Aug. 9	886	241	40	628
Halter and hitching-strap. Combined.....	E. A. Grant.....	371,137	Oct. 4	574	147	41	114
Halter-clip.....	E. R. Michaelis.....	366,972	July 19	1667	448	40	332
Halter. Rope.....	J. C. Lynch and J. A. Petty.....	370,346	Sept. 20	1482	397	40	1329
Halter-snap.....	G. M. Stout.....	357,944	Feb. 15	1742	455	38	764
Halter-trimming.....	A. B. Arnold.....	363,311	May 17	1748	458	39	817
Halter-trimming.....	M. R. Dowlin.....	356,627	Jan. 25	1912	502	38	387
Halter-trimming.....	D. B. Harvey.....	374,832	Dec. 13	948	247	41	1241
Halter-trimming.....	B. E. and D. E. Martin.....	366,416	July 12	899	242	40	178
Halters. Chape for.....	J. W. Ropp.....	367,238	July 26	2047	551	40	412
Hame.....	F. Church.....	374,657	Dec. 13	697	183	41	1192
Hame.....	J. E. James.....	357,389	Feb. 8	933	245	38	604
Hame.....	R. W. Jones.....	370,196	Sept. 20	1283	342	40	1291
Hame.....	E. G. Latta.....	372,377	Nov. 1	139	41	41	496
Hame.....	D. Schoonmaker.....	368,856	Aug. 23	2185	580	40	893
Hame.....	T. E. Van Ness.....	361,032	Apr. 12	921	233	39	175

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hame. Adjustable	J. C. Sharp	358,078	Feb. 22	1938	511	38	806
Hame and collar fastener	H. L. Quigley	370,086	Sept. 20	1116	296	40	1259
Hame and draft-eye	W. H. Walker	367,479	Aug. 2	167	48	40	484
Hame and hame-tug attachment	F. Lagerlef	374,841	Dec. 13	961	251	41	1243
Hame and horse-collar. Combined	N. Johnson	366,219	July 12	643	174	40	129
Hame and ring therefor	T. S. Alexander	371,726	Oct. 18	1411	365	41	295
Hame attachment	L. H. Hockspeier	375,355	Dec. 27	1700	446	41	1401
Hame attachment	J. C. McCallman and W. A. Hutchinson.	374,983	Dec. 20	1195	310	41	1295
Hame-clip	P. W. Corcoran	367,787	Aug. 9	667	180	40	585
Hame-clip	A. F. Duvall	369,635	Sept. 6	451	126	40	1121
Hame-coupling	F. M. Franklin and J. G. Ryersee	366,161	July 5	556	150	40	105
Hame-coupling	F. W. Hoefer	369,338	Sept. 6	41	12	40	1042
Hame-coupling	A. J. Sonner	369,618	Sept. 6	425	119	40	1116
Hame-fastener	I. W. and H. L. Bowman	359,494	Mar. 15	1548	396	38	1203
Hame-fastener	H. H. Brandes	359,422	Mar. 15	1443	368	38	1184
Hame-fastener	B. M. Johnson	371,761	Oct. 18	1455	376	41	304
Hame-fastener	D. G. Miller	367,652	Aug. 2	440	122	40	535
Hame-fastener	J. S. Smith	365,645	June 28	2112	550	39	1513
Hame-fastener	T. and F. Staniland	371,860	Oct. 18	1609	415	41	335
Hame-fastener	E. M. Sturges	366,275	July 12	721	196	40	144
Hame-fastener	S. J. Wilson	371,906	Oct. 18	1678	433	41	347
Hame-fastener. Metallic	J. H. D. Everett	356,628	Jan. 25	1913	502	38	387
Hame-hitch and collar-fender. Combined	D. Patterson	374,622	Dec. 13	654	170	41	1182
Hame-irons. Uniting eyes to	G. M. Strong	358,501	Mar. 1	118	28	38	925
Hame-ring	L. E. Jones	358,742	Mar. 1	471	115	38	991
Hammer	W. K. Howes	356,248	Jan. 18	1360	359	38	276
Hammer and puller. Combined tack	J. Souders	371,105	Oct. 4	532	135	41	105
Hammer. Bush	H. Toomey	358,090	Feb. 22	1955	516	38	808
Hammer. Drop	H. A. Ainsworth	363,351	May 24	1809	475	39	837
Hammer. Drop	F. M. Leavitt	370,952	Oct. 4	316	78	41	63
Hammer. Magazine	N. Newman	362,224	May 3	231	67	39	517
Hammer. Power	M. Deering	355,512	Jan. 4	280	74, 75	38	56
Hammer. Power	M. Deering	368,384	Aug. 16	1506	402	40	755
Hammer. Power	W. R. Jenkins, Jr.	358,672	Mar. 1	379	91	38	974
Hammer. Power	W. R. Jenkins, Jr.	370,260	Sept. 20	1361	365 366 367	40	1306
Hammer. Tack	L. H. Hoover	365,255	June 21	1533	399	39	1389
Hammer tool. Revolving electric	W. G. A. Bonwill	374,580	Dec. 13	597	156	41	1171
Hammers. Lifting device for drop	W. S. Ward	357,433	Feb. 8	986	259	38	614
Hammock	T. H. Hartman	374,472	Dec. 6	431	112	41	1128
Hammock	V. P. Travers	363,096	May 17	1462	387	39	760
Hammock-chair	V. P. Travers	370,222	Sept. 20	1314	350	40	1297
Hammock-spreader	A. Nickerson	369,546	Sept. 6	318	88	40	1095
Hammock-stretcher	M. Campbell	374,776	Dec. 13	865	227	41	1225
Hammock-support and canopy-top. Combined	T. Ferguson	363,223	May 17	1634	429	39	795
Hammock-suspension device	L. Stulz and C. T. Wilson	364,190	May 31	3024	785	39	1074
Hammocks. Head-rest for	T. Humphrey	355,873	Jan. 11	817	213	38	166
Hand and spring motor. Combined	C. Nicholson	357,222	Feb. 8	706	182	38	561
Hand-drill	D. A. A. and A. A. Buck	355,585	Jan. 4	376	101	38	75
Hand-drill	A. Shepard	356,898	Feb. 1	221	61	38	462
Hand-dropper	R. F. Brumfield and J. E. Murphy	355,377	Jan. 4	110	30	38	23
Hand-hole plate	C. P. Higgins	358,394	Feb. 22	2379	632	38	888
Hand-press	G. W. King	369,990	Sept. 13	967	256	40	1225
Hand-protector for ball-players	E. Redmond	368,112	Aug. 9	1119	297	40	672
Hand-rake	J. Stewart	368,559	Aug. 16	1770	470	40	805
Hand-rest	H. W. Bearce	371,814	Oct. 18	1535	396	41	320
Hand-rest for penmen	A. C. Harrod	356,765	Feb. 1	32	10	38	429
Handcuff	D. C. Alden	372,836	Nov. 8	842	224	41	635
Handcuff	J. J. Tower	356,215	Jan. 18	1316	348	38	267
Handcuffs	E. D. Bean	372,510	Nov. 1	328	90	41	533
Handle:							
See Brake-handle.	Ratchet tool-handle.						
Cane-handle.	Sad-iron handle.						
Coffin-handle.	Saw-handle.						
Damper-handle.	Shovel-handle.						
Jug-handle.	Sunshade-handle.						
Knife-handle.	Tea-pot handle.						
Ladle or dipper handle.	Tool-handle.						
	Vessel-handle.						
Handle	W. H. Berger	368,053	Aug. 9	1042	279	40	657
Handle	G. Fitzsimmons	374,466	Dec. 6	425	111	41	1127
Handle	J. E. Gaitley	373,181	Nov. 15	1365	362	41	740
Handle	H. W. Morgan	364,724	June 14	727	193	39	1234
Handle and toilet-case. Combined	I. L. Myers	367,224	July 26	2029	546	40	408
Handle-bending mold	F. B. Newton	367,543	Aug. 2	272	77	40	503
Handle-fastening	C. J. Zeitinger	364,330	June 7	166	46	39	1120
Handle for chests, trunks, &c.	J. W. Doty	372,900	Nov. 8	934	252	41	652
Handle for tea-kettles, &c.	A. Bayley	367,263	July 26	2083	563	40	417
Handle joint. Extension	C. A. Bartliff	367,584	Aug. 2	335	95	40	515
Handles. Machine for making wire	P. Eley	356,195	Jan. 18	1287	341	38	261
Handles. Making hollow	W. W. Lee	365,829	July 5	97	27	40	20
Hanger:							
See Broom-hanger.	Paper-hanger.						
Cable-hanger.	Picture-hanger.						
Coat-hanger.	Picture cord and hook						
Curtain-hanger.	hanger.						
Door-hanger.	Picture-frame hanger.						
Eaves-trough hanger.	Pipe-hanger.						
Frame-hanger.	Shaft-hanger.						
Hat-hanger.	Shafting-hanger.						
Lamp-hanger.	Telephone-line hanger.						
Hardening compound	H. G. Hicks	372,619	Nov. 1	494		41	563

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Harmonica.....	A. P. S. Jones.....	362,970	May 17	1290	342	39	726
Harmonica.....	J. T. Smith.....	368,789	Aug. 23	2093	554	40	875
Harmonica-holder.....	A. F. Crandall.....	360,857	Apr. 12	655	172	39	129
Harmonica-holder.....	B. S. Ruddick.....	366,260	July 12	704	191	40	141
Harmonica. Mouth.....	J. F. Stratton.....	364,610	June 7	566	152	39	1194
Harmonicas. Sliding mouth-piece for.....	G. A. Delano.....	375,608	Dec. 27	2050	531	41	1466
Harness.....	G. W. Baird.....	363,881	May 31	2573	668	39	988
Harness.....	J. F. Barber.....	361,917	Apr. 26	2194	569	39	432
Harness.....	J. T. Barlow.....	368,747	Aug. 23	2034	539	40	864
Harness.....	A. Charles.....	372,517	Nov. 1	336	93	41	534
Harness.....	L. C. Erwin.....	369,282	Aug. 30	2767	738	40	1016
Harness.....	F. L. M. Granier.....	363,818	May 31	2487	645	39	972
Harness.....	A. Hofmann.....	361,874	Apr. 26	2137	554	39	421
Harness.....	A. Sherwood.....	374,430	Dec. 6	368	97	41	1116
Harness.....	A. Sherwood.....	374,431	Dec. 6	369	97	41	1116
Harness.....	A. W. Tourgée.....	370,909	Oct. 4	248	63, 64	41	49
Harness.....	L. Walker.....	362,686	May 10	882	240	39	645
Harness attachment.....	P. D. Derickx.....	369,322	Sept. 6	21	6	40	1039
Harness attachment.....	W. H. Du Bose.....	369,983	Sept. 13	959	253	40	1223
Harness attachment.....	R. Hawkins.....	370,943	Oct. 4	304	74	41	60
Harness. Attachment for double.....	G. E. Boughton.....	371,921	Oct. 25	1700	441	41	361
Harness back-band.....	I. Johnson.....	356,250	Jan. 18	1362	360	38	276
Harness back-pad. Rubber.....	E. W. Wall.....	372,882	Nov. 8	910	{ 245 } { 246 }	{ 41 }	647
Harness box-loop.....	G. W. Freeman.....	355,310	Jan. 4	24	7	38	6
Harness. Breeching for.....	E. S. Carpenter.....	362,248	May 3	257	73	39	523
Harness. Breeching-ring for.....	H. C. Maxwell.....	366,495	July 12	1001	272	40	199
Harness chafe and loop.....	F. W. R. Bradford.....	369,910	Sept. 13	839	222	40	1202
Harness-clasp.....	D. W. Lewis.....	362,165	May 3	156	45	39	503
Harness. Draft.....	M. E. Cook.....	355,591	Jan. 4	384	103	38	77
Harness-fastening loop.....	J. Detrick.....	374,177	Dec. 6	22	5	41	1050
Harness for rapid hitching.....	D. G. Sheridan.....	373,757	Nov. 22	2226	596	41	915
Harness for single horses.....	J. W. Jacobs.....	369,058	Aug. 30	2483	659	40	960
Harness-loop.....	T. S. Alexander.....	356,912	Feb. 1	237	65	38	465
Harness-loop.....	E. Barnard.....	368,271	Aug. 16	1364	359	40	726
Harness-loop.....	J. Fischer.....	375,277	Dec. 20	1593	418	41	1372
Harness-loop.....	M. E. Lasher.....	361,531	Apr. 19	1619	419	39	319
Harness-loop.....	A. Ramsay.....	372,171	Oct. 25	2073	531	41	429
Harness-loops. Machine for forming.....	C. Pelissier.....	366,024	July 5	382	103	40	72
Harness-martingale.....	C. E. Lincoln.....	365,694	June 28	2188	571	39	1527
Harness-mounting.....	E. R. Cahoon.....	357,575	Feb. 15	1219	321	38	667
Harness-mounting.....	E. R. Cahoon.....	361,811	Apr. 26	2035	529	39	402
Harness-mounting.....	E. R. Cahoon.....	374,344	Dec. 6	250	67	41	1094
Harness neck-pad.....	J. W. Johnson.....	374,189	Dec. 6	36	9	41	1053
Harness-pad.....	A. A. Allen.....	356,435	Jan. 25	1635	429	38	335
Harness-pad.....	E. T. Covell.....	357,981	Feb. 15	1800	472	38	774
Harness-pad.....	W. R. Empey.....	356,683	Jan. 25	1978	520	38	400
Harness-pad.....	J. S. Cusson.....	362,431	May 3	501	141	39	572
Harness-pad.....	W. S. Webster.....	374,024	Nov. 29	2609	700	41	997
Harness. Pole-strap attachment for double.....	P. W. Corcoran.....	364,633	June 14	601	161	39	1209
Harness. Racing.....	R. McClintock.....	368,727	Aug. 23	2012	533	40	859
Harness-rack. Suspension.....	W. H. Robinson.....	366,030	July 5	389	105	40	73
Harness-rosette. Detachable.....	J. Beal.....	375,691	Dec. 27	2172	565	41	1489
Harness-strap.....	I. Bergman.....	362,708	May 10	911	248	39	650
Harness-straps. Die for cutting.....	F. B. Raymond.....	356,662	Jan. 25	1955	513	38	396
Harness-straps. Die for forming.....	F. B. Raymond.....	369,031	Aug. 30	2440	{ 647 } { 648 }	{ 40 }	951
Harness-supporting device.....	H. C. James and C. A. Delavan.....	364,652	June 14	623	168	39	1213
Harness trimmer and burnisher.....	W. F. Graf and C. Kick.....	372,310	Nov. 1	38	12, 13	41	479
Harness. Wooden back-band for.....	E. D. Melancon.....	371,206	Oct. 11	670	171	41	140
Harp.....	W. G. Stevenson.....	356,803	Feb. 1	84	24	38	439
Harrow.....	H. W. Alshouse.....	364,203	June 7	8	3	39	1090
Harrow.....	O. F. Barber.....	361,853	Apr. 26	2104	546	39	415
Harrow.....	J. H. Barley.....	360,407	Apr. 5	7	2	39	4
Harrow.....	J. H. Barley.....	364,331	June 7	166	47	39	1120
Harrow.....	J. T. Bell and S. Ritty.....	370,037	Sept. 20	1052	279	40	1248
Harrow.....	W. P. Bonham.....	363,274	May 17	1699	445	39	808
Harrow.....	A. Byington.....	359,995	Mar. 29	2354	{ 593 } { 594 }	{ 38 }	1373
Harrow.....	S. H. Chadwick.....	365,046	June 21	1221	322	39	1333
Harrow.....	J. M. Childs.....	358,839	Mar. 8	620	153	38	1024
Harrow.....	T. R. Crane.....	364,575	June 7	526	141	39	1187
Harrow.....	J. G. Eberhart.....	357,911	Feb. 15	1697	442	38	755
Harrow.....	A. C. Evans.....	366,160	July 5	554	149	40	104
Harrow.....	F. M. Everingham.....	357,377	Feb. 8	910	240	38	600
Harrow.....	F. Findeisen.....	365,677	June 28	2164	564	39	1522
Harrow.....	E. A. Grady.....	357,278	Feb. 8	781	203	38	575
Harrow.....	J. T. and G. W. Hamilton.....	370,867	Oct. 4	172	45, 46	41	34
Harrow.....	W. I. Hargroder.....	361,284	Apr. 19	1290	330	39	256
Harrow.....	E. H. Hickerson.....	368,288	Aug. 16	1391	367	40	731
Harrow.....	C. Hodgkins.....	361,698	Apr. 26	1875	486	39	374
Harrow.....	J. S. Judson and J. Cameron.....	362,011	Apr. 26	2338	{ 609 } { 610 }	{ 39 }	456
Harrow.....	D. Lubin.....	357,151	Feb. 1	607	156	38	532
Harrow.....	G. J. Mansfield.....	355,458	Jan. 4	213	57	38	43
Harrow.....	M. C. Moore.....	370,154	Sept. 20	1220	324	40	1279
Harrow.....	J. A. Morsman.....	362,990	May 17	1314	348	39	731
Harrow.....	C. G. Mower.....	356,150	Jan. 18	1235	327	38	251
Harrow.....	J. B. Neff.....	361,229	Apr. 12	1222	311	39	232
Harrow.....	F. Nishwitz.....	360,614	Apr. 5	319	78, 79	39	61
Harrow.....	G. A. Paddock.....	366,735	July 19	1360	364	40	274
Harrow.....	W. W. Pope.....	371,275	Oct. 11	767	197	41	159
Harrow.....	C. W. Post.....	363,762	May 24	2405	624	39	951
Harrow.....	G. M. Powell.....	369,735	Sept. 13	579	158	40	1153

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Harrow	E. Rankin, Jr.	366,876	July 19	1548	415	40	309
Harrow	H. Rieke and C. J. Bannigan	367,665	Aug. 2	462	127	40	539
Harrow	D. W. Shares	365,104	June 21	1314	348	39	1348
Harrow	H. J. Sharp	358,700	Mar. 1	418	101	38	981
Harrow	A. W. Stevens	375,510	Dec. 27	1899	497	41	1440
Harrow	L. W. Stevens	371,902	Oct. 18	1672	432	41	346
Harrow	L. W. Stevens	374,159	Nov. 29	2805	753	41	1034
Harrow	L. W. Stevens	375,511	Dec. 27	1901	497	41	1440
Harrow	E. F. Stoddard	369,300	Aug. 30	2797	{ 745 746 }	{ 40 40 }	1022
Harrow	E. P. Stone	368,118	Aug. 9	1126	299	40	673
Harrow	G. I. Waughtal	357,254	Feb. 8	751	195	38	569
Harrow	E. E. Whipple	360,939	Apr. 12	778	202	39	150
Harrow	W. H. Wilson	373,709	Nov. 22	2166	579	41	904
Harrow	R. Yerington	370,670	Sept. 27	1977	524	40	1428
Harrow	J. Zimmerman	360,640	Apr. 5	353	88	39	67
Harrow. Adjustable	W. T. Parker	358,622	Mar. 1	305	73	38	960
Harrow and clod-crusher. Combined	W. Brown	369,686	Sept. 13	520	144	40	1143
Harrow and cultivator	J. G. Bailey	358,321	Feb. 22	2278	601	38	869
Harrow and cultivator	D. J. Williams	358,096	Feb. 22	1961	518	38	809
Harrow and cultivator. Combined	C. Hayes	357,928	Feb. 15	1721	449	38	759
Harrow and cultivator. Combined	R. Stuckwisch	365,762	June 28	2294	{ 596 597 }	{ 39 39 }	1546
Harrow and cultivator. Side	G. W. Randolph	366,607	July 12	1178	316	40	233
Harrow and cultivator tooth fastening	F. Wilcox	364,039	Aug. 9	1018	275	40	653
Harrow and pulverizer	S. Rothchild	362,464	May 3	555	154	39	581
Harrow and roller. Combined	E. H. Neff	372,759	Nov. 8	701	193	41	612
Harrow and roller. Riding	E. W. Benway	360,554	Apr. 5	239	59, 60	39	46
Harrow and seeder. Combined	C. Svendsen	373,159	Nov. 15	1330	{ 352 353 354 }	{ 41 41 41 }	734
Harrow and seeder. Combined disk	D. W. Hartis and J. L. Rea	358,353	Feb. 22	2322	{ 615 616 }	{ 38 38 }	877
Harrow and seeder. Combined wheeled	J. C. Noel and G. Parton	369,072	Aug. 30	2503	664	40	963
Harrow attachment	J. D. Armstrong	370,755	Oct. 4	2	1	41	3
Harrow attachment	C. Kessler	370,264	Sept. 20	1370	368	40	1308
Harrow attachment	N. W. Rew	361,836	Apr. 26	2074	{ 539 540 }	{ 39 39 }	409
Harrow attachment	F. P. Sherwood	368,018	Aug. 9	994	267	40	649
Harrow. Disk	G. M. Clark	369,163	Aug. 30	2614	694	40	986
Harrow. Disk	M. G. Elliott	373,278	Nov. 15	1510	398	41	766
Harrow. Disk	C. La Dow	360,352	Mar. 29	2914	742	38	1476
Harrow. Disk	D. E. McSherry	357,724	Feb. 15	1437	377	38	707
Harrow. Disk	L. E. Phelps, R. K. Swift, and J. J. A. Zeller	368,609	Aug. 23	1837	491	40	827
Harrow. Disk	G. R. Thomson	359,909	Mar. 22	2215	557	38	1340
Harrow-disks. Device for sharpening	H. Dick	374,782	Dec. 13	873	230	41	1257
Harrow draft attachment	J. Sanders	371,479	Oct. 11	1046	272	41	212
Harrow for cultivating listed corn	J. A. Pimlot	375,379	Dec. 27	1733	455	41	1407
Harrow or cultivator	L. F. Hartman	370,138	Sept. 20	1202	318	40	1275
Harrow or cultivator teeth. Device for securing	D. McKenzie	358,869	Mar. 8	678	168	38	1033
Harrow or cultivator tooth	A. Clark	356,985	Feb. 1	339	50	38	485
Harrow or cultivator tooth	G. Reid	367,845	Aug. 9	745	200	40	601
Harrow. Pulverizing	R. L. Lukens	364,831	June 14	902	238	39	1264
Harrow. Rotary	J. R. Hicks	369,600	Sept. 6	395	109	40	1110
Harrow. Rotary	J. R. Hicks. (Reissue)	10,868	Sept. 27	2106	558	40	1152
Harrow. Rotary	H. J. Hilf	368,586	Aug. 23	1805	481	40	821
Harrow. Rotary	H. P. Nichols	359,626	Mar. 22	1777	453	38	1261
Harrow. Rotary	R. Rakestraw	364,130	May 31	2934	762	39	1057
Harrow. Rotating sulky	E. F. Duncan	356,032	Jan. 11	1047	275	38	212
Harrow, smoother, and seeder. Combined	J. M. Poore	359,363	Mar. 15	1345	347	38	1165
Harrow. Spring-tooth	G. W. Gorsuch	368,146	Aug. 9	1168	311	40	681
Harrow. Spring-tooth	E. W. Herendeen	359,970	Mar. 22	2316	583	38	1359
Harrow. Spring-tooth	W. S. Lawrence	359,539	Mar. 15	1616	414	38	1216
Harrow. Spring-tooth	J. Long	369,115	Aug. 30	2559	680	40	974
Harrow. Spring-tooth	L. Sweet	358,950	Mar. 8	790	199	38	1055
Harrow. Spring-toothed	L. W. Stevens	371,903	Oct. 18	1673	432	41	346
Harrow. Sulky	W. R. Archer	372,651	Nov. 8	546	150	41	553
Harrow. Sulky	N. H. Benton and H. L. Godding	365,962	July 5	292	78	40	56
Harrow. Sulky	N. H. Benton and H. L. Godding	372,357	Nov. 1	106	31	41	491
Harrow. Sulky	N. T. Collins	364,483	June 7	393	{ 106 107 }	{ 39 39 }	1162
Harrow. Sulky	W. Richards	362,784	May 10	1031	280	39	672
Harrow. Swing-tooth	E. W. Herendeen	359,969	Mar. 22	2315	582	38	1359
Harrow-tooth	E. D. Cook	355,302	Jan. 4	15	5	38	5
Harrow-tooth and false point. Adjustable spring	J. H. Higgins	362,626	May 10	795	218	39	628
Harrow-tooth attachment	G. Sweet	361,792	Apr. 26	2011	524	39	398
Harrow-tooth fastening	H. S. Howard	363,640	May 24	2232	578	39	918
Harrow-tooth holder	P. H. Wilms	370,915	Oct. 4	269	66	41	53
Harrow-tooth holder. Spring	P. A. Spicer	369,037	Aug. 30	2447	649	40	952
Harrow-tooth seat	D. B. Smith	360,975	Apr. 12	836	214	39	160
Harrow. Two-wheeled	A. J. Glass and H. Kimball	362,950	May 17	1257	333	39	720
Harrow. Wheel	M. Chandler	358,838	Mar. 8	617	153	38	1023
Harrow. Wheel	C. Rusterholtz	372,489	Nov. 1	297	82	41	527
Harrow. Wheel	G. Sweet	367,462	Aug. 2	141	41	40	478
Harrow. Wheel	J. A. Van Tassel	359,478	Mar. 15	1522	{ 389 390 }	{ 38 38 }	1199
Harrow. Wheel	W. Wilkes	359,339	Mar. 15	1309	340	38	1159
Harrow. Wheel or disk	A. G. Hill	360,093	Mar. 29	2523	642	38	1404
Harvester	J. Bissing	364,748	June 14	763	{ 202 203 }	{ 39 39 }	1240
Harvester	G. Chapman	374,521	Dec. 6	502	131	41	1143
Harvester	C. Clapp	370,609	Sept. 27	1892	{ 502 503 }	{ 40 40 }	1411

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Harvester.....	J. S. Davis.....	368,280	Aug. 16	1381	{ 364 365 }	{ 40 }	729
Harvester.....	H. R. Ingledue.....	363,746	May 24	2383	619	39	947
Harvester.....	W. G. Kennedy and H. O. Gadberry.....	362,093	May 3	57	17	39	484
Harvester.....	X. H. Martinent.....	356,655	Jan. 25	1944	510	38	394
Harvester.....	J. C. McLachlan.....	357,616	Feb. 15	1272	334	38	677
Harvester.....	C. Miller.....	364,127	May 31	2926	{ 760 761 }	{ 39 }	1056
Harvester.....	A. B. Mouck.....	375,376	Dec. 27	1729	454	41	1406
Harvester.....	W. F. Olin.....	370,082	Sept. 20	1111	295	40	1258
Harvester.....	E. A. Peck.....	356,956	Feb. 1	294	81, 82	38	476
Harvester.....	F. Savage.....	357,102	Feb. 1	507	135	38	516
Harvester.....	G. H. Spaulding.....	363,014	May 17	1349	357	39	734
Harvester.....	G. H. Spaulding.....	373,494	Nov. 22	1849	492	41	842
Harvester.....	J. F. Steward.....	360,120	Mar. 29	2580	655	38	1414
Harvester.....	J. Wedlake.....	368,260	Aug. 16	1349	356	40	723
Harvester.....	W. N. Whiteley.....	358,239	Feb. 22	2167	571	38	847
Harvester.....	W. N. Whiteley and W. Bayley.....	355,959	Jan. 11	956	250	38	193
Harvester.....	J. K. Worthington.....	360,835	Apr. 5	620	165	39	116
Harvester and binder.....	C. Colahan.....	358,922	Mar. 8	755	188	38	1048
Harvester and binder. Combined.....	D. Strunk.....	370,360	Sept. 20	1505	{ 403 404 }	{ 40 }	1334
Harvester and husker. Hand corn.....	A. Steiner.....	358,496	Mar. 1	108	26, 27	38	924
Harvester-backboard.....	J. F. Steward and R. H. Dixon.....	360,786	Apr. 5	549	143	39	103
Harvester. Bean.....	P. and W. W. Rulifson.....	364,603	June 7	560	151	39	1193
Harvester-binder.....	R. and F. Aldred.....	365,561	June 28	1995	{ 520 521 }	{ 39 }	1491
Harvester-binder.....	D. Maxwell.....	364,837	June 14	913	{ 242 243 }	{ 39 }	1266
Harvester-binder.....	F. D. and J. S. Mercer.....	368,542	Aug. 16	1745	464	40	799
Harvester-binder. Low-down.....	J. J. Piersol.....	357,026	Feb. 1	395	{ 106 107 }	{ 38 }	495
Harvester. Broom-corn.....	C. R. Huckleberry and F. W. Reese.....	362,511	May 10	622	{ 175 176 }	{ 39 }	598
Harvester bundle-carrier.....	J. F. Appleby.....	362,141	May 3	120	36	39	496
Harvester bundle-carrier.....	S. V. Kennedy and C. A. Anderson.....	366,403	July 12	886	238	40	175
Harvester butting-board.....	C. H. Salzman.....	369,741	Sept. 13	585	159	40	1154
Harvester. Cane or corn.....	A. J. Shaw.....	372,870	Nov. 8	888	{ 238 239 }	{ 41 }	643
Harvester canvas-belt buckler.....	J. W. Tucker.....	357,644	Feb. 15	1317	347	38	685
Harvester. Clover.....	M. G. Mueller.....	364,949	June 14	1079	281	39	1296
Harvester. Corn.....	G. G. F. and J. E. Boswell.....	361,483	Apr. 19	1558	404	39	306
Harvester. Corn.....	J. T. Hess.....	357,673	Feb. 15	1363	359	38	692
Harvester. Corn.....	J. M. Irwin.....	368,890	Aug. 23	2231	594	40	902
Harvester. Corn.....	J. K. O'Neil.....	366,636	July 12	1217	{ 325 326 }	{ 40 }	241
Harvester. Corn.....	J. R. Wilson.....	359,828	Mar. 22	2079	526	38	1316
Harvester. Corn and sugar-cane.....	F. L. Senour.....	366,797	July 19	1439	385	40	288
Harvester. Corn or cane.....	T. Merrell.....	371,087	Oct. 4	504	{ 126 127 }	{ 41 }	99
Harvester. Cotton.....	O. T. Bugg.....	359,554	Mar. 15	1647	421	38	1222
Harvester. Cotton.....	F. M. Hanks.....	359,724	Mar. 22	1916	486	38	1287
Harvester. Cotton.....	D. B. Haselton.....	364,759	June 14	791	209	39	1244
Harvester. Cotton.....	W. L. Langley.....	372,918	Nov. 8	957	{ 259 260 }	{ 41 }	656
Harvester. Cotton.....	J. Rawle.....	362,588	May 10	731	{ 203 204 }	{ 39 }	617
Harvester. Cotton.....	G. N. Todd.....	367,075	July 26	1807	488	40	366
Harvester-cutter.....	J. F. Walker.....	371,288	Oct. 11	785	201	41	162
Harvester cutter-bar.....	D. B. Detweiler.....	365,588	June 28	2041	532	39	1500
Harvester cutter-bar.....	J. W. Shull.....	366,742	July 19	1369	366	40	276
Harvester cutting apparatus.....	S. P. Bunch.....	370,762	Oct. 4	15	4	41	6
Harvester cutting apparatus.....	J. Crist.....	362,821	May 10	1069	290	39	679
Harvester cutting apparatus.....	T. S. Houger.....	359,256	Mar. 15	1195	312	38	1138
Harvester draft-equalizer.....	E. L. Devore and E. O. Keck.....	360,514	Apr. 5	181	44	39	35
Harvester-elevator.....	M. E. Benedict.....	372,889	Nov. 8	918	248	41	649
Harvester-gearing.....	J. F. Steward.....	361,465	Apr. 19	1535	{ 397 398 }	{ 39 }	302
Harvester. Grain.....	C. Clapp.....	370,608	Sept. 27	1888	{ 501 502 }	{ 40 }	1411
Harvester. Grain.....	L. W. Noyes.....	358,062	Feb. 22	1916	506	38	801
Harvester. Grain.....	L. W. Noyes.....	358,063	Feb. 22	1919	507	38	802
Harvester. Grain.....	W. F. Olin.....	368,964	Aug. 30	2345	623	40	932
Harvester. Grain.....	T. O. Perry.....	355,660	Jan. 4	494	131	38	96
Harvester. Grain.....	J. M. Spangler.....	356,171	Jan. 18	1260	333	38	256
Harvester. Grain.....	A. Stark.....	357,640	Feb. 15	1313	{ 345 346 }	{ 38 }	684
Harvester. Grain.....	A. Stark.....	360,061	Mar. 29	2471	{ 629 630 }	{ 38 }	1395
Harvester. Grain.....	A. Stark.....	372,339	Nov. 1	77	23, 24	41	486
Harvester. Grain.....	J. F. Steward, H. N. and B. A. Kennedy.....	372,340	Nov. 1	83	24, 25	41	487
Harvester. Grain.....	W. N. Whiteley and W. Bayley.....	370,298	Sept. 20	1413	380	40	1316
Harvester. Grain-binding.....	W. P. Hale.....	372,067	Oct. 25	1918	{ 445 446 447 }	{ 41 }	400
Harvester. Grain-binding.....	J. Harrison.....	362,004	Apr. 26	2327	607	39	454
Harvester. Grain-binding.....	L. Miller.....	361,964	Apr. 26	2271	591	39	445
Harvester. Grain-binding.....	L. Miller.....	371,698	Oct. 18	1369	354	41	286
Harvester. Grain-binding.....	L. Miller and A. E. Ellinwood.....	364,275	June 7	99	29	39	1108
Harvester. Low-binding.....	J. C. and G. A. Cunningham.....	368,910	Aug. 23	2262	{ 601 602 }	{ 40 }	908
Harvester. Pea, bean, or rice.....	B. O. Savage.....	371,372	Oct. 11	902	232	41	184
Harvester-pitman.....	H. L. Hopkins.....	357,007	Feb. 1	370	98	38	491

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Harvester-platforms. Clearing attachment for	D. Ralston.....	365,097	June 21	1303	{ 344 345	{ 39	1347
Harvester-rake.....	L. W. Noyes.....	358,064	Feb. 22	1920	507	38	802
Harvester-rake	H. E. Pridmore.....	362,038	Apr. 26	2372	{ 618 619	{ 39	462
Harvester-reel	W. Butterfield.....	366,301	July 12	751	203	40	149
Harvester-reel	J. C. and G. A. Cunningham	375,694	Dec. 27	2176	566	41	1490
Harvester-reel	J. Eagleston	359,855	Mar. 22	2138	539	38	1326
Harvester-reel	J. Giles	357,662	Feb. 15	1346	354	38	690
Harvester-reel	W. P. Hale	372,068	Oct. 25	1927	497	41	401
Harvester-reel	G. G. Hunt	366,004	July 5	348	94	40	66
Harvester-reel	H. E. Taylor.....	361,848	Apr. 26	2097	544	39	414
Harvester reel-support.....	A. O. Slentz	365,642	June 28	2108	{ 519 550	{ 39	1512
Harvester-reels. Adjustment for.....	J. Gilbert.....	357,822	Feb. 15	1585	411	38	734
Harvester. Rice.....	T. S. Marshall.....	362,026	Apr. 26	2358	615	39	460
Harvester. Self-binding.....	L. W. Noyes.....	366,501	July 12	1006	{ 275 276	{ 40	200
Harvester. Stalk.....	G. G. F. Boswell.....	360,652	Apr. 5	369	93	39	70
Harvesters and binders. Sheaf-carrier for.....	J. Miller.....	366,595	July 12	1159	311	40	229
Harvesters and mowing-machines. Attachment for.....	J. C. Jones and S. B. Marshall.....	365,749	June 28	2277	592	39	1543
Harvesters. Apron-fastener for	D. J. Ames	360,402	Apr. 5	1	1	39	3
Harvesters. Bundle-carrier for grain.....	L. W. Noyes	366,601	July 12	1169	314	40	231
Harvesters. Butting attachment for.....	O. B. Colcord	364,397	June 7	258	74	39	1138
Harvesters. Cutting mechanism for.....	J. W. Duncan and C. L. Mills	358,388	Feb. 22	2369	630	38	886
Harvesters. Cutting mechanism for.....	F. Van den Bosch	357,512	Feb. 8	1100	290	38	635
Harvesters. Elevator-apron for	F. J. Coddington.....	369,164	Aug. 30	2616	694	40	987
Harvesters. Folding platform for	S. F. Voorhees.....	370,430	Sept. 27	1615	{ 430 431	{ 40	1361
Harvesters. Folding platform for grain.....	S. F. Voorhees	374,814	Dec. 13	921	240	41	1235
Harvesters. Gavel-deliverer for.....	W. A. Cooley	372,457	Nov. 1	255	70, 71	41	519
Harvesters. Grain-adjusting device for.....	W. N. Whiteley	372,505	Nov. 1	322	88	41	531
Harvesters. Grain-binder for	E. W. Jenkins.....	360,962	Apr. 12	813	{ 209 210	{ 39	156
Harvesters. Mechanism for shifting the binder and grain-adjuster in.....	E. A. Peck	366,426	July 12	908	{ 245 246	{ 40	180
Harvesters. Pan or tray for berry.....	J. Benedict.....	370,368	Sept. 27	1523	409	40	1345
Harvesters. Picker-stem for cotton.....	W. L. Langley.....	372,919	Nov. 8	960	261	41	656
Harvesters. Self-binder for	G. A. Gill.....	373,454	Nov. 22	1775	{ 471 472	{ 41	828
Harvesters. Self-raking attachment for	M. Dew	373,055	Nov. 15	1170	313	41	704
Harvesters. Sheaf-discharger for grain-binding	M. M. Hooton	374,303	Dec. 6	187	50	41	1082
Harvesters. Tilting device for	J. Keller	360,226	Mar. 29	2738	693	38	1443
Harvesters. Twine guide and tension device for	J. H. Rose	356,377	Jan. 18	1545	406	38	311
Harvesters. Twine-holder alarm for.....	J. Davaine.....	373,225	Nov. 15	1439	380	41	753
Harvesting-machine.....	C. Eyster and J. Bugh.....	367,381	Aug. 2	32	9	40	457
Harvesting-machine.....	J. Giles	362,887	May 10	1164	311	39	696
Harvesting-machine	E. W. Jenkins	364,653	June 14	623	{ 168 169	{ 39	1214
Harvesting-machine.....	J. Knoop	374,601	Dec. 13	626	163	41	1177
Harvesting-machine	J. W. McAlister.....	356,656	Jan. 25	1946	510	38	394
Harvesting-machine.....	L. W. Noyes.....	358,061	Feb. 22	1912	{ 505 506	{ 38	800
Harvesting-machine	A. Stark.....	355,728	Jan. 11	601	157	38	128
Harvesting-machine	W. N. Whiteley	365,324	June 21	1628	{ 424 425	{ 39	1407
Harvesting machine. Corn.....	C. W. Wardwell.....	360,069	Mar. 29	2487	632	38	1398
Harvesting machine. Cotton.....	C. T. Mason, Jr.....	371,960	Oct. 25	1753	{ 454 455	{ 41	371
Harvesting machine. Potato.....	A. T. Dowden	357,119	Feb. 1	555	144	38	524
Harvesting-machines. Compressor for	C. H. Salzman	367,852	Aug. 9	753	{ 202 203	{ 40	603
Harvesting-machines. Cutter-bar for.....	J. B. Beam.....	366,197	July 12	608	{ 165 166	{ 40	123
Harvesting machines. Cutting apparatus for grain.....	D. M. Osborne.....	358,216	Feb. 22	2138	564	38	842
Harvesting-machines. Folding reel for.....	H. Kellogg	366,114	July 5	491	{ 132 133	{ 40	92
Harvesting, picking, and husking corn. Machine for.....	W. Spear	375,016	Dec. 20	1236	{ 322 323 324	{ 41	1303
Hasp-lock.....	E. Knight	359,681	Mar. 22	1852	470	38	1276
Hasp-lock.....	B. W. Leonard	365,613	June 28	2072	540	39	1506
Hasp-lock.....	F. W. Mix	362,986	May 17	1308	347	39	730
Hasp-lock.....	F. W. Mix	365,534	June 28	1953	508	39	1484
Hasp-lock.....	H. J. Moore	362,458	May 3	547	152	39	579
Hasp-lock.....	J. Shaw	363,008	May 17	1342	355	39	736
Hat.....	A. Brahadi	372,514	Nov. 1	332	92	41	533
Hat.....	J. R. Miller.....	358,215	Feb. 22	2137	564	38	842
Hat.....	R. Plato	364,129	May 31	2934	762	39	1057
Hat.....	H. F. Price	371,970	Oct. 25	1772	459	41	375
Hat.....	A. B. Waring	356,673	Jan. 25	1966	516	38	398
Hat and clothes hook. Combined.....	J. C. Lee	364,658	June 14	630	170	39	1215
Hat and coat hook. Combined	M. M. Raymond	366,608	July 12	1180	316	40	233
Hat and coat rack.....	T. J. McConnoughay	371,205	Oct. 11	669	171	41	140
Hat-block.....	J. B. Howe and F. D. Fry	357,996	Feb. 15	1819	478	38	778
Hat-bodies, &c. Felting-machine for	J. T. Waring	357,350	Feb. 8	872	230	38	592
Hat-bodies. Machine for manufacturing	T. Shirley	373,205	Nov. 15	1407	{ 371 372	{ 41	747
Hat-brims. Rounding-jack for	M. Hild.....	368,397	Aug. 16	1525	408	40	759
Hat-fastener.....	L. F. Gardner.....	360,770	Apr. 5	529	137	39	99
Hat-felting machine.....	J. C. Grant	363,329	May 17	1776	465	39	821
Hat-felting machine.....	J. C. Grant and J. C. Brush	361,586	Apr. 19	1703	440	39	333
Hat-hanger.....	A. W. Jeynes.....	372,151	Oct. 25	2049	525	41	424
Hat-hanger	T. A. Johnson.....	375,634	Dec. 27	2088	544	41	1474

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Hat-hanging hook.....	J. Shea.....	355,564	Jan. 4	352	94	38	71
Hat-holder.....	W. H. Atwood.....	359,953	Mar. 22	2283	574	38	1353
Hat-holder.....	E. B. Culver.....	361,577	Apr. 19	1690	436	39	330
Hat-holder.....	J. M. Harrison.....	369,786	Sept. 13	644	174	40	1165
Hat-holder.....	J. M. Harrison.....	370,618	Sept. 27	1905	506	40	1414
Hat-hook.....	O. I. Foster.....	357,192	Feb. 8	670	174	38	554
Hat-hook.....	A. H. R. Guiley.....	366,477	July 12	973	264	40	193
Hat-hook.....	G. and F. Pape.....	364,038	May 31	2806	727	39	1033
Hat luring or pouncing machine.....	D. W. Gitchell.....	373,888	Nov. 29	2420	650	41	959
Hat or coat hook.....	J. Lotz.....	370,959	Oct. 4	332	82	41	65
Hat-protector.....	M. E. C. Hopkirk.....	357,200	Feb. 8	682	176	38	556
Hat-pouncing machine.....	H. Griffin.....	369,520	Sept. 6	280	78	40	1087
Hat-pouncing machines. Attachment for.....	G. Van Wart.....	367,169	July 26	1940	523	40	390
Hat-pouncing machines. Expanding holder or block for.....	A. Campbell.....	365,575	June 28	2017	526	39	1495
Hat-pouncing tool.....	F. C. Taylor and D. C. Scovill.....	374,212	Dec. 6	61	16	41	1058
Hat-rack.....	R. E. Gleason.....	374,830	Dec. 13	945	247	41	1240
Hat ring and stay. Wire.....	S. T. Newman.....	361,833	Apr. 26	2071	539	39	409
Hat-sizing machine.....	S. C. Palmer.....	365,852	July 5	131	35	40	27
Hat-stretcher.....	T. S. Carroll.....	368,068	Aug. 9	1062	284	40	661
Hat-stretching machine.....	W. Simmonds.....	375,013	Dec. 20	1232	321	41	1302
Hat-sweat.....	J. Burthoul.....	359,772	Mar. 22	2001	506	38	1301
Hat-sweat.....	A. Campbell.....	365,578	June 28	2022	527	39	1496
Hat sweat and ventilator. Combined.....	A. Campbell.....	365,576	June 28	2019	526	39	1496
Hat sweat-band.....	T. W. Bracher.....	367,266	July 26	2086	563	40	418
Hat sweat-band.....	A. Campbell.....	365,577	June 28	2021	527	39	1496
Hat-sweats. Finishing the attaching edges of.....	F. L. Butler.....	374,654	Dec. 13	694	182	41	1191
Hat-ventilator.....	F. C. Bowen.....	357,364	Feb. 8	889	234	38	595
Hat-wire.....	H. H. Kellner.....	365,185	June 21	1426	376	39	1369
Hats and other articles. Apparatus for drying.....	W. H. Kendall.....	358,674	Mar. 1	381	91	38	974
Hats. Apparatus for forming bats for felt.....	W. Carrick, Jr.....	366,816	July 19	1465	391	40	293
Hats. Crate for shipping and packing.....	S. P. Svensson.....	370,989	Oct. 4	383	96	41	76
Hats. Luring or lustering.....	D. W. Gitchell.....	373,889	Nov. 29	2421	650	41	959
Hats. Machine for blocking and shaping.....	R. Eickemeyer.....	361,353	Apr. 19	1382	{ 355 356 357 }	{ 39 39 39 }	{ 273 273 273 }
Hats. Machine for pressing straw.....	S. Beatty.....	366,066	July 5	433	118	40	82
Hats. Machine for stiffening.....	F. J. Murphy and A. M. Rundle.....	361,073	Apr. 12	975	247	39	186
Hats. Making.....	A. Materne and J. Springer.....	370,963	Oct. 4	336	84	41	66
Hats. Making.....	R. H. Trested.....	367,253	July 26	2070	559	40	416
Hats. Making sweat-bands for.....	J. A. Joyce.....	365,474	June 28	1860	483	39	1403
Hats. Manufacture of.....	A. Campbell.....	368,188	Aug. 16	1232	329	40	701
Hats. Method of and apparatus for pouncing.....	J. C. Wilson.....	366,804	July 19	1447	387	40	290
Hats or bonnets and method of making the same.....	C. Daniels.....	366,572	July 12	1122	300	40	224
Hats or caps and making the same. Sweat-band for.....	C. F. Kessler.....	358,859	Mar. 8	664	166	38	1031
Hats or caps. Making sweat-bands for.....	A. Morehouse.....	356,416	Jan. 18	1600	420	38	320
Hats. Pressing straw.....	S. Beatty.....	366,067	July 5	434	118	40	82
Hats. Tool for curling brims of.....	R. Eickemeyer.....	360,865	Apr. 12	668	175	39	131
Hats. Trimming for.....	M. Fuchs.....	361,756	Apr. 26	1956	510	39	388
Hatchway.....	J. E. Kaiss.....	375,072	Dec. 20	1317	344	41	1317
Hatchway-doors. Device for operating.....	C. P. Stanford.....	368,432	Aug. 16	1583	{ 422 423 }	{ 40 40 }	{ 770 770 }
Hatchway. Elevator.....	W. M. Carter.....	363,506	May 24	2036	530	39	881
Hatchway. Elevator.....	W. C. Freck.....	368,145	Aug. 9	1167	311	40	680
Hatchway. Elevator.....	E. Spencer.....	373,619	Nov. 22	2038	542	41	877
Hatchway for elevators.....	F. L. Darrach.....	373,554	Nov. 22	1947	516	41	859
Hatchway for elevators. Automatic.....	A. J. Blaikie.....	370,308	Sept. 20	1426	383	40	1319
Hatchway-guard. Automatic.....	J. A. Barclay.....	372,057	Oct. 25	1906	491	41	398
Hatchway-operating device.....	P. Byrne.....	365,791	July 5	38	11	40	9
Hatchway. Self-closing.....	P. V. Bail.....	364,884	June 14	981	258	39	1279
Hatchways. Means for operating elevator.....	F. K. Fassett.....	374,243	Dec. 6	104	26	41	1067
Hawse and deck-pipe stopper.....	R. Lavery.....	360,164	Mar. 29	2653	670	38	1426
Hay and manure forks. Manufacture of.....	P. C. E. Uldall.....	364,614	June 7	570	153	39	1195
Hay and stock rack.....	S. E. Combs.....	368,653	Aug. 23	1889	504	40	837
Hay and stock rack.....	H. Hoerman.....	355,765	Jan. 11	648	169	38	136
Hay and straw cutter.....	C. A. Clark.....	360,559	Apr. 5	248	61	39	48
Hay-baler.....	W. D. Arnett.....	358,245	Feb. 22	2175	573	38	849
Hay-burner.....	G. Laube.....	371,332	Oct. 11	842	216	41	173
Hay-carrier.....	W. H. Burnham and J. H. Miller.....	368,511	Aug. 16	1703	453	40	792
Hay-carrier.....	R. C. Jordan.....	365,750	June 28	2278	592	39	1543
Hay-carrier.....	P. A. Myers.....	365,757	June 28	2289	595	39	1545
Hay-carrier counter-balance.....	J. Meggers.....	372,693	Nov. 8	607	165	41	595
Hay-carrier track.....	A. and J. Murchey and W. Luttrell.....	375,089	Dec. 20	1344	351	41	1322
Hay-carriers. Pulley stripper-block for.....	T. B. Elliott.....	374,949	Dec. 20	1145	299	41	1286
Hay-carriers. Track for.....	A. J. Burbank.....	366,921	July 19	1599	428	40	319
Hay-carriers. Track for.....	H. Fisher.....	362,438	May 3	510	143	39	573
Hay-cocking machine.....	T. and H. Hale and S. D. Harvey.....	371,314	Oct. 11	823	210	41	169
Hay-drag.....	W. B. Null.....	359,462	Mar. 15	1492	382	38	1194
Hay-elevator.....	E. O., W. O., and H. S. Long.....	365,528	June 28	1946	{ 506 507 }	{ 39 39 }	{ 1482 1482 }
Hay-elevator.....	J. Ney.....	360,816	Apr. 5	590	{ 154 155 }	{ 39 39 }	{ 111 111 }
Hay-elevator.....	P. G. Strickler.....	356,431	Jan. 18	1624	425	38	325
Hay elevator and stacker.....	P. F. Fleming.....	374,787	Dec. 13	882	231	41	1228
Hay-elevator and track for the same.....	B. Oborn.....	362,307	May 3	328	90	39	537
Hay-elevator track.....	T. C. Belding.....	362,567	May 10	700	195	39	612
Hay-fork.....	E. V. R. Gardner.....	358,738	Mar. 1	466	114	38	990
Hay-fork.....	J. W. Provan.....	360,783	Apr. 5	546	141	39	102
Hay-fork.....	C. W. Robertson.....	357,037	Feb. 1	417	111	38	499
Hay-fork.....	G. M. Ross.....	361,650	Apr. 19	1804	468	39	353
Hay-gatherer.....	J. H. and S. W. Humphrey.....	361,877	Apr. 26	2143	{ 555 556 }	{ 39 39 }	{ 422 422 }
Hay-knife.....	M. M. Bartlett.....	359,124	Mar. 8	1018	263	38	1098
Hay-loader.....	M. Beck.....	361,118	Apr. 12	1039	263	39	198

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Hay-loader	T. A. Carter	359,843	Mar. 22	2119	533	38	1322
Hay-loader	T. Grapes	368,203	Aug. 16	1254	{ 334 335	{ 40	705
Hay-loader	J. W. Hogeland	355,991	Jan. 11	996	{ 261 262	{ 38	202
Hay-loader	A. Lasack	356,541	Jan. 25	1779	463	38	362
Hay-loader	W. S. Nichols	365,194	June 21	1437	379	39	1372
Hay loader and stacker	M. C. and J. M. Isom	356,316	Jan. 18	1455	382	38	294
Hay loader and stacker	M. R. Jenkins	374,966	Dec. 20	1167	305	41	1290
Hay-loading machine	M. H. and L. Arnold, E. P. Mitchell, and R. Taliaferro.	371,729	Oct. 18	1414	366	41	296
Hay or hog rack	J. Braun	362,356	May 3	393	{ 108 109	{ 39	551
Hay or hog rack	C. Dennis and W. S. Clawson	368,707	Aug. 23	1977	525	40	853
Hay or straw elevator	J. M. Harris	373,526	Nov. 22	1909	506	41	853
Hay pitching and stacking machine	F. Donald	357,070	Feb. 1	463	123	38	508
Hay-press	J. Billings	358,375	Feb. 22	2349	624	38	883
Hay-press	W. H. Bryant	369,837	Sept. 13	730	195	40	1182
Hay-press	M. L. Cope	364,905	June 14	1012	265	39	1285
Hay-press	F. W. Flato	373,449	Nov. 22	1769	469	41	827
Hay-press	C. H. H. French	371,932	Oct. 25	1718	444	41	365
Hay-press	C. A. Hamilton	357,480	Feb. 8	1059	280	38	628
Hay-press	W. A. Laidlaw	359,081	Mar. 8	960	246	38	1087
Hay-press	C. D. McNeill	366,233	July 12	667	{ 180 181	{ 40	134
Hay-press	J. H. Williams	361,912	Apr. 26	2188	567	39	431
Hay-press. Self-feeding	F. T. Wilson	358,637	Mar. 1	322	77	38	963
Hay-rack	W. D. Miller	370,743	Sept. 27	2092	555	40	1449
Hay-rack	S. A. Stewart	364,869	June 14	962	253	39	1275
Hay-rake	J. H. Johnson	369,060	Aug. 30	2484	660	40	960
Hay-rake	F. E. Kohler	368,215	Aug. 16	1267	338	40	707
Hay-rake	J. M. Spencer	362,330	May 3	360	99	39	544
Hay rake and gatherer	J. Allen	372,783	Nov. 8	751	203	41	619
Hay-rake and gathering-machine	A. L. Courtwright	365,118	June 21	1337	354	39	1352
Hay rake and loader	W. and B. F. Bader	357,446	Feb. 8	1008	267	38	617
Hay rake and loader	W. L. Evans, Jr.	375,444	Dec. 27	1818	{ 475 476	{ 41	1424
Hay rake and loader	J. T. Hart	357,198	Feb. 8	679	175	38	556
Hay rake and loader	W. H. Lyon	365,082	June 21	1278	338	39	1342
Hay rake and loader. Combined	L. H. Dwelley	367,278	July 26	2101	567	40	421
Hay rake and loader. Combined	J. J. Hamilton	366,580	July 12	1134	304	40	226
Hay rake and stacker	B. Mason	366,016	July 5	372	100	40	70
Hay rake and tedder. Combined	I. L. Landis, A. and A. Iske	374,795	Dec. 13	893	234	41	1230
Hay rake and tedder. Combined	C. M. Maxson	364,123	May 31	2921	758	39	1055
Hay rake and tedder combined Sulky	W. R. Hallett	360,876	Apr. 12	685	{ 179 180	{ 39	134
Hay-rake. Horse	H. A. Alden and J. E. Kirk	355,674	Jan. 11	519	137	38	111
Hay-rake. Horse	J. G. Alexander	358,102	Feb. 22	1969	520	38	810
Hay-rake. Horse	D. Doan	358,735	Mar. 1	464	113	38	990
Hay-rake. Horse	P. F. Fleming	355,691	Jan. 11	542	142	38	115
Hay-rake. Horse	W. W. Kelchner, A. M. O'Daniel, and P. H. Pursel.	370,263	Sept. 20	1368	{ 367 368	{ 40	1307
Hay-rake. Horse	L. Kissner and J. J. Gromme	369,604	Sept. 6	403	{ 111 112	{ 40	1112
Hay-rake. Horse	W. Klinker	368,953	Aug. 30	2330	620	40	930
Hay-rake. Horse	C. La Dow	355,539	Jan. 4	317	84, 85	38	64
Hay-rake. Horse	P. P. Mast and G. W. Startzman	356,596	Jan. 25	1854	488	38	377
Hay-rake. Horse	H. Myers	360,039	Mar. 29	2431	618	38	1388
Hay-rake. Horse	H. Myers	363,413	May 24	1889	497	39	852
Hay-rake. Horse	W. P. Prall	361,645	Apr. 19	1794	464	39	352
Hay-rake. Horse	H. L. Shields	368,787	Aug. 23	2088	{ 553 554	{ 40	874
Hay rake, loader, and stacker	J. Jeffcoat	369,183	Aug. 30	2640	701	40	991
Hay-rake. Revolving	T. Miltenberger	365,014	June 14	1167	306	39	1312
Hay-rakes. Tooth or prong for horse	A. H. Michaelis	363,665	May 24	2265	587	39	924
Hay-rick cover	J. W. Hutchison	356,838	Feb. 1	130	35	38	447
Hay-ricker	J. Boland	366,617	July 12	1191	319	40	235
Hay-sling	P. F. Chambard	372,203	Oct. 25	2126	546	41	439
Hay-sling	J. M. Hart	360,689	Apr. 5	414	106	39	78
Hay-sling	J. Law	374,192	Dec. 6	39	10	41	1054
Hay-sling attachment	P. A. Myers	357,964	Feb. 15	1773	465	38	769
Hay-stack binder	D. F. Laughlin and C. F. Leslie	369,251	Aug. 30	2723	724	40	1008
Hay-stacker	D. B. Craig	365,332	June 21	1638	{ 427 428	{ 39	1409
Hay-stacker	D. D. Domas	369,324	Sept. 6	22	6	40	1039
Hay-stacker	S. B. Gilliland	372,138	Oct. 25	2036	521	41	421
Hay-stacker	C. W. Huntley	355,651	Jan. 4	483	129	38	95
Hay-stacker	J. W. Magill	358,937	Mar. 8	774	194	38	1051
Hay-stacker	E. F. Scholder	361,722	Apr. 26	1909	495	39	380
Hay stacker and loader	H. L. Dewing	361,814	Apr. 26	2039	530	39	403
Hay-stacking device	O. H. King	365,262	June 21	1540	402	39	1390
Hay-tedder	C. Gates	368,390	Aug. 16	1515	404	40	757
Hay-tedder	A. D. Lovett and E. S. Goff	367,007	July 19	1708	460	40	339
Hay-tedder	R. G. Utter	370,169	Sept. 20	1245	331	40	1284
Hay-tedder	R. G. Utter	372,344	Nov. 1	89	26	41	488
Hay-tedders. Crank for	F. E. Kohler	366,671	July 19	1271	339	40	257
Head-covering and making the same	C. T. Lee	372,543	Nov. 1	383	103	41	543
Head-gate. Self-adjusting	J. Stickle	367,459	Aug. 2	138	40	40	478
Head-light	W. Dutch	364,401	June 7	264	75	39	1139
Head-light. Automatically-adjustable locomotive	H. L. Pyle	356,787	Feb. 1	60	17	38	434
Head-light. Locomotive	W. Hufman	358,038	Feb. 22	1872	495	38	794
Head-rest	J. C. Bonnell and D. Gilson	357,305	Feb. 8	823	214	38	583
Head-rest	E. T. Brown	371,817	Oct. 18	1539	398	41	321
Head-rest	C. F. Cornelius	368,323	Aug. 16	1431	379	40	740

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Head-rest	T. Ferry	357,915	Feb. 15	1702	444	38	756
Head-rest	E. C. Hart	366,722	July 19	1343	359	40	271
Head-rest	G. M. Kazanjian	361,528	Apr. 19	1614	418	39	318
Head-rest	M. J. Koenig	373,142	Nov. 15	1297	345	41	728
Head-rest	E. W. Robinson	374,704	Dec. 13	764	200	41	1205
Head-rest	E. Wines	365,719	June 28	2228	580	39	1533
Head-rest	C. H. Yarrington	360,502	Apr. 5	152	38	39	29
Head-rest. Folding	W. C. Doubleday	366,080	July 5	449	121	40	85
Head-support or pillow. Ventilating	L. A. Schmidt	364,377	June 7	231	65	39	1132
Head-washing and shampooing. Device for	P. Norvotnick	367,157	July 26	1929	521	40	389
Header	C. M. and W. L. Slayback	358,630	Mar. 1	312	75	38	961
Header and thrasher. Combined steam traction	J. S. Berry	374,339	Dec. 6	241	64, 65	41	1092
Header and thrasher coupling. Combined	D. Best	369,498	Sept. 6	248	70	40	1081
Hearing. Instrument to assist	L. P. Townley and W. J. Washburn	364,975	June 14	1113	290	39	1303
Hearth furnace. Open	D. E. Park, H. Aiken, and H. W. Lash	365,936	July 5	257	68	40	50
Heat. Apparatus for applying the expansive power of	W. C. Shaffer	367,244	July 26	2054	554	40	413
Heat. Apparatus for generating	W. W. Dashiell	374,350	Dec. 6	258	69	41	1095
Heat. Apparatus for generating	W. W. Dashiell	374,351	Dec. 6	261	69	41	1096
Heat energy into electrical energy. Apparatus for converting	W. E. Case	374,173	Dec. 6	18	4	41	1050
Heat. Generating	T. H. Champion	362,935	May 17	1235	329	39	717
Heat. Generating	K. R. Kilbourn	361,164	Apr. 12	1123	284	39	213
Heat generator and radiator	W. T. Smith and G. A. Ely	369,131	Aug. 30	2577	685	40	978
Heat-indicator and distant alarm. Automatic	W. Gee	356,360	Jan. 18	1525	401	38	307
Heat-radiating furnace	J. J. H. Schlag	367,553	Aug. 2	286	81	40	505
Heat-regulating apparatus. Electric	W. A. Connelly	370,007	Sept. 13	1000	263	40	1230
Heat-regulator	M. W. Bailly	359,002	Mar. 8	864	219	38	1068
Heat-regulator	E. Zickwolff	365,220	June 21	1468	387	39	1379
Heat. Utilizing products of	T. T. Prosser	366,875	July 19	1544	414	40	308
Heater:							
<i>See</i> Air-heater. Oil-vapor heater.							
Barrel-heater. Portable heater.							
Car-heater. Sad-iron heater.							
Coal-screen heater. Self-feeding heater.							
Condensing duplex Siphon-pipe heater.							
heater. Soldering-iron heater.							
Electric heater. Steam-heater.							
Feed-water heater. Steam, air, or water							
Fire-place heater. heater.							
Flat-iron heater. Steam, hot-water, and							
Gas bath-heater. hot-air heater.							
Hot-air heater. Vehicle-heater.							
Hot-air and steam Ventilating-heater.							
heater. Water-heater.							
Lunch-heater.							
Heater	F., M. J., and H. B. Farquhar	366,944	July 19	1622	437	40	325
Heater	H. J. Frizelle	366,719	July 19	1337	358	40	270
Heater	D. F. McHenry	373,082	Nov. 15	1210	322	41	712
Heater	E. Medden	365,618	June 28	2078	542	39	1507
Heater	J. M. Thayer	361,380	Apr. 19	1424	368	39	281
Heater	E. S. Wilber	360,500	Apr. 5	150	37	39	29
Heater and feeder	O. Rothrock	368,170	Aug. 9	1199	320	40	687
Heater for cars and other purposes	J. M. Thayer	365,030	June 14	1193	315	39	1316
Heater for giant-powder and other explosives	T. and A. J. Rundle	373,609	Nov. 22	2024	538	41	874
Heater-register box	J. Detwiler	372,130	Oct. 25	2026	519	41	418
Heaters. Incasement for air	P. J. and W. J. O'Brien	358,065	Feb. 22	1923	507	38	803
Heating and cooling buildings. Electrical apparatus for	E. H. Johnson	360,223	Mar. 29	2733	692	38	1442
Heating and ventilating apparatus	R. A. Rew	357,411	Feb. 8	958	252	38	608
Heating and ventilating buildings	M. Rumbaugh	362,116	May 3	90	27, 28	39	491
Heating and ventilating houses	P. D. Pike	367,660	Aug. 2	450	124	40	537
Heating and ventilating prisons or other buildings	C. E. Felton	370,011	Sept. 13	1008	{ 265 266 267 }	40	1231
Heating apparatus	D. A. Arnold	370,444	Sept. 27	1637	436	40	1365
Heating apparatus	J. M. Babbitt and P. F. Wood	358,423	Mar. 1	1	1	38	903
Heating apparatus	G. A. Barnard	375,593	Dec. 27	2024	526	41	1463
Heating apparatus	G. H. Benjamm	369,425	Sept. 6	160	46, 47	40	1062
Heating apparatus	J. L. Brink	368,185	Aug. 16	1227	328	40	700
Heating apparatus	J. A. Irons	363,747	May 24	2385	619	39	947
Heating apparatus	J. Kohler	368,153	Aug. 9	1176	314	40	682
Heating apparatus	J. Lewis	372,032	Oct. 25	1870	483	41	391
Heating apparatus	G. H. Reynolds	366,877	July 19	1549	415	40	309
Heating apparatus	J. Shackleton	373,693	Nov. 22	2144	573	41	899
Heating apparatus	J. G. Smith	357,793	Feb. 15	1544	402	38	726
Heating apparatus	G. W. Trexler	369,304	Aug. 30	2805	748	40	1024
Heating apparatus	A. Walker	375,662	Dec. 27	2128	{ 552 553 }	41	1481
Heating apparatus. Air	W. D. Smith	374,094	Nov. 29	2718	729	41	1019
Heating apparatus. Boiler for	L. Huntoon	366,629	July 12	1205	322	40	238
Heating apparatus. Combined hot-air and steam	J. H. Waterman	371,010	Oct. 4	407	102	41	81
Heating apparatus. Electric regulator for	R. L. Guion	362,212	May 3	212	62	39	514
Heating apparatus. Electrical	A. H. Buckelew	369,432	Sept. 6	167	48	40	1063
Heating apparatus for buildings	E. N. Gates	359,561	Mar. 15	1661	{ 423 424 }	38	1224
Heating apparatus. Gas or vapor	A. Claypool	366,569	July 12	1118	300	40	223
Heating apparatus. Hot-water	L. Huntoon	369,287	Aug. 30	2775	740	40	1018
Heating apparatus. Water	G. W. Blake	372,249	Oct. 25	2195	563	41	453
Heating apparatus. Water	J. Love	364,181	May 31	3006	780	39	1071
Heating buildings. Apparatus for	I. J. Ordway	357,332	Feb. 8	850	221	38	588
Heating buildings. Apparatus for	I. W. Rushmore	361,784	Apr. 26	2001	520	39	396
Heating cars and vehicles	S. A. Darrach	372,605	Nov. 1	472	126	41	559

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Heating coils and systems of pipes. Attachment for.	W. M. Brown.....	372,298	Nov. 1	17	5	41	474
Heating dwelling-rooms, public buildings, &c. Apparatus for	E. S. Bassett.....	374,235	Dec. 6	91	23	41	1064
Heating-furnace.....	E. C. Condit.....	369,774	Sept. 13	630	170	40	1162
Heating-furnace.....	E. C. Condit.....	372,968	Nov. 8	1033	{ 276 } 277	{ 41 } 41	669
Heating-furnace.....	O. B. Fuller and W. M. Wyckoff.....	368,201	Aug. 16	1252	334	40	705
Heating-furnace.....	D. C. Howard and W. H. Burden.....	374,965	Dec. 20	1165	304	41	1290
Heating-furnace.....	J. A. Price.....	370,889	Oct. 4	215	55	41	42
Heating furnace. Air.....	J. Weik.....	357,513	Feb. 8	1101	290	38	636
Heating purposes. Hot-water-pipe arrangement for.	W. A. White.....	358,636	Mar. 1	321	77	38	963
Heating water and other liquids. Apparatus for.....	W. A. Goodyear and L. Ketchum.....	355,314	Jan. 4	30	8, 9	38	7
Heddle for cross-weaving.....	C. A. Littlefield.....	363,072	May 17	1427	378	39	754
Hedge.....	J. A. Mitchell.....	358,815	Mar. 1	581	144	38	1011
Hedge-trimmer.....	J. P. Hileman.....	355,396	Jan. 4	136	37	38	28
Hedge-trimming machine.....	R. Hildebrand.....	374,964	Dec. 20	1165	304	41	1290
Heel and shank supporter.....	T. H. Paris.....	372,561	Nov. 1	409	110	41	548
Heel and toe protector.....	G. H. Jones.....	357,772	Feb. 15	1523	396	38	722
Heel-burnishing machine.....	A. Andres.....	371,022	Oct. 4	423	{ 105 } 106	{ 41 } 41	84
Heel-burnishing machine.....	J. H. Connor, T. F. and S. G. Blessington.	366,930	July 19	1609	431	40	321
Heel-burnishing machine.....	A. B. Fowler.....	372,612	Nov. 1	481	{ 130 } 131	{ 41 } 41	560
Heel-die.....	C. Heron.....	362,380	May 3	431	120	39	558
Heel-forming machine.....	W. F. Hodge and N. H. Pratt.....	361,414	Apr. 19	1467	379	39	289
Heel-lifts. Cutting.....	G. James.....	361,065	Apr. 12	963	244	39	183
Heel-mold.....	A. L. F. Mitchell.....	374,368	Dec. 6	285	76	41	1100
Heel-nail.....	F. F. Raymond, 2d.....	356,549	Jan. 25	1789	466	38	364
Heel-nail and using the same.....	F. F. Raymond, 2d.....	356,550	Jan. 25	1790	466	38	364
Heel-nailing machine.....	J. F. McMullett.....	373,409	Nov. 15	1714	453	41	804
Heel-nailing machine.....	E. E. Orr.....	375,458	Dec. 27	1835	480	41	1428
Heel-nailing machine.....	F. F. Raymond, 2d.....	356,553	Jan. 25	1797	{ 470 } 471 472	{ 38 } 38	365
Heel-nailing machine.....	F. F. Raymond, 2d.....	356,554	Jan. 25	1804	{ 472 } 473	{ 38 } 38	366
Heel-nailing machine.....	F. F. Raymond, 2d.....	358,298	Feb. 22	2249	{ 593 } 594	{ 38 } 38	863
Heel-nailing machine.....	J. W. Soule.....	368,248	Aug. 16	1329	{ 350 } 351	{ 40 } 40	718
Heel or sole plate.....	C. J. Brosnan.....	372,451	Nov. 1	248	69	41	517
Heel or sole protector.....	R. H. Lewis.....	367,718	Aug. 2	559	153	40	556
Heel-plate.....	R. H. Lewis.....	371,510	Oct. 11	1096	285	41	223
Heel-plate.....	F. H. Richards.....	369,208	Aug. 30	2670	710	40	997
Heel plate or guard.....	W. E. Wrighton.....	368,120	Aug. 9	1128	300	40	673
Heel-plates. Machine for attaching.....	F. H. Richards.....	369,554	Sept. 6	329	91	40	1097
Heel-protector.....	E. Kempshall.....	372,807	Nov. 8	803	215	41	628
Heel-protector.....	G. C. Pettis.....	355,661	Jan. 4	496	132	38	97
Heel-protector.....	I. R. Sanford.....	361,326	Apr. 19	1346	346	39	267
Heel-protector.....	F. P. Arnold.....	356,056	Jan. 11	1084	284	38	218
Heel-rands. Forming.....	F. F. Raymond, 2d.....	357,735	Feb. 15	1456	381	38	710
Heel-stiffener machine.....	G. H. Fox and L. W. Lombard.....	373,821	Nov. 29	2329	624	41	942
Heel-stiffener machine.....	G. A. Knox.....	374,414	Dec. 6	343	89	41	1111
Heel-stiffener machine.....	E. Shaw.....	356,335	Jan. 18	1486	392	38	299
Heel-stiffeners. Machine for forming.....	E. Andrews.....	371,537	Oct. 18	1133	295	41	239
Heel-strips. Making.....	F. W. Coy.....	357,552	Feb. 8	1175	309	38	650
Heel-trimming machine.....	A. D. Elliott.....	374,892	Dec. 13	1033	270	41	1258
Heel-trimming machine.....	W. Manley.....	374,419	Dec. 6	350	91	41	1113
Heel-trimming machine.....	A. L. F. Mitchell.....	363,410	May 24	1883	{ 495 } 496	{ 39 } 39	851
Heel-trimming machine.....	C. H. Trask.....	357,740	Feb. 15	1467	384	38	712
Heel-trimming machine.....	C. H. Trask.....	357,741	Feb. 15	1469	385	38	712
Heel-trimming machine cutter.....	C. H. Trask.....	357,742	Feb. 15	1470	{ 385 } 386	{ 38 } 38	713
Heels. Attaching.....	F. F. Raymond, 2d.....	368,006	Aug. 9	983	264	40	646
Heels. Making rubber.....	F. D. Hayward.....	371,316	Oct. 11	826	211	41	170
Heels. Process of attaching.....	J. B. Gardner.....	360,580	Apr. 5	273	67	39	53
Heeling-machine.....	C. W. Glidden.....	374,894	Dec. 13	1035	{ 271 } 272	{ 41 } 41	1258
Hens from sitting. Device to prevent.....	M. H. Cram.....	365,672	June 28	2158	563	39	1521
Hide-stretcher.....	H. G. Landers.....	357,609	Feb. 15	1264	332	38	676
Hide-working machine.....	A. E. Whitney.....	367,257	July 26	2076	561	40	416
Hides. Apparatus for stretching.....	J. Young.....	374,228	Dec. 6	82	21	41	1063
Hides. Machine for breaking and softening raw.....	C. A. Schieren.....	363,546	May 24	2094	543	39	892
Hides. Machine for treating.....	W. Lichtenberg and J. Baloun.....	363,295	May 17	1728	452	39	813
Hides. Machine for unhairing.....	J. W. Vaughn.....	373,112	Nov. 15	1251	{ 332 } 333	{ 41 } 41	720
Hides or skins. Machine for stretching.....	P. A. Jesson. (Reissue).....	10,860	Aug. 23	2288	608	40	913
Hides. Treating raw.....	E. F. Grether and C. Mosher.....	361,999	Apr. 26	2324	.....	39	453
Hinge.....	C. Fisher and G. B. Burnet.....	374,954	Dec. 20	1152	301	41	1287
Hinge.....	P. Forg.....	373,352	Nov. 15	1623	428	41	787
Hinge.....	P. Forg.....	374,788	Dec. 13	884	232	41	1228
Hinge.....	G. Jackson.....	368,921	Aug. 23	2280	607	40	912
Hinge.....	D. King, Jr.....	369,113	Aug. 30	2558	680	40	973
Hinge.....	I. B. Kleinert.....	355,827	Jan. 11	741	193	38	152
Hinge.....	L. H. Lempert.....	369,346	Sept. 6	56	17	40	1045
Hinge.....	J. Long.....	373,837	Nov. 29	2350	631	41	946
Hinge.....	J. A. Ludlow.....	368,539	Aug. 16	1741	463	40	799
Hinge.....	J. H. Pierce.....	364,290	June 7	117	33	39	1112
Hinge.....	F. L. Scheidemann and F. W. Bender.....	373,611	Nov. 22	2026	539	41	875
Hinge.....	J. Strachan.....	375,394	Dec. 27	1749	459	41	1411
Hinge.....	W. H. Taylor.....	365,552	June 28	1980	516	39	1488
Hinge.....	W. H. Taylor.....	373,620	Nov. 22	2039	543	41	877

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Hinge.....	G. W. Warner.....	374,098	Nov. 29	2722	730	41	1019
Hinge.....	J. Wright.....	375,038	Dec. 20	1269	331	41	1308
Hinge.....	J. Wright.....	375,039	Dec. 20	1270	331	41	1308
Hinge. Clamp.....	N. S. Andrews and H. F. Burnap.....	366,143	July 5	534	144	40	101
Hinge. Concealed flush.....	A. M. Crawford.....	361,268	Apr. 19	1270	324	39	253
Hinge. Flask.....	P. D. Beckwith.....	368,317	Aug. 16	1424	{ 376 377 }	{ 40 38 }	738
Hinge for mirrors. Friction.....	J. F. Buzzell.....	359,555	Mar. 15	1649	421	38	1222
Hinge for step-ladders.....	A. Edmondson, J. B. Moorhouse, and T. A. Procter.....	357,188	Feb. 8	664	172	38	553
Hinge. Gate.....	C. R. Hale.....	366,772	July 19	1409	377	40	283
Hinge. Lock.....	E. C. Byam.....	366,151	July 5	543	146	40	102
Hinge. Lock.....	R. H. Dorn.....	361,681	Apr. 26	1856	481	39	371
Hinge. Lock.....	E. M. Newcomb.....	355,408	Jan. 4	155	40	38	31
Hinge. Lock.....	J. Wolf.....	365,160	June 21	1395	368	39	1363
Hinge-pin and other holes. Means for forming.....	W. J. Keep and J. Jamieson.....	366,113	July 5	489	132	40	92
Hinge. Spring.....	B. Colvin.....	361,989	Apr. 26	2304	{ 599 600 }	{ 39 38 }	450
Hinge. Spring.....	F. C. Dumas.....	371,308	Oct. 11	813	208	41	167
Hinge. Spring.....	J. Keene.....	361,701	Apr. 26	1878	487	39	375
Hinge. Telescopic bag-stay.....	C. Reinisch.....	371,708	Oct. 18	1385	357	41	290
Hinge. Trunk or box.....	F. W. Mix.....	362,305	May 3	324	89	39	537
Hinge. Watch-case.....	C. K. Giles.....	365,989	July 5	329	87	40	63
Hip-roll or angle-bead. Metallic.....	J. S. Thorn.....	370,167	Sept. 20	1244	331	40	1284
Hitching animals. Device for.....	W. Clarke.....	366,647	July 19	1237	331	40	252
Hitching device.....	J. H. Nichols.....	361,230	Apr. 12	1223	311	39	232
Hitching device.....	S. I. Silsby.....	371,102	Oct. 4	529	134	41	105
Hitching device.....	W. G. Thorpe.....	375,227	Dec. 20	1528	402	41	1360
Hitching device for harness.....	W. G. Mauk.....	355,544	Jan. 4	323	86	38	66
Hitching device. Horse.....	E. Davidson.....	356,305	Jan. 18	1444	379	38	291
Hitching device. Line.....	A. J. Brouillard.....	365,965	July 5	297	79	40	56
Hitching-post.....	E. F. Brown.....	355,809	Jan. 11	713	186	38	148
Hitching-post.....	C. S. Hurd.....	364,175	May 31	2998	778	39	1069
Hitching-post.....	E. A. Kinne.....	373,832	Nov. 29	2343	629	41	945
Hitching-post.....	A. A. Parker.....	370,158	Sept. 20	1225	326	40	1280
Hitching-post.....	A. A. Wheelock.....	366,052	July 5	417	113	40	79
Hitching-strap or other line-holding device.....	A. Hurd.....	358,397	Feb. 22	2382	633	38	889
Hobby-horse.....	J. A. Crandall.....	366,571	July 12	1120	300	40	223
Hobby-horse.....	J. A. Crandall and F. Snyder.....	362,941	May 17	1243	330	39	718
Hod.....	C. Carlson.....	375,120	Dec. 20	1390	361	41	1331
Hod. Brick.....	J. Powers.....	360,618	Apr. 5	329	81	39	63
Hod-elevator.....	H. A. Hall.....	374,791	Dec. 13	889	233	41	1229
Hod-elevator.....	P. C. Harlan.....	360,587	Apr. 5	286	70	39	55
Hoe.....	J. W. Calef.....	362,876	May 10	1146	308	39	693
Hoe-blade and fastening.....	W. S. Rabb.....	360,619	Apr. 5	320	81	39	63
Hoe for chopping cotton.....	I. A. Thomas.....	355,801	Jan. 11	706	184	38	146
Hoe. Planting.....	W. and I. H. Trabue.....	365,108	June 21	1319	349	39	1349
Hoe. Wheel.....	C. E. Nash.....	367,835	Aug. 9	728	196	40	598
Hoes and cultivator-teeth. Spring locking device for drill.....	J. and T. H. Noxon.....	363,757	May 24	2399	622	39	950
Hoes and cultivator-teeth. Spring locking device for drill.....	J. and T. H. Noxon.....	363,759	May 24	2401	623	39	951
Hoes. Making the eyes of.....	H. St. Lawrence.....	367,326	July 26	2175	{ 584 585 }	{ 40 38 }	435
Hoes. Method of and apparatus for making.....	G. B. Ely.....	357,766	Feb. 15	1513	394	38	720
Hoeing and raking machine.....	D. Lubin.....	357,841	Feb. 15	1607	{ 416 417 }	{ 38 38 }	739
Hoeing-machine.....	J. B. Hurd.....	373,022	Nov. 8	1118	297	41	684
Hog and hay rack.....	R. G. Ping and H. W. Hanna.....	366,979	July 19	1676	451	40	333
Hog-cholera remedy.....	G. H. Beckwith.....	361,741	Apr. 26	1933	.....	39	384
Hog-cholera remedy.....	G. W. Emigh.....	369,281	Aug. 30	2767	.....	40	1016
Hog-cholera remedy.....	T. A. Kasey.....	355,999	Jan. 11	1007	.....	38	204
Hog-cholera remedy.....	E. H. Roberts.....	360,363	Mar. 29	2936	.....	38	1479
Hog-cholera remedy.....	P. T. Walton.....	359,652	Mar. 22	1813	.....	38	1268
Hog-nose trimmer.....	W. B. Meader.....	368,846	Aug. 23	2175	576	40	891
Hog or hay rack.....	A. P. Weldon.....	368,362	Aug. 16	1483	{ 394 395 }	{ 40 38 }	750
Hog-ring.....	A. C. Decker.....	371,674	Oct. 18	1326	343	41	277
Hog-tendon cutter.....	S. Loffer.....	375,555	Dec. 27	1969	513	41	1453
Hog-trap.....	R. C. Hart.....	364,923	June 14	1038	271	39	1289
Hog-trough.....	C. J. and G. A. Stromgren.....	360,829	Apr. 5	611	160	39	115
Hog-trough.....	E. B. Wood.....	364,327	June 7	161	45	39	1119
Hoist. Inclined.....	W. F. Crane and G. H. Reynolds.....	368,325	Aug. 16	1432	380	40	740
Hoisting and carrying mechanism.....	F. Murgatroyd. (Reissue).....	10,833	May 3	577	{ 160 161 }	{ 39 38 }	586
Hoisting and conveying machine.....	A. E. Brown.....	369,913	Sept. 13	842	{ 223 224 }	{ 40 38 }	1203
Hoisting and conveying machine.....	A. E. Brown.....	370,311	Sept. 20	1432	384	40	1320
Hoisting and conveying machine.....	A. E. Brown.....	370,312	Sept. 20	1434	384	40	1320
Hoisting and conveying machine.....	W. Thornburgh.....	373,255	Nov. 15	1474	390	41	760
Hoisting and dropping apparatus.....	H. S. Gail.....	367,903	Aug. 9	827	222	40	617
Hoisting and lowering apparatus.....	A. Ilse.....	356,249	Jan. 18	1361	359	38	276
Hoisting and supporting device.....	R. F. De Grain.....	357,185	Feb. 8	659	170	38	552
Hoisting and transmitting freight, coal, ores, &c. } Mechanism for.....	F. Murgatroyd.....	355,884	Jan. 11	835	{ 218 219 219 }	{ 38 38 38 }	169
Hoisting apparatus.....	P. G. Backman.....	374,442	Dec. 6	386	{ 101 102 293 }	{ 41 38 40 }	1119
Hoisting apparatus.....	J. Monighan.....	370,078	Sept. 20	1106	{ 294 294 }	{ 40 38 }	1258
Hoisting apparatus.....	A. Ray.....	374,085	Nov. 29	2706	726	41	1016
Hoisting apparatus.....	A. G. Sanders.....	366,740	July 19	1366	366	40	275
Hoisting apparatus.....	J. W. Seigh. (Reissue).....	10,829	Apr. 19	1829	473	39	358
Hoisting apparatus.....	L. Severns.....	359,182	Mar. 8	1085	283	38	1111
Hoisting apparatus.....	J. G. Speidel.....	362,328	May 3	356	98	39	543

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Hoisting apparatus.....	J. G. Speidel.....	362,329	May 3	358	99	39	543
Hoisting apparatus.....	C. R. Traxler.....	363,097	May 17	1462	388	39	760
Hoisting apparatus. Dumping mechanism for.....	W. H. Ewing.....	371,568	Oct. 18	1176	306	41	247
Hoisting apparatus for mines.....	T. Poore.....	359,517	Mar. 15	1588	407	38	1211
Hoisting-bucket.....	A. E. Brown.....	368,453	Aug. 16	1620	433	40	777
Hoisting-bucket.....	M. Delory.....	369,842	Sept. 13	735	196	40	1183
Hoisting-bucket.....	L. G. Ladd.....	369,798	Sept. 13	662	180	40	1169
Hoisting-bucket.....	G. E. Newell.....	362,528	May 10	644	181	39	602
Hoisting-bucket.....	B. F. Wilson.....	363,105	May 17	1477	391	39	763
Hoisting-drums. Limit-stop for.....	T. W. Heermans.....	364,111	May 31	2900	752	39	1051
Hoisting-engines. Brake for.....	N. B. Cushing.....	372,013	Oct. 25	1827	474	41	385
Hoisting-jack.....	D. B. Scott.....	359,405	Mar. 15	1412	362	38	1178
Hoisting-machine.....	J. Boyd.....	366,299	July 12	748	203	40	149
Hoisting-machine.....	T. A. Byler.....	362,489	May 10	592	167	39	593
Hoisting-machine.....	P. Connolly.....	367,962	Aug. 9	918	247	40	634
Hoisting-machine.....	O. Crosby.....	356,526	Jan. 25	1757	457	38	358
Hoisting-machine.....	W. Hart.....	372,908	Nov. 8	943	255	41	653
Hoisting-machine.....	J. Laude.....	366,488	July 12	988	268 269 270	40	196
Hoisting-machine.....	W. R. Thatcher.....	365,107	June 21	1318	349	39	1349
Hoisting-machine.....	B. Watson.....	356,807	Feb. 1	90	25	38	440
Hoisting-machine.....	D. S. Waugh.....	359,910	Mar. 22	2216	557 558	38	1340
Hoisting-machine.....	D. S. White.....	367,567	Aug. 2	306	88, 89	40	510
Hoisting-machine brake.....	N. B. Cushing.....	375,343	Dec. 27	1684	443	41	1398
Hoisting-machine. Log.....	W. Calhoun.....	366,201	July 12	614	167	40	124
Hoisting-machines. Carriage for.....	A. E. Brown.....	368,065	Aug. 9	1057	282	40	660
Hoisting machinery.....	C. W. Hunt.....	361,418	Apr. 19	1474	381	39	290
Hoisting machinery.....	A. Ray.....	374,086	Nov. 29	2708	727	41	1017
Hoisting mechanism. Differential.....	G. F. Clemons.....	372,839	Nov. 8	847	225 226	41	635
Hoisting-tackle.....	J. Cronan.....	360,859	Apr. 12	656	173	39	130
Hoisting-sling.....	R. E. Walsh.....	355,361	Jan. 4	95	25	38	20
Hoistways. Door for.....	W. K. Crofford.....	373,053	Nov. 15	1168	313	41	704
Holdback.....	A. R. Eaton.....	363,814	May 31	2483	644	39	972
Holdback.....	A. Lane.....	363,473	May 24	1983	517	39	870
Holdback.....	W. Reed.....	372,236	Oct. 25	2177	559	41	449
Holdback.....	C. W. Teetzel.....	372,184	Oct. 25	2091	536	41	432
Holdback-iron for wagon-tongues.....	A. Smith.....	359,367	Mar. 15	1350	348	38	1166
Holdback. Vehicle.....	H. A. Hanson.....	367,518	Aug. 2	242	69	40	497
Holdback. Vehicle.....	C. A. Kiefer and F. C. Eby.....	357,086	Feb. 1	484	129	38	512
Holdback. Vehicle.....	P. C. Marsh.....	366,852	July 19	1519	407	40	303
Holdback. Vehicle.....	E. W. Trenholm.....	371,229	Oct. 11	702	180	41	147
Holder:							
See Bag-holder.	Garment or cuff holder.						
Bed-cover holder.	Gas-holder.						
Bedclothes-holder.	Grain-binder cord-holder.						
Belt-holder.	Harmonica-holder.						
Bicycle-holder.	Harrow-tooth holder.						
Bill-holder.	Hat-holder.						
Billiard-chalk holder.	Horseshoe-holder.						
Blacking-holder.	Hose-holder.						
Blotting-pad holder.	Knife-blade holder.						
Bolt-holder.	Label-holder.						
Book-holder.	Ladder-holder.						
Book, magazine, or paper holder.	Lantern-holder.						
Bottle-holder.	Lathe-tool holder.						
Brake-block holder.	Lead and crayon holder.						
Broom-holder.	Lead and rule holder.						
Broom or mop holder.	Leaf-holder.						
Brush or mop holder.	Memorandum-holder.						
Button-holder.	Monument or sign holder.						
Button and fastener holder.	Music-holder.						
Camera-plate holder.	Music and book holder.						
Can-holder.	Music or paper holder.						
Can or barrel holder.	Napkin-holder.						
Card-holder.	Necktie-holder.						
Card or label holder.	Newspaper-holder.						
Cartridge-holder.	Oil-can holder.						
Cartridge-shell holder.	Package-holder.						
Chalk-holder.	Paper-holder.						
Checkrein-holder.	Paper-bag holder.						
Christmas-tree holder.	Paper-bag and goods holder.						
Cigar-holder.	Paper-sack holder.						
Coat-holder.	Parcel-holder.						
Coin-holder.	Parcel or bundle holder.						
Collar or cuff holder.	Pen-holder.						
Cooking-utensil holder.	Pen and pencil holder.						
Copy-holder.	Pen or pencil holder.						
Copying-pad holder.	Pencil-holder.						
Cork-holder.	Pencil and crayon holder.						
Cuff-holder.	Photograph-holder.						
Curtain-holder.	Photographic-plate holder.						
Cuspidor-holder.	Picture-holder.						
Eraser-holder.	Picture-title holder.						
Eyeglass-holder.	Pie-holder.						
Fabric-holder.	Pillow-holder.						
File-holder.	Pillow-sham holder.						
	Pistol or mace holder.						
	Rein-holder.						
	Ribbon-holder.						

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Holder—Continued.							
See Rubber-band holder. Stringed-instrument holder.							
Rug-holder. holder.							
Sad-iron holder. Surgical-instrument holder.							
Sash-holder. holder.							
Scarf-holder. Tag-holder.							
Scarf or necktie holder. Telephone-holder.							
Scissors-holder. Thill-holder.							
Shade-holder. Thread-holder.							
Shade or globe holder. Ticket-holder.							
er. Tire-bolt holder.							
Shaft-holder. Tobacco-holder.							
Sleeve-holder. Tobacco-lath holder.							
Slip-holder. Tongue-holder.							
Soap-holder. Tool-holder.							
Spectacle-case holder. Tooth-holder.							
er. Towel or napkin holder.							
Spinning-ring holder. Trace-holder.							
er. Trousers-holder.							
Sponge-holder. Twine-holder.							
Spool-holder. Twine and bag holder.							
Spring-holder. Umbrella-holder.							
Square-holder. Vial-holder.							
Staff-holder. Vise-holder.							
Stereotype-plate holder. Weather-board holder.							
holder. Whetstone-holder.							
Holder for labels, checks, and the like	H. Thum	374,509	Dec. 6	483	126	41	1139
Holder for metal articles	H. D. Winton	361,248	Apr. 12	1242	{ 316 317 }	{ 39 39 }	236
Holder for poles and other articles	M. H. Vermilye	358,307	Feb. 22	2261	596	38	866
Hood, boa, and collar. Combined	M. Bermond	370,174	Sept. 20	1254	333	40	1286
Hoof-expander	C. H. Shepard	373,380	Nov. 15	1671	443	41	797
Hoof-pad	A. F. Hipp	362,215	May 3	216	64	39	515
Hoof-pad	W. Mulloy	372,635	Nov. 1	518	142	41	569
Hoof-pad	R. Shiers	356,294	Jan. 18	1428	376	38	288
Hoof-trimmer	W. Bradbrook	355,756	Jan. 11	637	166	38	134
Hoof-trimming machine	R. Parrish	363,256	May 17	1675	439	39	802
Hook:							
See Back-band hook. Lacing-hook.							
Bale-tie hook. Ladder-hook.							
Beit-hook. Lifting and pulling hook.							
Bracket-hook. Meat-hook.							
Brush-hook. Meat and bale hook.							
Button-hook. Picture-hook.							
Cant-hook. Pruning-hook.							
Check-hook. Pulley-block hook.							
Clothes-line hook. Rein-hook.							
Coat and hat hook. Releasing-hook.							
Coat or hat hook. Rope-hook.							
Coupling-hook. Snap-hook.							
Fish-hook. Suspender-hook.							
Fish and fly hook. Suspension-hook.							
Fishing-hook. Sweat-pad hook.							
Hat-hook. Telephone-hook.							
Hat and clothes hook. Wardrobe-hook.							
Hat and coat hook. Watch-chain hook.							
Hat-hanging hook. Whiffletree-hook.							
Hat or coat hook. Wire hook.							
Hook	R. W. Jones	361,524	Apr. 19	1610	417	39	317
Hook	C. Robin	373,096	Nov. 15	1227	328	41	716
Hook	E. G. Watson	366,542	July 12	1068	290	40	212
Hook and hanger. Combined	C. F. Bierman	366,369	July 12	846	227	40	167
Hook or hanger	R. Gorton	367,515	Aug. 2	237	68	40	497
Hook or hanger	R. Gorton. (Reissue)	10,888	Dec. 13	1087	284	41	1268
Hooks. Manufacture of	H. Hoffmann, Jr	371,502	Oct. 11	1085	282	41	220
Hoop:							
See Barrel-hoop. Wire hoop.							
Hoop-machine cutter-head	J. J. Hewit	362,625	May 10	796	218	39	628
Hoop-making machine	G. W. Packer	368,605	Aug. 23	1826	{ 485 486 487 488 489 }	{ 40 40 40 40 40 }	825
Hoop-planer knife	E. Windsor	355,580	Jan. 4	370	99	38	74
Hoop-sawing machine. Barrel	J. C. Ballew	372,446	Nov. 1	239	67	41	515
Hoops for barrels, &c. Machine for splicing wire	J. H. Bard	359,004	Mar. 8	866	220	38	1068
Hoops. Guide for machines for sawing	J. C. Ballew	361,979	Apr. 26	2292	596	39	448
Hop-trellis	W. Norris	355,410	Jan. 4	158	41	38	32
Hop-vine supports. Wire-holder for	O. M. Knox	356,139	Jan. 18	1218	323	38	249
Hops. Machine for picking and separating	F. Leonard	356,323	Jan. 18	1472	{ 387 388 }	{ 38 38 }	296
Hopper	W. R. Fee	356,581	Jan. 25	1838	482	38	373
Hopple	J. A. W. Burris	373,173	Nov. 15	1355	359	41	738
Hopple	E. W. Parrish	369,548	Sept. 6	319	88	40	1095
Horn-tip	N. E. Parks	365,856	July 5	140	37	40	28
Horn. Treating	M. Kamak	355,998	Jan. 11	1007		38	204
Horometer. Electrical	B. M. Hammond	373,975	Nov. 29	2544	684	41	983
Horse-blanket attachment	G. R. Ayres	373,764	Nov. 22	2236	598	41	917
Horse-block	E. F. Brown	361,983	Apr. 26	2297	598	39	449
Horse-block	P. B. Sheldon	356,896	Feb. 1	219	61	38	461
Horse-cover support	T. A. Long, S. P. Filley, and F. N. Ruggles.	373,779	Nov. 22	2262	607	41	921
Horse-detacher	S. Bail	372,287	Nov. 1	4	2	41	471

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Horse-detacher.....	J. A. Berg.....	359,763	Mar. 22	1986	583	38	1299
Horse-detacher.....	E. L. Brown.....	368,870	Aug. 23	2202	586	40	897
Horse-detacher.....	L. S. Brown.....	356,097	Jan. 18	1158	306	38	238
Horse-detacher.....	W. S. Downer.....	362,881	May 10	1150	309	39	694
Horse-detacher.....	J. M. Fiedler.....	372,902	Nov. 8	936	252	41	652
Horse-detacher.....	J. C. Fowler.....	372,528	Nov. 1	351	97	41	537
Horse-detacher.....	W. L. and P. M. Mitzel.....	360,717	Apr. 5	459	116	39	85
Horse-detacher.....	W. W. Phillips.....	360,324	Mar. 29	2374	731	38	1469
Horse-detacher.....	T. White.....	362,341	May 3	376	104	39	547
Horse-grooming device.....	J. O. Wells.....	372,731	Nov. 8	662	{ 181 182 }	{ 41 41 }	605
Horse-holding device.....	C. F. Shore.....	369,082	Aug. 30	2519	668	40	966
Horse-power.....	J. K. Griffin.....	365,436	June 28	1803	469	39	1452
Horse-power.....	G. Hadenfeldt.....	374,186	Dec. 6	32	8, 9	41	1053
Horse-power.....	F. Hohlfelder and V. F. Carpenter.....	369,449	Sept. 6	191	55	40	1068
Horse-power.....	I. A. Jefferson.....	355,936	Jan. 11	916	{ 238 239 }	{ 38 38 }	186
Horse-power.....	B. A. Lombard.....	357,212	Feb. 8	694	179	38	559
Horse-power.....	J. L. Record.....	368,970	Aug. 30	2355	625	40	935
Horse-power.....	M. O. Roberts.....	355,719	Jan. 11	586	153	38	125
Horse-power.....	J. A. Spencer.....	359,475	Mar. 15	1516	388	38	1198
Horse-power equalizer.....	J. W. Monarch.....	362,585	May 10	726	202	39	616
Horse-power for gin-houses.....	W. Deering.....	375,271	Dec. 20	1586	416	41	1371
Horse-power for stackers.....	A. H. Hoffmann.....	363,139	May 17	1520	402	39	772
Horse-powers. Lag-iron for.....	H. Moody.....	359,399	Mar. 15	1408	361	38	1177
Horse-rake.....	J. T. Crist.....	356,351	Jan. 18	1512	397	38	304
Horse-rake.....	J. Dunkin.....	359,534	Mar. 15	1612	413	38	1215
Horse-rake.....	J. T. Lewman.....	358,680	Mar. 1	388	93	38	976
Horses. Calking-boot for.....	J. B. Hoyt.....	370,788	Oct. 4	52	13	41	13
Horses. Detaching.....	G. T. Parker.....	366,978	July 19	1674	450	40	333
Horses. Device for controlling runaway.....	I. Grumbach.....	368,391	Aug. 16	1517	404	40	757
Horses from kicking. Device for preventing.....	J. W. Moose.....	369,294	Aug. 30	2787	743	40	1020
Horses. Head-protector for.....	S. S. Hepbron.....	367,520	Aug. 2	245	70	40	498
Horses. Leg-spreader for.....	C. W. Noyes.....	358,818	Mar. 1	585	145	38	1012
Horses. Quarter-boot for.....	G. P. Coolidge.....	367,271	July 26	2093	565	40	419
Horseshoe.....	J. D. Billings.....	374,924	Dec. 20	1095	286	41	1278
Horseshoe.....	J. E. Bingham.....	368,507	Aug. 16	1698	452	40	791
Horseshoe.....	J. E. and E. W. Bingham.....	372,112	Oct. 25	1990	511	41	413
Horseshoe.....	W. W. Box and F. J. Beadle.....	359,706	Mar. 22	1891	480	38	1283
Horseshoe.....	J. A. Dunning.....	363,996	May 31	2749	713	39	1021
Horseshoe.....	S. B. Jerome.....	371,327	Oct. 11	838	215	41	172
Horseshoe.....	J. Kress.....	361,635	Apr. 19	1780	461	39	350
Horseshoe.....	C. J. Le Roy.....	365,010	June 14	1163	305	39	1311
Horseshoe.....	F. S. Lepinte.....	357,014	Feb. 1	379	101	38	492
Horseshoe.....	R. H. Nelson.....	356,007	Jan. 11	1016	267	38	206
Horseshoe.....	M. W. Parkerson.....	365,403	June 28	1755	455	39	1444
Horseshoe.....	W. J. Phillips.....	373,904	Nov. 29	2447	657	41	964
Horseshoe.....	A. W. Robertson.....	371,789	Oct. 18	1499	386	41	313
Horseshoe.....	S. R. Smith and J. H. McArthur.....	359,104	Mar. 8	996	256	38	1094
Horseshoe.....	J. Spencer.....	355,727	Jan. 11	600	156	38	128
Horseshoe.....	A. L. Stevens.....	374,911	Dec. 13	1071	280	41	1264
Horseshoe.....	F. and S. A. Ward.....	363,925	May 31	2641	685	39	1000
Horseshoe.....	J. B. White.....	369,827	Sept. 13	707	190	40	1177
Horseshoe attachment device.....	J. Ott.....	373,091	Nov. 15	1222	326	41	715
Horseshoe-bar. Machine for rolling.....	H. J. Batchelder.....	358,426	Mar. 1	4	2	38	904
Horseshoe-bars. Manufacturing.....	W. Eynon and J. T. Davis.....	367,380	Aug. 2	32	8	40	457
Horseshoe-calk machine.....	M. R. Murray.....	370,745	Sept. 27	2094	555	40	1449
Horseshoe-calks. Die for making.....	P. F. Burke.....	370,763	Oct. 4	16	4	41	6
Horseshoe-calks. Die for making.....	P. F. Burke.....	370,764	Oct. 4	18	5	41	6
Horseshoe-calks. Machine for sharpening.....	N. Newman.....	364,280	June 7	107	31	39	1110
Horseshoe. Detachable.....	C. V. Geschke.....	363,225	May 17	1636	429	39	795
Horseshoe-holder.....	J. G. Schönthaler.....	371,634	Oct. 18	1265	328	41	265
Horseshoe-machine.....	H. J. Batchelder and T. S. Very.....	355,635	Jan. 4	459	123	38	91
Horseshoe-machine.....	J. A. Burden.....	373,125	Nov. 15	1271	{ 337 338 }	{ 41 41 }	724
Horseshoe-machine.....	J. Russell.....	368,620	Aug. 23	1848	494	40	829
Horseshoe-machine.....	T. S. Very.....	364,689	June 14	673	{ 179 180 181 }	{ 39 39 39 }	1223
Horseshoe-nail-finishing machine.....	W. W. Miner.....	373,996	Nov. 29	2573	{ 691 692 }	{ 41 41 }	989
Horseshoe-nail-finishing machine.....	E. E. Pierce.....	363,417	May 24	1894	{ 498 499 }	{ 39 39 }	853
Horseshoe-nail-finishing machine.....	J. P. Wennersten.....	358,904	Mar. 8	732	181	38	1043
Horseshoe-nail-finishing machine.....	H. E. Woodford.....	358,099	Feb. 22	1964	519	38	810
Horseshoe-nail-finishing machine.....	H. E. Woodford.....	374,227	Dec. 6	80	21	41	1062
Horseshoe-nails. Machine for forging.....	C. R. Ellacott.....	356,391	Jan. 18	1563	{ 411 412 }	{ 38 38 }	314
Horseshoe-nails. Machine for forging.....	J. A. Hutchinson.....	372,623	Nov. 1	497	{ 135 136 137 }	{ 41 41 41 }	564
Horseshoe-nails. Machine for forging.....	E. E. Pierce.....	363,418	May 24	1898	{ 499 500 501 }	{ 39 39 39 }	854
Horseshoe-nails. Manufacture of.....	C. H. Burekett.....	371,171	Oct. 11	624	{ 159 160 }	{ 41 41 }	131
Horseshoe-nails. Tool for clinching.....	J. W. Delano.....	365,974	July 5	308	81	40	58
Horseshoe-pad.....	G. Burhans.....	371,301	Oct. 11	803	205	41	165
Horseshoe. Sectional.....	E. W. Bingham.....	372,652	Nov. 8	548	150	41	583
Horseshoe. Sectional.....	E. W. Bingham.....	374,727	Dec. 13	796	209	41	1211
Horseshoe. Sectional.....	J. Curtin.....	374,293	Dec. 6	168	44	41	1079
Horseshoe. Soft-ground.....	L. Brigham.....	370,040	Sept. 20	1055	279	40	1249
Horseshoe. Temporary elastic.....	W. D. Shurtz.....	359,897	Mar. 22	2201	534	38	1337
Horseshoes. Die for forming sectional.....	J. B. Hague.....	364,244	June 7	61	18	39	1100
Horseshoes. Hoof-protector attachment for.....	W. Arning.....	362,479	May 10	581	163	39	591
Horseshoes. Machine for forming the heel-calks of.....	G. Uhlin.....	360,932	Apr. 12	763	199	39	148
Horseshoes. Machine for making.....	H. H. Burden.....	366,373	July 12	851	229	40	168

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Horseshoes. Packing-holder for.....	W. J. Follett	372,662	Nov. 8	561	153	41	586
Horseshoes. Pattern for ascertaining sizes and shapes of.....	J. E. Bingham	355,371	Jan. 4	105	29	38	22
Horseshoeing apparatus	J. Lindsey	369,724	Sept. 13	567	155	40	1152
Hose	G. Meacom	359,222	Mar. 8	1149	299	38	1122
Hose and pipe coupling	M. L. Babb	367,578	Aug. 2	325	93	40	513
Hose-carriage	H. J. Perry	362,534	May 10	651	{ 183 } 184	{ 39 } 39	604
Hose-cart	J. E. Gillespie	363,890	May 31	2585	671	39	990
Hose-cart	W. H. Severson	365,448	June 28	1821	474	39	1456
Hose-clamping device	T. G. Turner	371,231	Oct. 11	705	181	41	147
Hose-couplers. Electrical contact device for	W. F. Wamsley	364,559	June 7	506	136	39	1183
Hose-couplers. Electrical contact device for	W. F. Wamsley and T. McIntosh	364,558	June 7	504	{ 135 } 136	{ 39 } 39	1183
Hose-coupling	W. H. Albee and W. H. Pettys	362,697	May 10	899	244	39	648
Hose-coupling	R. F. Gerald	371,753	Oct. 18	1445	374	41	302
Hose-coupling	P. Gleich and H. S. Krause	373,825	Nov. 29	2335	626	41	943
Hose-coupling	T. F. Moss	360,779	Apr. 5	542	140	39	102
Hose-coupling	J. H. Sewall	363,553	May 24	2104	546	39	894
Hose-coupling	J. H. Sewall	375,572	Dec. 27	1993	519	41	1458
Hose-coupling	E. G. Watson	366,541	July 12	1067	290	40	212
Hose-coupling band	F. W. Tuerk, Jr.	366,532	July 12	1058	288	40	210
Hose-coupling. Electric	E. H. Crosby	368,654	Aug. 23	1890	504	40	837
Hose-couplings. Clamp for	G. Schrader and J. Schmitt	356,083	Jan. 11	1129	298	38	226
Hose-holder	J. H. Blood	375,472	Dec. 27	1855	485	41	1431
Hose, &c. Method of and means for increasing the power of streams of water from	C. H. Chamberlin	372,299	Nov. 1	18	6	41	474
Hose-nozzle	J. W. Gray	359,602	Mar. 22	1747	445	38	1256
Hose-nozzle	A. Hallowell	375,624	Dec. 27	2070	538	41	1470
Hose-nozzle	J. H. Parker	356,372	Jan. 18	1539	405	38	309
Hose-nozzle	W. Wilkins	370,836	Oct. 4	118	31	41	25
Hose or pipe coupling	R. E. Ismond	357,603	Feb. 15	1257	330	38	675
Hose or tubing	E. L. Wood	368,364	Aug. 16	1485	395	40	751
Hose-patch	W. H. Loomis	358,618	Mar. 1	301	72	38	959
Hose-reel	G. W. Hannis	356,313	Jan. 18	1454	382	38	293
Hose-reel	C. W. Kimball	372,473	Nov. 1	277	77	41	523
Hose-reel	C. D. Kubach	362,450	May 3	532	148	39	577
Hose-reel	J. Perkins	363,479	May 24	1990	520	39	872
Hose-reel	R. D. Wirt	358,953	Mar. 8	794	200	38	1056
Hose-reel	R. D. Wirt	366,909	July 19	1584	424	40	316
Hose-reel. Automatic	D. T. Boyle	357,900	Feb. 15	1683	438	38	753
Hose-reel. Automatic	S. F. Reynolds	357,154	Feb. 1	612	157	38	533
Hose storing and drying device	C. H. and C. A. Favel	360,006	Mar. 29	2377	601	38	1377
Hose-support	C. H. Favel	355,924	Jan. 11	892	233	38	181
Hose-supporter	E. J. Crandell	355,388	Jan. 4	127	34	38	27
Hose-supporter	S. H. Whiting	364,740	June 14	748	198	39	1237
Hose together. Apparatus for securing lengths of flexible	C. Darrah, Jr.	367,790	Aug. 9	670	181	40	586
Hosiery and other garments. Manufacturing	C. S. Pusey	361,079	Apr. 12	986	250	39	188
Hot-air and steam heater	C. D. Howard	362,838	May 10	1090	295	39	683
Hot-air and steam heater	J. F. Pease	362,779	May 10	1025	{ 278 } 279	{ 39 } 39	670
Hot-air and steam heater. Combined	W. H. Denslow	361,350	Apr. 19	1378	354	39	272
Hot-air engine	J. S. Baldwin and B. W. Bradford	355,633	Jan. 4	442	122	38	87
Hot-air engine	B. F. McKinley	356,146	Jan. 18	1228	326	38	250
Hot-air engine	B. F. McKinley	356,147	Jan. 18	1229	326	38	251
Hot-air furnace	F. E. Adam	371,020	Oct. 4	419	105	41	84
Hot-air furnace	N. A. Boynton	356,980	Feb. 1	332	89	38	484
Hot-air furnace	E. C. Condit	355,301	Jan. 4	14	4	38	5
Hot-air furnace	L. L. Culver	369,100	Aug. 30	2543	{ 674 } 675	{ 40 } 40	970
Hot-air furnace	A. L. Goodenow	356,392	Jan. 18	1567	{ 412 } 413	{ 38 } 38	314
Hot-air furnace	P. McCulpha	359,734	Mar. 22	1930	490	38	1290
Hot-air furnace	W. L. McDowell	362,297	May 3	314	87	39	534
Hot-air furnace	M. J. Mosher	370,807	Oct. 4	77	20	41	17
Hot-air furnace	L. J. Mueller	365,193	June 21	1437	379	39	1372
Hot-air furnace	A. B. Paine	358,621	Mar. 1	304	73	38	959
Hot-air furnace	A. C. Patton	370,649	Sept. 27	1948	{ 515 } 516	{ 40 } 40	1423
Hot-air furnace	D. S. Richardson	371,363	Oct. 11	885	227	41	181
Hot-air furnace	I. D. Smead	370,981	Oct. 4	369	91, 92	41	73
Hot-air furnace	G. Stephenson	369,480	Sept. 6	228	64	40	1077
Hot-air furnace	L. J. Treacy	371,108	Oct. 4	535	136	41	106
Hot-air furnace. Tubular	F. Shriver	361,841	Apr. 26	2083	542	39	411
Hot-air heater	W. H. Hains	357,769	Feb. 15	1520	{ 395 } 396	{ 38 } 38	721
Hot closet	G. E. Dixon	368,996	Aug. 30	2390	635	40	942
Hot-houses. Device for operating the ventilating-frames of	W. H. Diven	372,746	Nov. 8	682	{ 187 } 188	{ 41 } 41	608
Hot-water bags. Filling attachment for	K. Ryan	364,604	June 7	561	151	39	1193
Hot-water heater. Circulating	R. B. Owen and O. B. Fuller	363,165	May 17	1560	411	39	780
Hot-water system. Circulating	P. Smith and O. B. Fuller	358,228	Feb. 22	2153	567	38	845
Hotel-signal	H. B. Cox	375,442	Dec. 27	1815	{ 474 } 475	{ 41 } 41	1424
Hounds. Device for testing the speed of	J. A. A. Pinard	362,396	May 3	451	125	39	563
House: See Portable house.							
Houses. Warming and ventilating	E. S. Wicklin	369,828	Sept. 13	707	{ 190 } 191	{ 40 } 40	1177
Hub	J. R. Cravens	360,858	Apr. 12	656	172	39	129
Hub	J. W. Cronan	365,367	June 28	1690	440	39	1432
Hub-attaching device	A. F. C. Garben	367,511	Aug. 2	232	67	40	496
Hub-attaching device	A. F. C. Garbin. (Reissue)	10,874	Oct. 18	1683	435	41	348

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Hub-attaching device.....	C. A. Johnson.....	355,398	Jan. 4	138	37	38	29
Hub-attaching device.....	I. Johnson.....	357,321	Feb. 8	837	218	38	586
Hub-attaching device.....	J. Kent.....	359,262	Mar. 15	1202	314	38	1140
Hub-attaching device.....	A. Koeller and A. Mueller.....	371,077	Oct. 4	491	123	41	97
Hub-attaching device.....	J. Raddin.....	370,818	Oct. 4	87	24	41	19
Hub-attaching device.....	J. L. Thompson.....	372,392	Nov. 1	162	46	41	500
Hub-attaching device.....	A. Zink.....	368,562	Aug. 16	1774	471	40	806
Hub band. Vehicle.....	C. M. Green and C. Brewer.....	368,204	Aug. 16	1256	335	40	705
Hub-boring machine.....	F. B. Deming.....	374,945	Dec. 20	1136	{ 297 298 }	{ 41 41 }	1284
Hub. Vehicle.....	G. S. Elliott.....	363,376	May 24	1834	483	39	842
Hub. Vehicle.....	M. B. Mahurin.....	369,538	Sept. 6	307	85	40	1093
Hub. Vehicle.....	J. Maris.....	355,698	Jan. 11	551	145	38	117
Hub. Vehicle.....	B. Schad.....	370,285	Sept. 20	1399	375	40	1313
Hub. Vehicle.....	B. C. H. Simpson.....	368,358	Aug. 16	1476	393	40	749
Hub. Vehicle.....	J. M. Sweet.....	369,892	Sept. 13	814	216	40	1197
Hub. Vehicle-wheel.....	L. Conklin.....	362,493	May 10	597	169	39	594
Hub. Wheel.....	O. B. Bannister.....	362,701	May 10	904	246	39	649
Hub. Wheel.....	S. Egler.....	358,736	Mar. 1	465	113	38	990
Hub. Wheel.....	A. C. Hall and H. S. Bailey.....	362,506	May 10	616	174	39	597
Hub. Wheel.....	A. J. Morrison.....	358,687	Mar. 1	399	96	38	978
Hub. Wheel.....	J. M. Sweet.....	365,106	June 21	1317	{ 348 349 }	{ 39 39 }	1349
Hubs. Shell-band for.....	J. Maris.....	364,122	May 31	2920	757	39	1055
Hull and keel for steamships.....	A. H. Lucas.....	368,725	Aug. 23	2008	532	40	858
Hulling-machine.....	H. H. Thayer.....	361,733	Apr. 26	1922	499	39	382
Husking-pin.....	C. Arnold.....	357,948	Feb. 15	1746	456	38	764
Hydrant.....	P. N. Bardo and T. Ford.....	365,896	July 5	194	49	40	38
Hydrant.....	C. H. Baush.....	358,719	Mar. 1	446	108	38	987
Hydrant.....	J. C. Hupferle.....	364,180	May 31	3005	780	39	1070
Hydrant.....	D. T. Perkins.....	360,245	Mar. 29	2767	702	38	1449
Hydrant.....	P. B. Perkins.....	358,567	Mar. 1	233	54	38	947
Hydraulic and knuckle-joint press. Combined.....	A. Pitts.....	371,049	Oct. 4	459	115	41	90
Hydraulic elevator.....	J. Fensom.....	362,070	May 3	24	8	39	477
Hydraulic elevator.....	W. T. Fox.....	369,703	Sept. 13	540	149	40	1147
Hydraulic elevator.....	W. A. Gibson.....	367,098	July 26	1847	499	40	373
Hydraulic elevator.....	J. S. McDonald.....	374,901	Dec. 13	1050	275	41	1261
Hydraulic elevator.....	R. C. Smith.....	357,345	Feb. 8	866	228	38	591
Hydraulic-elevator valves. Operating mechanism for.....	N. C. Bassett.....	359,551	Mar. 15	1642	420	38	1221
Hydraulic engine.....	C. E. Foster.....	357,147	Feb. 1	601	154	38	531
Hydraulic engine.....	W. E. Hale.....	356,999	Feb. 1	357	95	38	488
Hydraulic engine.....	S. N. Knight.....	371,076	Oct. 4	489	122	41	97
Hydraulic engine.....	C. R. Whittier.....	373,259	Nov. 15	1479	391	41	761
Hydraulic jack.....	L. Belden.....	371,919	Oct. 25	1698	440	41	361
Hydraulic jack.....	R. H. Dudgeon. (Reissue).....	10,865	Sept. 13	1036	272	40	1237
Hydraulic jack.....	O. H. Mechem.....	369,992	Sept. 13	971	257	40	1226
Hydraulic lift.....	T. P. Ford, Jr.....	367,612	Aug. 2	371	104	40	522
Hydraulic marine motor.....	J. Elias.....	366,768	July 19	1403	376	40	282
Hydraulic motor.....	E. Hay.....	358,777	Mar. 1	520	127	38	1000
Hydraulic motor.....	P. Murray, Jr.....	357,732	Feb. 15	1451	380	38	709
Hydraulic motor for elevators and other purposes.....	C. G. Otis.....	355,658	Jan. 4	490	131	38	96
Hydraulic pipe.....	L. B. Battin.....	367,262	July 26	2082	.....	40	417
Hydraulic press.....	J. Bailey.....	366,367	July 12	843	{ 226 227 }	{ 40 40 }	167
Hydraulic press.....	H. Gruson.....	357,125	Feb. 1	568	{ 146 147 }	{ 38 38 }	526
Hydraulic switch and signal device.....	J. A. Zinn.....	374,768	Dec. 13	854	{ 224 225 }	{ 41 41 }	1223
Hydrocarbon-burner.....	H. D. Hughes and E. Shallow.....	364,931	June 14	1049	274	39	1291
Hydrocarbon-burner.....	J. F. Irons.....	370,337	Sept. 20	1468	394	40	1327
Hydrocarbon-burner.....	J. Marion.....	370,151	Sept. 20	1217	323	40	1278
Hydrocarbon-burner.....	J. Schweizer.....	368,171	Aug. 9	1201	321	40	687
Hydrocarbon fuel. Furnace for burning.....	J. H. Bullard.....	365,789	July 5	30	10, 11	40	8
Hydrocarbon fuel. Furnace for burning.....	J. H. Bullard.....	365,790	July 5	36	11	40	9
Hydrocarbon-furnace.....	O. D. Orvis.....	371,784	Oct. 18	1490	{ 384 385 }	{ 41 41 }	311
Hydrocarbon-furnace.....	L. B. White.....	373,955	Nov. 29	2513	676	41	977
Hydrocarbon-furnace.....	W. B. Wright.....	370,841	Oct. 4	134	35, 36	41	27
Hydrocarbon generator and burner.....	J. McHale.....	362,984	May 17	1306	346	39	729
Hydrocarbon. Process of and apparatus for refining.....	E. D. Kendall.....	359,357	Mar. 15	1338	346	38	1164
Hydrocarbon vapor and burning or storing it. De- vice for generating.....	L. B. White.....	371,114	Oct. 4	543	138	41	108
Hydrocarbons. Apparatus for vaporizing and burn- ing liquid.....	W. G. Bussey.....	360,558	Apr. 5	245	61	39	48
Hydrometer-alarm.....	T. P. Whittier.....	360,980	Apr. 12	840	215	39	161
Hydropneumatic engine.....	L. Kessler.....	369,952	Aug. 30	2328	619	40	929
Ice and slush melting attachment.....	J. N. Briggs.....	369,389	Sept. 6	111	33	40	1054
Ice. Apparatus for planing cakes of.....	J. N. Briggs.....	367,267	July 26	2087	564	40	418
Ice-breaking boat.....	W. R. Schooley.....	374,205	Dec. 6	53	13, 14	41	1057
Ice-chute.....	J. Hall.....	365,338	June 21	1649	{ 430 431 }	{ 39 39 }	1411
Ice-cream. Apparatus for forming and dividing bombs or shells made of.....	S. Julien.....	356,588	Jan. 25	1845	484	38	375
Ice-cream freezer.....	A. Hooper.....	368,150	Aug. 9	1173	313	40	682
Ice-creeper.....	J. A. Diehl and N. Weiss.....	360,666	Apr. 5	388	99	39	73
Ice-creeper.....	R. Heunsch.....	369,522	Sept. 6	284	79	40	1088
Ice-creeper.....	J. G. Skinner.....	362,188	May 3	180	54	39	508
Ice-creeper.....	J. G. Skinner.....	371,384	Oct. 11	923	237	41	187
Ice-creeper.....	A. T. Williams.....	375,110	Dec. 20	1376	358	41	1328
Ice-creeper and log-jumper.....	H. L. Page.....	366,977	July 19	1673	450	40	333
Ice-machine.....	D. Smith.....	356,382	Jan. 18	1549	{ 407 408 }	{ 38 38 }	312
Ice-machine condenser.....	H. B. Ford.....	363,455	May 24	1951	510	39	863
Ice. Machine for cutting.....	D. A. Haines.....	369,107	Aug. 30	2552	678	40	972

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Ice. Machinery for dressing or planing	H. Carsley	370,928	Oct. 4	285	70	41	57
Ice-machines. Compressor for	J. Schuehle	370,896	Oct. 4	227	58	41	44
Ice-machines. Gas-compressing pump for	T. L. Rankin	361,596	Apr. 19	1718	444	39	336
Ice-machines. Water-separating attachment for	T. H. Butler	371,173	Oct. 11	627	161	41	132
Ice making and blocking machine	G. F. Knox	363,248	May 17	1663	436	39	800
Ice-plows. Inserted tooth fastening for	H. Bodenstein	365,570	June 28	2011	524	39	1494
Ice-sandal	C. Maxwell	371,270	Oct. 11	761	195	41	157
Ice-sawing machine	G. Trahan	369,415	Sept. 6	143	41, 42	40	1059
Ice-skid	O. Spachmann	366,895	July 19	1572	421	40	314
Ice spur or creeper	L. R. Dey	368,330	Aug. 16	1440	382	40	742
Ice. Storing	G. T. McCormick	356,949	Feb. 1	282	78	38	473
Ice-tongs	A. S. Hollenback	371,066	Oct. 4	477	120	41	94
Ice-tongs	N. K. Wright	361,108	Apr. 12	1024	259	39	196
Implements. Art of making hollow-handle	W. W. Lee	370,795	Oct. 4	62	16	41	14
Implements. Making hollow-handled	W. W. Lee	363,401	May 24	1869	491	39	848
Impressed and printed surfaces. Apparatus for producing	T. G. and H. Daw	362,496	May 10	600	{ 170 171 }	{ 39 39 }	594
Incandescent lights on arc circuits. Governor for	C. D. Baker	371,915	Oct. 25	1692	{ 438 439 }	{ 41 41 }	360
Incandescents. Making	E. P. Thompson	366,353	July 12	826	222	40	163
Incrustation. Device for preventing	J. L. Donnelly	363,734	May 24	2367	615	39	944
Incrustation. Preventing	W. B. Moore	371,896	Oct. 18	1667	430	41	345
Incrustation preventive	T. Dooley	368,325	Sept. 6	23	—	40	1039
Incrustation preventive	S. W. Merryman	356,776	Feb. 1	44	—	38	432
Incubator	F. Biven	369,682	Sept. 13	515	143	40	1142
Incubator	J. L. Campbell	372,115	Oct. 25	1994	{ 511 512 }	{ 41 41 }	414
Incubator	C. B. Eddy	355,684	Jan. 11	534	140	38	114
Incubator	G. A. Muenchinger	366,599	July 12	1167	313	40	231
Incubator	A. E. Shackford	358,169	Feb. 22	2074	546	38	829
Incubator	G. H. Stahl	368,249	Aug. 16	1335	352	40	720
Incubator	C. E. Williams and J. F. Carr	364,073	May 31	2849	739	39	1042
Incubator-thermostat	C. L. Wells	363,307	May 17	1744	456	39	816
Incubators. Thermotic regulator for	A. Wiley	375,035	Dec. 20	1263	330	41	1307
Index	O. M. Dayton	364,338	June 7	176	49	39	1122
Index	C. S. Perley	370,280	Sept. 20	1386	372	40	1311
Indicator:							
See Alarm-indicator.	Ore-indicator.						
Automatic indicator.	Railway-indicator.						
Boat-indicator.	Railway-station indicator.						
Car-indicator.	Speed-indicator.						
Cash-indicator.	Station-indicator.						
Distance-indicator.	Station or street indicator.						
Dose-indicator.	Steam indicator.						
Draft-indicator.	Steam-engine indicator.						
Electric-current indicator.	Stock-indicator.						
Electrical indicator.	Temperature-indicator.						
Electrical-current indicator.	Time and longitude indicator.						
Heat-indicator.	Time-sounding indicator.						
Mail-indicator.	Tire-indicator.						
Mail-box indicator.	Tuyere-indicator.						
Musical transposition-indicator.	Water-level indicator.						
Navigator's position-indicator.	Weather-warning indicator.						
Indicator	Weighing-apparatus indicator.						
Indicator	I. Holden	355,531	Jan. 4	304	81, 82	38	61
Indicator	J. E. Mercadante	365,531	June 28	1950	507	39	1483
Indicator and advertising apparatus	M. M. Hooton	373,892	Nov. 29	2424	{ 651 652 }	{ 41 41 }	960
Indicator device	R. B. Ayres	358,183	Feb. 22	2100	554	38	834
Indicator-lock	F. A. Jillson	361,294	Apr. 19	1304	{ 334 335 }	{ 39 39 }	259
Induction apparatus. Electrical	M. H. Gross	361,587	Apr. 19	1705	440	39	333
Induction-coil	O. T. Bláthy	360,198	Mar. 29	2697	681	38	1436
Induction-coil	J. Ritchie	363,851	May 31	2536	659	39	982
Induction-coil	M. M. M. Slattery	358,415	Feb. 22	2404	639	38	893
Induction-coil	M. M. M. Slattery	358,793	Mar. 1	541	133	38	1005
Induction-coil	E. Smith	371,524	Oct. 11	1112	290	41	226
Induction-coil. Coin-operated	W. Oliver	372,168	Oct. 25	2069	{ 529 530 }	{ 41 41 }	428
Induction-coil. Coin-operated	W. R. Pope	374,495	Dec. 6	463	120	41	1134
Induction-coil. Coin-operated	P. G. Williams and A. W. Roovers	372,441	Nov. 1	232	65	41	514
Induction-coil regulator	M. M. M. Slattery	358,493	Mar. 1	104	25	38	923
Infusions. Apparatus for making	J. Hobbs	370,141	Sept. 20	1205	319	40	1276
Ingot-bars. Torsion apparatus for breaking	W. R. Hinsdale	365,473	June 28	1857	482	39	1463
Ingot. Compound	E. Wheeler	359,337	Mar. 15	1305	339	38	1159
Ingot for the manufacture of compound metallic tubes	T. S. Very	371,719	Oct. 18	1399	361	41	293
Ingot-manipulator	F. Heron	368,395	Aug. 16	1523	407	40	758
Ingot-mold	S. R. Wilson	371,907	Oct. 18	1679	433	41	347
Ingot-mold	H. Wright	367,571	Aug. 2	317	91	40	512
Ingot-mold. Compound	E. Wheeler	363,926	May 31	2642	685	39	1000
Ingot-molds. Feeder for	G. Nimmo	357,286	Feb. 8	790	205	38	577
Ingot-molds. Heated funnel for	W. R. Hinsdale	363,828	May 31	2502	650	39	975
Ingots. Apparatus for loading and unloading	F. Le Blond	360,028	Mar. 29	2415	{ 612 613 }	{ 38 38 }	1384
Ingots, bars, &c., from fluid metal. Mechanism for producing	F. H. Daniels	368,817	Aug. 23	2131	565	40	882
Ingots. Forming metal	E. Wheeler	368,176	Aug. 9	1206	322	40	688
Ingots in a sectional mold. Apparatus for forming steel	J. B. D. Boulton	365,902	July 5	203	52	40	39
Ingots. Manufacture of structural	E. Wheeler	370,436	Sept. 27	1622	432	40	1362
Inhaler	J. Berkey	368,991	Aug. 30	2383	633	40	940

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Inhaler.....	J. Byrnes.....	366,759	July 19	1393	372	40	280
Inhaler.....	J. W. Culbertson.....	361,748	Apr. 26	1946	506	39	386
Inhaler.....	T. M. Dunham and E. S. Burnham.....	361,402	Apr. 19	1452	375	39	285
Inhaler.....	A. R. Foote.....	355,309	Jan. 4	23	7	38	6
Inhaler.....	R. B. Heintzelman.....	363,067	May 17	1422	376	39	752
Inhaler.....	J. Hood and S. H. Reynolds.....	357,930	Feb. 15	1723	450	38	760
Inhaler.....	E. W. Meader.....	357,617	Feb. 15	1274	335	38	678
Inhaler.....	B. R. Peyton.....	371,213	Oct. 11	679	174	41	143
Inhaler.....	E. S. Werner and J. P. S. Gifford.....	369,849	Sept. 13	743	198	40	1184
Inhaler for anæsthetics.....	W. W. Harrington.....	374,831	Dec. 13	946	247	41	1241
Inhaling apparatus.....	H. A. B. Huguet.....	369,247	Aug. 30	2718	723	40	1007
Initial ring. Interchangeable.....	W. Meerbott.....	363,076	May 17	1434	379	39	755
Injector.....	F. Brunbauer.....	362,247	May 3	256	72	39	523
Injector.....	F. Brunbauer.....	369,097	Aug. 30	2537	673	40	969
Injector.....	J. Desmond.....	372,209	Oct. 25	2135	548	41	440
Injector.....	W. E. Dodge.....	364,495	June 7	411	111	39	1166
Injector.....	A. S. Eberman.....	361,148	Apr. 12	1100	279	39	209
Injector.....	A. S. Eberman.....	367,138	July 26	1899	514	40	383
Injector.....	H. Holden, R. G. Brooke, and T. H. White. (Reissue.)	10,811	Mar. 1	596	147 148	38	1014
Injector.....	W. McElroy and H. Connett.....	362,298	May 3	315	87	39	534
Injector.....	W. McShane.....	362,300	May 3	318	88	39	535
Injector.....	W. R. Park.....	370,405	Sept. 27	1577	422	40	1355
Injector.....	L. Schutte.....	363,004	May 17	1338	354	39	736
Injector.....	E. Ware.....	368,798	Aug. 23	2103	557	40	876
Injector. Automatic oil.....	P. Hubert.....	369,524	Sept. 6	291	80, 81	40	1089
Injector-burner.....	W. B. Wright.....	368,266	Aug. 16	1357	358	40	724
Injector-burner.....	W. B. Wright.....	371,158	Oct. 4	603	155	41	119
Injector for furnaces. Air.....	W. S. Hutchinson.....	373,139	Nov. 15	1293	344	41	728
Injector for hydrocarbon-furnaces.....	W. B. Wright.....	371,157	Oct. 4	602	155	41	119
Injector. Steam.....	J. Desmond.....	356,682	Jan. 25	1976	519	38	400
Ink. Composition for softening printers'.....	G. M. Stanchfield.....	369,969	Sept. 13	932	.....	40	1219
Ink. Indelible.....	C. P. Dimitry.....	370,383	Sept. 27	1548	.....	40	1349
Ink, &c. Receptacle for.....	R. Marshall.....	372,547	Nov. 1	388	105	41	544
Inkstand.....	F. H. Allen.....	358,244	Feb. 22	2174	573	38	849
Inkstand.....	S. Darling.....	366,206	July 12	621	170	40	126
Inkstand.....	S. Darling.....	367,136	July 26	1896	513	40	382
Inkstand.....	S. Darling.....	368,326	Aug. 16	1434	380	40	740
Inkstand.....	S. Darling.....	369,101	Aug. 30	2545	676	40	970
Inkstand.....	J. C. Gable.....	362,154	May 3	142	41	39	501
Inkstand.....	J. Hoey.....	371,320	Oct. 11	830	212	41	170
Inkstand.....	R. Lockwood.....	359,214	Mar. 8	1139	296	38	1120
Inkstand.....	H. G. Squires.....	368,431	Aug. 16	1582	422	40	770
Inkstand-cap.....	J. A. Stege.....	371,717	Oct. 18	1396	360	41	293
Inkstand or ink-container.....	P. D. Horton.....	368,587	Aug. 23	1806	481	40	821
Inlaid articles. Manufacturing.....	J. Baynes.....	372,355	Nov. 1	104	30	41	491
Inlaying.....	I. Chalifoux.....	356,523	Jan. 25	1754	457	38	357
Insect-trap.....	J. S. and S. B. Ezell.....	372,257	Oct. 25	2207	565	41	455
Insect-trap.....	J. W. Madden.....	364,359	June 7	208	57	39	1128
Insecticide.....	W. Cromwell.....	375,263	Dec. 20	1574	.....	41	1369
Insecticide.....	W. A. French.....	370,733	Sept. 27	2082	.....	40	1447
Insecticide.....	A. Fullwiler.....	373,396	Nov. 15	1690	.....	41	800
Insecticide.....	W. A. Garner.....	373,928	Nov. 29	2474	.....	41	970
Insecticide.....	I. Kaatz and R. Schulz.....	360,700	Apr. 5	438	.....	39	81
Insulated ball-joint.....	J. A. Bunnell.....	356,614	Jan. 25	1892	497	38	384
Insulated can.....	C. E. Clisbee.....	358,732	Mar. 1	461	112	38	989
Insulated electric conductors. Covering.....	J. Tatham.....	363,182	May 17	1578	416	39	785
Insulated electrical conductor.....	A. Kissel.....	375,295	Dec. 20	1612	423	41	1376
Insulated electrical conductors. Apparatus for covering.....	E. McKnight.....	372,550	Nov. 1	393	106	41	545
Insulated electrical conductors. Manufacture of.....	J. T. Jaques.....	369,793	Sept. 13	657	178	40	1168
Insulating and other purposes. Composition for.....	S. H. Gilson.....	362,076	May 3	33	10	39	479
Insulating and protecting electric cables.....	T. H. Dunham.....	360,567	Apr. 5	256	64	39	50
Insulating compound.....	J. Tatham.....	366,898	July 19	1575	.....	40	314
Insulating electric conductors.....	W. R. Patterson.....	356,207	Jan. 18	1302	344	38	264
Insulating electric wires, &c. Plastic composition for.....	W. W. Barnes.....	371,406	Oct. 11	953	.....	41	193
Insulating-joint.....	F. H. Soden and H. Goehst.....	372,940	Nov. 8	986	267	41	661
Insulating-joint or pipe-coupling.....	E. F. Gennert.....	373,452	Nov. 22	1773	470	41	828
Insulating material.....	C. M. Thompson.....	359,825	Mar. 22	2076	.....	38	1316
Insulating material. Composition of matter for.....	J. B. Williams. (Reissue).....	10,846	June 21	1680	.....	39	1418
Insulating telegraph-cables.....	W. R. Patterson.....	356,156	Jan. 18	1243	329	38	253
Insulating telegraph-cables.....	W. R. Patterson.....	369,259	Aug. 30	2735	729	40	1010
Insulating the terminals of sheathed electrical conductors.....	D. Brooks.....	362,872	May 10	1140	306	39	692
Insulating-tube for electric conductors.....	C. L. Clarke.....	358,592	Mar. 1	271	63	38	953
Insulating underground electric conductors.....	D. Brooks.....	356,981	Feb. 1	334	89	38	484
Insulator.....	E. C. Emery.....	375,276	Dec. 20	1592	417	41	1372
Insulator.....	E. T. Greenfield.....	369,447	Sept. 6	189	54	40	1068
Insulator.....	W. F. Locke.....	360,354	Mar. 29	1917	743	38	1477
Insulator.....	H. K. Ruger.....	367,164	July 26	1934	522	40	389
Insulator. Electric-wire-clamp.....	J. R. Fletcher.....	368,284	Aug. 16	1387	366	40	730
Insulator for supporting and holding electric wires.....	H. Pennie.....	359,812	Mar. 22	2059	521	38	1313
Insulator. Loop.....	H. Van Sands.....	362,682	May 10	877	239	39	643
Insulator-pins. Machine for turning.....	L. D. Frost.....	362,268	May 3	278	78	39	527
Interlocking apparatus. Electro-pneumatic.....	G. Westinghouse, Jr.....	358,519	Mar. 1	141	36 37 38	38	930
Interlocking bolt.....	T. J. Bush.....	361,985	Apr. 26	2299	598	39	449
Interlocking bolt.....	T. J. Bush.....	361,986	Apr. 26	2300	599	39	450
Intestines. Machine for cleaning.....	F. E. Davis and O. Aberle.....	360,001	Mar. 29	2366	597	38	1375
Intestines. Machine for cleaning.....	F. E. Davis and O. Aberle.....	363,370	May 24	1828	480 481	39	841
Invalid-chair.....	A. De Voe.....	360,764	Apr. 5	517	134	39	97

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Invalid-chair. Folding	M. A. Hendricks	364,412	June 7	287	79	39	1143
Iodine from bittern. Obtaining	F. C. Phillips	356,291	Jan. 18	1424	.....	38	288
Iridium and product of the same. Depositing	W. L. Dudley	362,257	May 3	267	.....	39	525
Iron:							
<i>See</i> Carriage-iron. Smoothing and fluting							
Carriage-top 'iron. iron.							
Chair-iron. Soldering-iron.							
Corner-iron. Staple-protecting iron.							
Curling-iron. Tuyere-iron.							
Holdback-iron. Wagon-body iron.							
Lewis-iron. Wagon wear-iron.							
Sad-iron. Whiffletree-iron.							
Iron and steel directly from cast-iron. Making malleable	J. F. Alexander	368,504	Aug. 16	1695	452	40	790
Iron and steel. Reheating	H. Roberts	374,558	Dec. 6	565	148	41	1155
Iron. Apparatus for the manufacture of galvanized.	W. B. Spear	362,906	May 10	1194	319	39	702
Iron beam and nail-holding device thereof	R. Gocht	359,721	Mar. 22	1913	485	38	1286
Iron beams. Fastening objects to	C. B. Axt	359,310	Mar. 15	1269	328	38	1152
Iron chair	A. O. Högberg	365,999	July 5	341	91	40	65
Iron. Furnace for refining	G. B. Wiestling	359,700	Mar. 22	1882	478	38	1281
Iron. Manufacture of	G. G. Mullins	370,401	Sept. 27	1573	.....	40	1354
Iron or steel direct from the ores. Apparatus for producing malleable	C. Husgafvel	369,525	Sept. 6	291	81	40	1089
Iron. Pile for skelp	W. G. Howell	359,508	Mar. 15	1567	402	38	1206
Iron. Reducing and melting magnetic oxide of	W. E. Norris	369,361	Sept. 6	77	24	40	1048
Iron. Purifying	J. Beasley	374,651	Dec. 13	689	.....	41	1190
Iron. Treating	J. Rigby	360,620	Apr. 5	331	81	39	63
Iron with tin or its alloys or other metals. Coating.	E. I. Braddock	371,248	Oct. 11	729	.....	41	151
Ironing and bosom board	I. W. Legg	374,930	Dec. 20	1192	.....	41	1294
Ironing and polishing machine	A. T. Hagen	366,092	July 5	464	126	40	87
Ironing apparatus	C. F. Norris	358,060	Feb. 22	1912	505	38	800
Ironing-board	J. G. Breckenridge	356,568	Jan. 25	1822	476	38	370
Ironing-board	H. B. Mavis	363,527	May 24	2065	536	39	887
Ironing-board	R. E. McCormick	366,856	July 19	1523	408	40	304
Ironing-board	G. E. Palmer	358,748	Mar. 1	483	117	38	993
Ironing-board	W. I. Slipper and G. W. Earhart	369,210	Aug. 30	2072	710	40	998
Ironing-board	G. R. Taxis and D. Nickel	370,991	Oct. 4	385	96	41	76
Ironing-board and clothes-rack	F. M. Baer	366,294	July 12	742	201	40	148
Ironing board and stand. Folding	G. M. Bennett	372,356	Nov. 1	106	31	41	491
Ironing, fluting, and plaiting structure. Combined.	Q. and M. Lutz	357,614	Feb. 15	1269	333	38	677
Ironing linen fabrics and other materials. Machine for	H. C. Chasles	372,453	Nov. 1	250	69	41	518
Ironing-machine	J. G. Crawford, E. F. Poland, and M. W. Robinson. }	359,135	Mar. 8	1030	{ 267 268 }	{ 38 }	1101
Ironing-machine	A. T. Hagen	370,137	Sept. 20	1201	{ 317 318 }	{ 40 }	1275
Ironing-machine	J. C. Poland	359,095	Mar. 8	978	250	38	1090
Ironing-machine	G. L. Shorey	356,604	Jan. 25	1867	491	38	379
Ironing-machine. Anti-friction hand	F. Corbett	356,240	Jan. 18	1350	356	38	274
Ironing-machine. Hand	F. Corbett	359,774	Mar. 22	2007	507	38	1302
Ironing or calendering linen or other fabrics. Machine for	T. Bradford	372,513	Nov. 1	331	91, 92	41	533
Ironing-stand and clothes-rack combined. Folding.	J. Renner	368,238	Aug. 16	1316	347	40	716
Ironing-table	F. P. Burcaw	364,800	June 14	862	226	39	1256
Ironing-table	L. D. Rose	364,547	June 7	492	132	39	1180
Ironing-table attachment	W. P. Dodson	364,580	June 7	533	143	39	1188
Ironing-table. Folding and self-supporting	A. A. White and C. R. King	368,264	Aug. 16	1354	357	40	724
Ironing-tablet	C. Zimmerling	373,168	Nov. 15	1343	356	41	735
Irrigating apparatus	G. Ligowsky	368,841	Aug. 23	2165	{ 573 574 575 }	{ 40 }	888
Irrigating purposes. Apparatus for	J. Thompson	375,021	Dec. 20	1243	325	41	1304
Jack:							
<i>See</i> Boot-jack. Pegging-jack.							
Boot or shoe jack. Pump-jack.							
Carriage or wagon Siding-jack.							
jack. Smoke-jack.							
Floor-jack. Stone-laying jack.							
Hoisting-jack. Track-jack.							
Hydraulic jack. Trousers-jack.							
Lasting-jack. Wagon-jack.							
Lifting-jack.							
Jacket. Non-conducting	W. H. McKinney	363,663	May 24	2262	587	39	924
Jail or prison	W. H. Brown	360,508	Apr. 5	163	41	39	32
Jar:							
<i>See</i> Battery-jar. Electric-battery jar.							
Butter-jar. Fruit-jar.							
Drill jar. Glass preserving-jar.							
Jar-clamp	H. H. Davidson	372,897	Nov. 8	931	251	41	651
Jar-closure	A. J. Havens	366,663	July 19	1257	336	40	255
Jar-closure	D. Rylands	363,769	May 24	2415	626	39	953
Jar-cover fastening	F. H. Palmer	373,248	Nov. 15	1467	387	41	758
Jar-fastener	R. Bloeser	370,676	Sept. 27	1987	528	40	1430
Jar-fastener	M. F. Dickey	360,515	Apr. 5	182	44	39	36
Jar-fastener	T. F. Gaynor	365,592	June 28	2046	534	39	1501
Jar-fastener	T. B. Howe	370,394	Sept. 27	1562	418	40	1352
Jar-sealing device	C. W. Faatz and V. A. Calkins	372,212	Oct. 25	2140	549	41	441
Jars. Closure for	J. Petit	361,369	Apr. 19	1411	364	39	278
Jars. Cover-fastening for fruit	W. Werts	356,565	Jan. 25	1819	476	38	369
Jean-rack	V. M. Mosey	362,392	May 3	446	124	39	562
Jet apparatus	H. D. R. Guntow	373,931	Nov. 29	2476	665	41	970
Jewel-case	S. Valfer and L. Weil	372,345	Nov. 1	90	26	41	488
Jewel or toilet-set box	F. W. Evans	371,182	Oct. 11	640	{ 163 164 }	{ 41 }	134

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Jewelers' rolls for enlarging rings.....	J. C. Rocheleau.....	361,084	Apr. 12	992	251	39	189
Jewels. Tool for setting pallet.....	S. T. J. Byam.....	360,416	Apr. 5	19	6, 7	39	6
Jewelry.....	B. J. Angell.....	375,526	Dec. 27	1922	504	41	1445
Jewelry.....	J. Bulova.....	361,610	Apr. 19	1738	449	39	340
Jewelry.....	J. Bulova.....	363,725	May 24	2357	611	39	942
Jewelry.....	C. W. Hartmann.....	367,976	Aug. 9	934	253	40	638
Jewelry.....	J. Lamont.....	367,414	Aug. 2	81	22	40	466
Jewelry. Back and front of articles of.....	D. F. Adams.....	358,342	Feb. 22	2172	573	38	848
Jewelry. Manufacture of shell.....	C. Moegling.....	369,649	Sept. 6	468	131	40	1124
Jewelry. Mounting for.....	G. W. Ryan.....	363,915	May 31	2618	680	39	996
Jewelry. Ornamenting.....	W. C. Edge.....	360,283	Mar. 29	2829	719	38	1460
Jewelry-pin.....	H. Fletcher.....	362,737	May 10	949	259	39	657
Jewelry-stock.....	S. O. Bigney.....	361,857	Apr. 26	2112	547	39	417
Jib-hank.....	T. O. Jameson.....	374,476	Dec. 6	435	113	41	1129
Joiner. Universal.....	T. Walker.....	362,338	May 3	370	{ 102 103 }	{ 39 }	546
Joint:							
See Ball-and-socket joint. Miter or bevel joint.							
Box-joint. Pipe-joint.							
Curtain-pole angle-joint. Rail-joint.							
Expansion-joint. Railway-joint.							
Fishing-rod joint. Railway-rail joint.							
Furniture-joint. Sheet-metal joint.							
Gas-main joint. Spectacle-joint.							
Handle-joint. Stove-pipe joint.							
Insulated ball-joint. Telegraphic-wire joint.							
Insulating-joint. Tripod-joint.							
Universal flexible joint.							
Joint for crossing parts of corrugated metal.....	H. C. Hodges.....	362,008	Apr. 26	2334	608	39	456
Jointing and trimming machine.....	E. K. Patten.....	357,622	Feb. 15	1280	336	38	678
Journal-bearing.....	H. Brown.....	363,204	May 17	1611	{ 422 423 }	{ 39 }	790
Journal-bearing.....	M. Randolph. (Reissue).....	10,794	Jan. 4	515	136	38	102
Journal-bearing.....	M. Randolph.....	356,332	Jan. 18	1482	391	38	298
Journal-bearing.....	W. S. Sharpneck.....	368,246	Aug. 16	1326	349	40	718
Journal-bearing.....	C. A. Streeter.....	357,737	Feb. 15	1458	381	38	710
Journal-bearing. Adjustable.....	T. W. Shepherd.....	360,117	Mar. 29	2574	653	38	1413
Journal-bearing. Anti-friction.....	M. Randolph.....	356,331	Jan. 18	1482	390	38	298
Journal-bearings. Composition of matter for.....	I. P. Wendell.....	368,634	Aug. 23	1868	.....	40	833
Journal-box.....	F. H. Crafts.....	370,729	Sept. 27	2075	550	40	1446
Journal-box.....	T. McGrath.....	360,237	Mar. 29	2757	699	38	1446
Journal-box.....	W. J. Perkins.....	365,199	June 21	1443	381	39	1373
Journal-box.....	W. S. Sharpneck.....	357,636	Feb. 15	1309	344	38	683
Journal-box.....	W. W. Smalley.....	366,981	July 19	1679	451	40	334
Journal-box.....	C. E. Torrance.....	373,866	Nov. 29	2388	642	41	953
Journal-box.....	W. W. Worswick.....	362,864	May 10	1127	303	39	689
Journal-box and lubricator.....	A. Eagle.....	365,246	June 21	1519	396	39	1386
Journal-box. Anti-friction.....	W. S. Sharpneck.....	373,756	Nov. 22	2225	596	41	915
Journal-box. Self-oiling.....	M. Garland.....	373,283	Nov. 15	1516	401	41	768
Journal-box thrust-bearing.....	G. M. Clark.....	356,099	Jan. 18	1161	307	38	238
Journal-boxes. Device for babbitting.....	J. H. Morrison.....	367,432	Aug. 2	102	27	40	470
Journal-lubricator.....	C. Hildebrand.....	375,291	Dec. 20	1607	422	41	1375
Journals. Manufacture of lubricating.....	C. Parmentier.....	361,318	Apr. 19	1338	344	39	265
Jug-cover.....	E. A. Brownfield.....	374,238	Dec. 6	95	24	41	1065
Jug-handle.....	C. H. Wooldridge and J. M. Hendron.....	371,018	Oct. 4	417	104	41	83
Jug-tilting device.....	N. S. Chandler.....	370,607	Sept. 27	1888	501	40	1411
Jump-gate.....	J. H. Harris and W. Pool.....	358,740	Mar. 1	469	{ 114 115 }	{ 38 }	991
Jute, ramie, &c., from the stalk. Machine for separating.....	A. Angell.....	358,827	Mar. 8	604	149	38	1021
Jute. Wheel or roller for slivering.....	H. P. Garland.....	356,312	Jan. 18	1453	381	38	293
Kegs and barrels. Apparatus for gluing.....	J. A. Weindel.....	360,746	Apr. 5	496	128	39	93
Kerf-spreader. Rotary.....	J. M. Foster and B. F. Kent.....	361,218	Apr. 12	1205	306	39	228
Key:							
See Cotter-key. Telegraph-key.							
Shaft-key. Watch-key.							
Spring-key.							
Key.....	G. B. Cowles.....	371,823	Oct. 18	1547	400	41	322
Key.....	F. A. Gurney.....	365,304	June 21	1598	416	39	1401
Key.....	O. Smith.....	360,738	Apr. 5	486	124	39	91
Key and key-seat cutter.....	M. Morton.....	373,680	Nov. 22	2121	{ 567 568 }	{ 41 }	895
Key-board player. Mechanical.....	J. Carpentier.....	371,422	Oct. 11	972	{ 252 253 254 }	{ 41 }	197
Key-fastener.....	J. Busfield.....	366,150	July 5	542	146	40	102
Key-fastener.....	W. H. Crane.....	355,593	Jan. 4	387	105	38	78
Key-fastener.....	S. H. Paulmier.....	369,468	Sept. 6	216	61	40	1074
Key-fastener.....	J. S. Randall.....	364,296	June 7	125	36	39	1113
Key-fastener.....	F. Reisner.....	361,183	Apr. 12	1148	289	39	218
Key for stringed instruments.....	H. W. White.....	358,764	Mar. 1	501	123	38	997
Key-hole guard.....	O. Stoddard.....	355,421	Jan. 4	169	44	38	34
Key-hole guard.....	A. J. Umlin.....	374,719	Dec. 13	785	206	41	1209
Key-hole guide and escutcheon. Combined.....	S. S. Patterson.....	364,850	June 14	933	247	39	1270
Key-operating device.....	D. A. Childs.....	358,649	Mar. 1	342	82	38	967
Key-ring.....	N. W. Crandall.....	368,135	Aug. 9	1151	305	40	678
Keys and key-blanks. Making.....	G. B. Cowles.....	371,824	Oct. 18	1548	400	41	323
Kiln:							
See Brick-kiln. Ore-roasting kiln.							
Brick-drying kiln. Pottery-kiln.							
Charcoal-kiln.							
Kiln-drying apparatus. Mechanical.....	A. Kreps.....	366,672	July 19	1272	339	40	258
Kiln for burning sewer-pipes.....	G. Howes.....	374,678	Dec. 13	726	191	41	1198
Kindergarten apparatus for teaching arithmetic.....	J. B. Badger.....	357,889	Feb. 15	1672	435	38	751

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Kinometer. Recording.....	A. M. Haynes.....	367,625	Aug. 2	390	110	40	526
Kitchen-bracket.....	F. Aldrich.....	373,002	Nov. 8	1085	{ 289 290 }	41	679
Kitchen-cabinet.....	O. Bates.....	362,704	May 10	907	247	39	649
Kitchen-cabinet.....	J. L. Bearden.....	361,667	Apr. 26	1837	476	39	368
Kitchen-cabinet.....	J. S. Beckwith.....	360,845	Apr. 12	635	{ 168 169 }	39	126
Kitchen-cabinet.....	W. C. Dollens.....	363,372	May 24	1830	481	39	841
Kitchen-cabinet.....	J. Huebl.....	362,160	May 3	151	44	39	502
Kitchen-cabinet.....	A. E. Irwin.....	355,533	Jan. 4	310	83	38	63
Kitchen-cabinet.....	F. G. Lane and C. S. Acheson.....	362,388	May 3	442	122	39	561
Kitchen-cabinet.....	J. T. Paget.....	355,553	Jan. 4	337	90	38	68
Kitchen-cabinet.....	J. S. Scott and F. Holmes.....	362,544	May 10	668	188	39	606
Kitchen-cabinet.....	J. G. Shahfer.....	375,204	Dec. 20	1500	393	41	1354
Kitchen-cabinet.....	E. A. Shreve.....	362,590	May 10	737	205	39	618
Kitchen-cabinet.....	B. C. Tabor.....	356,855	Feb. 1	158	42	38	452
Kitchen-cabinet.....	V. E. Wigginton.....	365,289	June 21	1579	410	39	1397
Kitchen-dresser.....	J. F. Roth.....	367,239	July 26	2047	552	40	412
Kitchen utensil.....	C. A. H. Smith.....	369,083	Aug. 30	2521	668	40	966
Kitchen utensil known as cooks' tongs.....	W. E. Melhorn.....	356,657	Jan. 25	1947	511	38	394
Kite.....	W. F. Fleharty.....	368,525	Aug. 16	1719	458	40	795
Knapsack.....	H. C. Merriam.....	362,302	May 3	320	88, 89	39	536
Knapsack-reservoir.....	G. B. Donavin.....	357,272	Feb. 8	776	202	38	574
Kneader. Dough.....	G. K. Knowlton.....	355,767	Jan. 11	649	170	38	136
Kneader for india-rubber, &c.....	R. Cowen.....	357,700	Feb. 15	1398	368	38	700
Kneading and mixing machine.....	E. Quack.....	375,384	Dec. 27	1738	456	41	1408
Kneading-machine.....	V. Stirewalt.....	358,758	Mar. 1	494	121	38	995
Knee pad and protector.....	A. G. Ridgill.....	363,170	May 17	1565	413	39	782
Knee-protector.....	S. Rauh.....	356,502	Jan. 25	1727	451	38	353
Knife:							
See Cheese-knife. Painter's hacking-knife.							
Corn-knife. Pocket-knife.							
Gage-knife. Putty-knife.							
Hay-knife. Roller-knife.							
Hoop-planer knife. Sole-channeling knife.							
Leather-cutting knife. Surgical knife.							
Mincing-knife. Table-knife.							
Knife.....	L. Quosbarth.....	372,565	Nov. 1	415	111	41	550
Knife.....	I. E. Schollars.....	365,541	June 28	1962	511	39	1485
Knife.....	A. Weck.....	358,312	Feb. 22	2266	598	38	867
Knife attachment. Skinning.....	D. J. Brougher.....	369,314	Sept. 6	14	4	40	1037
Knife-blade holder.....	W. E. White and E. H. Taylor.....	371,014	Oct. 4	412	103	41	82
Knife blades and bolsters. Manufacture of.....	G. Havell.....	373,527	Nov. 22	1911	507	41	853
Knife-cleaner.....	R. W. Jamieson.....	368,400	Aug. 16	1528	409	40	760
Knife-cleaning machine.....	T. S. Evans and F. R. Jackes.....	362,261	May 3	271	75, 76	39	526
Knife for cutting barrel-staves.....	W. E. Woodrow.....	372,998	Nov. 8	1079	288	41	678
Knife for cutting grain-bands.....	S. P. Warner.....	365,714	June 28	2219	578	39	1531
Knife for finishing water-proof fabrics.....	T. H. Videto.....	375,305	Dec. 20	1632	428	41	1380
Knife-handle.....	F. J. Kaldenberg.....	373,560	Nov. 22	1953	518	41	860
Knife polisher and cleaner.....	J. B. Riley.....	360,174	Mar. 29	2668	673	38	1430
Knife-sharpener.....	F. N. Russell.....	355,475	Jan. 4	239	63	38	48
Knives. Manufacture of table.....	H. C. Hart.....	360,879	Apr. 12	689	181	39	135
Knit fabric and knitting the same. Widened tubular.....	W. Esty.....	371,565	Oct. 18	1171	305	41	246
Knit fabric. Widened tubular.....	W. Esty.....	371,566	Oct. 18	1172	305	41	247
Knit garment.....	S. B. and F. F. Lewis.....	356,142	Jan. 18	1221	324	38	249
Knitted drawers. Lady's.....	J. Persch.....	369,549	Sept. 6	320	88	40	1095
Knitted fabric.....	L. Bywater.....	374,888	Dec. 13	1025	268	41	1255
Knitted fabric and method of making the same.....	T. H. Carroll.....	365,728	June 28	2242	{ 583 584 }	39	1536
Knitted garment.....	J. Holmes.....	360,094	Mar. 29	2525	642	38	1405
Knitted under-garment.....	J. Persch.....	374,494	Dec. 6	463	119	41	1134
Knitting-machine.....	D. C. Bellis.....	372,195	Oct. 25	2115	543	41	436
Knitting-machine.....	E. C. Covell and E. S. Cram.....	365,244	June 21	1515	395	39	1386
Knitting-machine.....	W. Esty.....	371,562	Oct. 18	1166	304	41	245
Knitting-machine.....	W. Esty.....	371,563	Oct. 18	1167	304	41	246
Knitting-machine.....	W. Esty.....	371,567	Oct. 18	1174	{ 305 406 }	41	247
Knitting-machine.....	W. H. Kelly.....	372,374	Nov. 1	135	41	41	496
Knitting-machine.....	I. W. Lamb.....	355,938	Jan. 11	919	{ 240 241 }	38	187
Knitting-machine.....	A. Reichert.....	358,881	Mar. 8	693	172	38	1036
Knitting-machine.....	W. Roberts.....	357,631	Feb. 15	1291	{ 339 340 341 342 }	38	681
Knitting-machine.....	W. Rothwell.....	362,664	May 10	850	233	39	638
Knitting-machine attachment.....	J. Auredenn.....	360,551	Apr. 5	235	58, 59	39	46
Knitting machine. Circular.....	J. Adams.....	362,411	May 3	475	{ 131 132 133 134 135 136 290 291 292 293 294 }	39	567
Knitting machine. Circular.....	J. Adams.....	364,201	May 31	3039	{ 292 293 294 }	39	1077
Knitting machine. Circular.....	J. Byfield.....	359,556	Mar. 15	1649	422	38	1222
Knitting machine. Circular.....	T. C. Chawner.....	357,816	Feb. 15	1571	409	38	732
Knitting machine. Circular.....	J. H. Cooper and W. J. Ford.....	364,806	June 14	868	{ 228 229 }	39	1258
Knitting machine. Circular.....	J. C. Egly.....	357,472	Feb. 8	1048	277	38	626

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Knitting machine. Circular.....	H. E. Harbaugh.....	372,535	Nov. 1	366	{ 99 100	{ 41	540
Knitting machine. Circular.....	H. W. Harley and J. Brenner.....	364,345	June 7	189	52	39	1124
Knitting machine. Circular.....	J. E. Helme.....	375,156	Dec. 20	1438	{ 376 377	{ 41	1341
Knitting machine. Circular.....	D. H. Hill.....	355,932	Jan. 11	913	238	38	185
Knitting machine. Circular.....	M. Marshall.....	374,196	Dec. 6	43	11	41	1055
Knitting machine. Circular.....	W. H. Mayo.....	363,528	May 24	2066	{ 536 537	{ 39	887
Knitting machine. Circular.....	J. H. Place.....	356,079	Jan. 11	1121	{ 296 297	{ 38	225
Knitting machine. Circular.....	J. H. Place.....	358,983	Mar. 8	837	{ 211 212	{ 38	1063
Knitting machine. Circular.....	J. B. Schroeder and M. J. Hinden..	360,735	Apr. 5	481	123	39	90
Knitting machine. Circular.....	R. W. Scott.....	368,429	Aug. 16	1578	{ 421 422	{ 40	769
Knitting machine. Circular.....	D. F. Sullivan and W. J. Graham...	358,900	Mar. 8	726	{ 179 180	{ 38	1042
Knitting machine. Circular.....	A. and I. Tompkins.....	360,931	Apr. 12	762	199	39	148
Knitting machine. Circular.....	J. W. Watts.....	366,747	July 19	1375	{ 368 369	{ 40	277
Knitting-machine needle.....	G. Malpass, Jr.....	363,153	May 17	1538	406	39	776
Knitting-machine needle.....	M. Townsend.....	367,767	Aug. 2	628	169	40	569
Knitting machine. Straight.....	R. Emerson.....	374,527	Dec. 6	510	{ 133 134	{ 41	1145
Knitting machine. Straight.....	R. Klinger.....	369,343	Sept. 6	50	14, 15	40	1044
Knitting machine. Straight.....	W. Roberts.....	357,632	Feb. 15	1303	{ 342 343	{ 38	682
Knitting machine. Straight.....	W. Rothwell.....	358,167	Feb. 22	2072	545	38	829
Knitting-machine take-up.....	H. W. Harley and J. Brenner.....	356,764	Feb. 1	30	10	38	429
Knitting-machine wheel.....	D. H. Hill.....	366,481	July 12	978	265	40	194
Knitting-machines. Burr-wheel for.....	R. W. Gormly.....	375,351	Dec. 27	1695	445	41	1400
Knitting-machines. Cam-cylinder for.....	L. F. Grammes.....	360,430	Apr. 5	50	12	39	11
Knitting-machines. Cam-cylinder for.....	J. B. Paxton.....	359,325	Mar. 15	1291	335	38	1156
Knitting machines. Cast-off-finger-operating cam } for circular.....	W. D. Huse.....	370,543	Sept. 27	1787	{ 476 477	{ 40	1392
Knitting-machines. Presser-wheel for.....	P. S. Kinsey.....	356,843	Feb. 1	141	38	38	449
Knitting-machines. Spring for sinkers of.....	E. Tiffany.....	374,280	Dec. 6	146	39	41	1075
Knitting machines. Stop-motion mechanism for cir- cular.....	G. Davidson.....	355,596	Jan. 4	391	106	38	78
Knitting machines. Stopping mechanism for circu- lar.....	R. B. Muirhead.....	364,726	June 14	730	194	39	1234
Knitting-machines. Yarn-carrier for.....	W. Esty.....	371,564	Oct. 18	1169	{ 304 305	{ 41	246
Knitting stockings.....	W. Esty.....	362,434	May 3	503	142	39	573
Knitting stockings.....	E. W. Gourd.....	372,309	Nov. 1	35	11, 12	41	478
Knitting stockings.....	J. H. Place.....	356,078	Jan. 11	1120	296	38	225
Knob.....	E. J. Blackham.....	369,907	Sept. 13	835	221	40	1201
Knob and shank. Door.....	J. C. Atwater.....	371,295	Oct. 11	795	203	41	163
Knob attachment.....	G. S. Herrick.....	363,743	May 24	2380	618	39	946
Knob attachment.....	W. D. Hughes.....	355,650	Jan. 4	482	128	38	94
Knob attachment.....	C. E. Steller.....	365,878	July 5	170	44	40	34
Knob attachment.....	H. J. P. Whipple.....	355,957	Jan. 11	954	249	38	193
Knob. Door.....	J. Bardsley.....	373,632	Nov. 22	2057	548	41	881
Knob. Door.....	W. A. Gay.....	366,950	July 19	1642	440	40	327
Knob-lock.....	Z. T. Furbish.....	355,311	Jan. 4	25	7	38	7
Knob or pendant.....	J. M. Riley.....	366,612	July 12	1183	317	40	233
Knob-spindles. Fastening for.....	J. J. Bennett.....	365,775	July 5	8	3	40	4
Knobs. Means for making door.....	G. Van Winkle.....	373,572	Nov. 22	1971	524	41	863
Knockdown box.....	M. A. Hamilton.....	373,828	Nov. 29	2338	{ 627 628	{ 41	944
Knockdown box.....	J. Hotham.....	371,322	Oct. 11	832	213	41	171
Knockdown box.....	H. P. Huston.....	363,143	May 17	1525	403	39	773
Knockdown box.....	W. W. Scott, C. E. Heise, and C. H. Blossom.....	356,854	Feb. 1	157	42	38	451
Knockdown table.....	B. S. Molyneux.....	355,618	Jan. 4	420	115	38	83
Krotophone.....	F. C. Watkins.....	369,377	Sept. 6	99	30	40	1052
Krotophone-receiver.....	F. C. Watkins.....	357,054	Feb. 1	439	117	38	503
Krotophone-receiver.....	F. C. Watkins.....	369,378	Sept. 6	100	30	40	1052
Label. Bottle.....	E. L. Moodie.....	365,146	June 21	1378	364	39	1360
Label-cabinet.....	U. D. Mihills.....	362,647	May 10	831	227	39	635
Label for packing-cases. Reversible.....	C. M. Benninghaus.....	362,926	May 17	1224	326	39	714
Label-holder.....	D. P. Brophy.....	358,644	Mar. 1	332	80	38	965
Label-holder.....	E. A. Cannon.....	374,395	Dec. 6	316	84	41	1106
Label-holder.....	T. B. Hodge.....	370,540	Sept. 27	1783	476	40	1391
Label-holder.....	J. E. Lathrop.....	359,265	Mar. 15	1205	314	38	1140
Label-holder.....	J. B. Mitchell.....	362,849	May 10	1107	300	39	686
Label-holder for pigeon-holes, &c.....	E. C. A. Woltmann.....	364,196	May 31	3030	788	39	1076
Label. Tamper-proof.....	E. H. Craige.....	362,820	May 10	1068	290	39	679
Labels. Method of and apparatus for dampening gummed.....	W. Leggott.....	367,643	Aug. 2	422	118	40	532
Labeling machine. Can.....	F. Hirsch.....	360,694	Apr. 5	421	{ 108 109 110	{ 39	79
Labeling machine. Can.....	A. J. Lockhart.....	359,932	Mar. 22	2251	567	38	1347
Lace clipping or cutting apparatus.....	H. Duden.....	372,661	Nov. 8	560	153	41	585
Lace-fastener.....	W. M. Brinkerhoff.....	363,276	May 17	1702	445	39	808
Lace fastener. Shoe.....	E. H. Alcott.....	369,151	Aug. 30	2599	690	40	983
Lace fastener. Shoe.....	C. G. Postill.....	364,294	June 7	123	35	39	1112
Lace fastener. Shoe.....	E. E. Warner.....	375,402	Dec. 27	1759	462	41	1412
Lace-fastening.....	T. T. Danforth.....	359,433	Mar. 15	1457	372	38	1187
Lace, &c. Foundation for embroidered.....	F. Juncker.....	358,156	Feb. 22	2055	540	38	825
Lace holders. Tool for setting shoe.....	C. A. Sullivan.....	363,433	May 24	1921	504	39	858

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lace, &c. Machine for clipping	C. H. Willcox and J. Range.....	361,563	Apr. 19	1659	{ 429 430 431 }	{ 39 }	326
Lace-making implement.....	L. H. Post.....	369,075	Aug. 30	2509	665	40	964
Lace-tipping machine. Shoe.....	H. Thurston.....	373,865	Nov. 29	2386	642	41	953
Lacing-bearing.....	E. R. Spencer.....	364,057	May 31	2828	733	39	1037
Lacing-cord fastener.....	E. M. Pope.....	368,421	Aug. 16	1565	418	40	767
Lacing-cord fastener.....	C. H. M. Wharton.....	365,659	June 28	2140	559	39	1518
Lacing hook or stud.....	H. A. Kingsland.....	365,822	July 5	86	24	40	18
Lacing-hooks. Machine for setting.....	W. Halkyard.....	364,014	May 31	2772	{ 718 719 }	{ 39 }	1026
Lacing-hooks. Machine for setting.....	J. H. Reed.....	373,307	Nov. 15	1554	411	41	774
Lacing-loop.....	A. H. Pratt.....	372,704	Nov. 8	620	169	41	597
Lacing. Shirt.....	I. Schnitzler and J. Deutsch.....	364,047	May 31	2817	731	39	1035
Ladder.....	W. and H. Cummer.....	355,683	Jan. 11	533	140	38	114
Ladder.....	W. R. Davis, Jr.....	367,792	Aug. 9	673	182	40	586
Ladder.....	J. G. Eddy.....	372,133	Oct. 25	2030	520	41	419
Ladder.....	W. Horsefield.....	373,981	Nov. 29	2553	686	41	985
Ladder.....	M. M. Hughes.....	364,173	May 31	2995	778	39	1069
Ladder.....	J. T. Luzmoor.....	375,079	Dec. 20	1327	346	41	1319
Ladder.....	J. S. Tilley.....	355,574	Jan. 4	363	97, 98	38	73
Ladder.....	L. R. Williams.....	358,523	Mar. 1	164	39	38	933
Ladder and adjustable bench. Combined step.....	M. H. Tyler.....	375,400	Dec. 27	1757	461	41	1412
Ladder and chair. Combined step.....	R. G. Dudley.....	371,128	Oct. 4	564	143	41	111
Ladder and ironing-board. Combined step.....	I. B. Mahon.....	373,464	Nov. 22	1795	{ 477 478 }	{ 41 }	832
Ladder and table. Step.....	L. Taeterow.....	357,048	Feb. 1	432	114	38	501
Ladder and truck. Fire extension.....	J. J. Hamilton and D. Bearly.....	359,603	Mar. 22	1748	445	38	1256
Ladder and truck. Folding extension.....	J. E. Gillespie.....	363,889	May 31	2581	671	39	990
Ladder apparatus. Fire.....	D. Barnes.....	356,088	Jan. 18	1142	{ 303 304 }	{ 38 }	235
Ladder, &c. Combined.....	I. E. Pearsall.....	358,218	Feb. 22	2141	564	38	843
Ladder. Extensible.....	J. E. Clator.....	362,609	May 10	765	211	39	622
Ladder. Extensible step.....	F. E. Kohler.....	357,676	Feb. 15	1366	360	38	693
Ladder. Extension.....	G. Albee.....	364,461	June 7	366	100	39	1157
Ladder. Extension.....	C. and R. H. Arnold.....	361,202	Apr. 12	1181	299	39	224
Ladder. Extension.....	P. W. Bailey.....	375,250	Dec. 20	1556	408	41	1365
Ladder. Extension.....	J. L. Crafts.....	361,137	Apr. 12	1073	271	39	204
Ladder. Extension.....	W. A. and A. F. Hawkes.....	371,453	Oct. 11	1013	264	41	206
Ladder. Extension.....	E. E. Sibley and C. Allen.....	374,561	Dec. 6	567	149	41	1156
Ladder. Extension.....	J. E. Smith.....	369,084	Aug. 30	2521	669	40	966
Ladder. Extension.....	C. A. Staples.....	368,737	Aug. 23	2024	536	40	862
Ladder. Extension fire.....	F. A. Warner.....	365,556	June 28	1986	{ 517 518 }	{ 39 }	1490
Ladder. Fire.....	L. Harris.....	363,066	May 17	1420	376	39	752
Ladder. Fire.....	H. T. Hayes.....	365,128	June 21	1353	358	39	1355
Ladder. Folding.....	W. S. Ethridge.....	375,482	Dec. 27	1868	488	41	1434
Ladder. Folding.....	J. Harris.....	363,634	May 24	2225	576	39	917
Ladder. Hay.....	W. W. Jacob and T. B. Patton.....	367,636	Aug. 2	410	113	40	529
Ladder-holder and scaffold-bracket. Combined.....	J. A. Dudley.....	356,457	Jan. 25	1662	435	38	340
Ladder-hook.....	D. Eaton.....	356,353	Jan. 18	1514	398	38	305
Ladder. Ornamental step.....	A. Dormitzer.....	361,212	Apr. 12	1193	303	39	226
Ladder-rails. Machine for dressing and forming.....	J. H. McCully.....	361,436	Apr. 19	1499	{ 386 387 }	{ 39 }	295
Ladder. Railway.....	E. A. Perkins.....	356,375	Jan. 18	1542	406	38	310
Ladder. Rope.....	H. French.....	366,825	July 19	1480	395	40	295
Ladder. Sectional.....	I. L. Hyde and C. H. Jones.....	374,154	Nov. 29	2796	751	41	1032
Ladder. Sectional.....	E. D. Norton.....	359,685	Mar. 22	1855	472	38	1276
Ladder-spike.....	E. S. Bacon.....	375,249	Dec. 20	1555	408	41	1365
Ladder. Step.....	W. R. Allan.....	369,491	Sept. 6	240	68	40	1079
Ladder. Step.....	C. S. Comins.....	372,967	Nov. 8	1032	276	41	669
Ladder. Step.....	W. Dilts.....	359,716	Mar. 22	1905	483	38	1285
Ladder. Step.....	G. M. Edgar.....	368,199	Aug. 16	1250	333	40	704
Ladder. Step.....	W. F. Gordon.....	357,706	Feb. 15	1407	370	38	702
Ladder. Step.....	M. C. McCollum, W. B. Milnes, and A. Hartman.....	372,424	Nov. 1	208	58, 59	41	509
Ladder. Step.....	H. C. Russell.....	357,233	Feb. 8	722	{ 186 187 }	{ 38 }	563
Ladder. Step.....	S. S. Staring.....	359,186	Mar. 8	1089	284	38	1112
Ladder. Telescopic.....	F. W. Hofele.....	360,806	Apr. 5	577	{ 150 151 }	{ 39 }	109
Ladle. Converting.....	W. R. Hinsdale.....	364,589	June 7	543	146	39	1190
Ladle for molten metal.....	C. J. Donovan.....	361,352	Apr. 19	1380	355	39	272
Ladle or dipper handle.....	L. K. Hurford.....	370,395	Sept. 27	1563	419	40	1352
Ladle. Scoop.....	H. Wettstein.....	359,653	Mar. 22	1813	461	38	1268
Ladles. Apparatus for tilting.....	J. Morgan, Jr.....	366,340	July 12	809	218	40	160
Lambrequin, curtain, and shade support. Adjustable.....	J. A. Hatcher.....	361,513	Apr. 19	1597	414	39	314
Lambrequin-pin.....	J. Berbecker.....	360,555	Apr. 5	240	60	39	47
Lamp.....	W. C. Baird.....	355,908	Jan. 11	874	229	38	177
Lamp.....	G. M. Clark.....	359,845	Mar. 22	2121	534	38	1323
Lamp.....	W. Darr.....	365,582	June 28	2032	530	39	1498
Lamp.....	J. H. Forbes.....	362,828	May 10	1079	292	39	681
Lamp.....	G. P. Ganster.....	366,213	July 12	635	173	40	128
Lamp.....	T. H. Haynor.....	366,954	July 19	1646	.....	40	328
Lamp.....	L. Henkle.....	365,996	July 5	336	89	40	64
Lamp.....	T. Langston.....	360,704	Apr. 5	441	113	39	82
Lamp.....	F. A. Lavercombe.....	356,480	Jan. 25	1699	444	38	347
Lamp.....	B. J. M. Menge.....	373,083	Nov. 15	1211	{ 323 324 }	{ 41 }	712
Lamp.....	N. Pouchkareff.....	374,700	Dec. 13	757	{ 198 199 }	{ 41 }	1204
Lamp.....	E. B. Requa.....	362,536	May 10	653	184	39	604
Lamp.....	E. B. Requa.....	362,918	May 10	1207	323	39	705

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Lamp	F. Rhind	356,962	Feb. 1	302	84	38	478
Lamp	F. Rhind	357,412	Feb. 8	960	253	38	609
Lamp	F. Rhind	361,545	Apr. 19	1637	425	39	322
Lamp	A. Stewart	358,230	Feb. 22	2155	568	38	845
Lamp	A. S. Yáñez	368,800	Aug. 23	2107	558	40	877
Lamp and reflector. Combined	H. N. Conn	361,135	Apr. 12	1071	271	39	204
Lamp and signal post. Combined	J. E. Smith	361,901	Apr. 26	2173	563	39	428
Lamp and socket. Electric	C. G. Perkins	360,244	Mar. 29	2765	702	38	1449
Lamp and wick therefor	A. S. Yáñez	368,698	Aug. 23	1967	521	40	851
Lamp. Arc	D. J. Hauss	369,640	Sept. 6	456	128	40	1121
Lamp. Arc	V. Klán and F. Spurný	357,774	Feb. 15	1524	397	38	722
Lamp. Argand	W. B. Vansant	367,770	Aug. 2	632	169	40	570
Lamp attachment	J. W. Bulger	365,164	June 21	1401	370	39	1364
Lamp attachment	W. G. Croom	371,124	Oct. 4	558	142	41	111
Lamp attachment	R. B. Magruder	363,658	May 24	2254	584	39	923
Lamp-bracket	S. W. Macomber	362,098	May 3	63	19	39	485
Lamp-bracket	E. T. Naylor	366,863	July 19	1531	410	40	305
Lamp bulbs. Drying incandescent-electric	A. L. Reinmann	355,714	Jan. 11	577	151	38	123
Lamp-burner	L. J. Atwood	360,984	Apr. 12	844	216	39	162
Lamp-burner	L. J. Atwood and W. F. Lewis	370,516	Sept. 27	1748	465	40	1385
Lamp-burner	F. R. Baker	359,122	Mar. 8	1016	262	38	1098
Lamp-burner	W. N. Daniels	372,745	Nov. 8	681	186	41	608
Lamp-burner	W. F. Folner	365,739	June 28	2264	589	39	1540
Lamp-burner	H. Gillette	373,065	Nov. 15	1186	316	41	707
Lamp-burner	E. H. Hickok	357,599	Feb. 15	1251	329	38	674
Lamp-burner	E. H. Hickok	365,745	June 28	2271	591	39	1542
Lamp-burner	F. D. Kimber	367,817	Aug. 9	703	190	40	592
Lamp-burner	S. W. Lambertson	371,894	Oct. 18	1665	429	41	345
Lamp-burner	T. Lebeau	362,752	May 10	989	268	39	664
Lamp-burner	E. B. Requa	373,195	Nov. 15	1386	367	41	743
Lamp-burner. Argand	A. Rolland and E. L. Conineck	366,509	July 12	1026	279	40	203
Lamp-burner	J. S. Russell	358,127	Feb. 22	2017	530	38	818
Lamp-burner	H. E. Shaffer	358,892	Mar. 8	713	176	38	1040
Lamp-burner	S. G. Stoddard	356,968	Feb. 1	315	85	38	481
Lamp-burner support	J. F. White	364,789	June 14	847	222	39	1253
Lamp-burners. Chimney-holder for	G. E. Oliver	366,867	July 19	1534	412	40	306
Lamp. Car	J. Kirby, Jr	367,109	July 26	1859	502	40	375
Lamp. Carbureting	A. Kitson	370,340	Sept. 20	1473	395	40	1328
Lamp. Carbureting	A. Kitson	370,341	Sept. 20	1474	395	40	1328
Lamp. Carbureting	N. A. Ransom	360,915	Apr. 12	739	194	39	144
Lamp. Carriage	T. Parish	372,325	Nov. 1	60	18	41	483
Lamp-carrier	D. H. Faust	362,069	May 3	23	7	39	477
Lamp. Central-draft	F. Rhind	364,438	June 7	325	89	39	1150
Lamp. Central-draft glass	G. S. Schuchman	361,723	Apr. 26	1910	{ 495 496 }	{ 39 39 }	380
Lamp-chimney	F. W. Rosenow	363,544	May 24	2093	542	39	891
Lamp-chimneys. Heating attachment for	L. A. Beatty	362,705	May 10	908	247	39	650
Lamp-chimneys. Rack for displaying	B. O. Smith	371,986	Oct. 25	1788	464	41	379
Lamp-chimneys. Tempering	M. Schreiber	363,087	May 17	1449	.....	39	758
Lamp. Cycle	H. Serrell	373,911	Nov. 29	2453	659	41	966
Lamp. Double-reservoir	C. H. Denison	359,502	Mar. 15	1559	398	38	1205
Lamp. Electric	C. A. Homans	367,002	July 19	1701	{ 457 458 }	{ 40 40 }	338
Lamp. Electric	O. P. Loomis	369,349	Sept. 6	62	18	40	1045
Lamp. Electric	C. M. Noble	362,852	May 10	1110	300	39	687
Lamp. Electric	C. Seel	359,328	Mar. 15	1295	336	38	1156
Lamp. Electric	J. J. Skinner	370,423	Sept. 27	1600	428	40	1359
Lamp. Electric	J. J. Skinner	370,424	Sept. 27	1604	428	40	1359
Lamp. Electric-arc	C. F. Cooke	360,662	Apr. 5	384	97, 98	39	72
Lamp. Electric-arc	W. A. Crowdus and H. M. Sutton	358,145	Feb. 22	2038	536	38	822
Lamp. Electric-arc	W. A. Crowdus and H. M. Sutton	360,377	Mar. 29	2955	750	38	1482
Lamp. Electric-arc	J. F. Denison	363,611	May 24	2187	{ 566 567 568 }	{ 39 39 39 }	910
Lamp. Electric-arc	L. Hanson	360,151	Mar. 29	2630	665	38	1423
Lamp. Electric-arc	A. Harding	356,282	Jan. 18	1407	372	38	285
Lamp. Electric-arc	C. A. Homans	373,934	Nov. 29	2479	665	41	971
Lamp. Electric-arc	H. Lemp	369,456	Sept. 6	201	57	40	1071
Lamp. Electric-arc	O. P. Loomis	369,194	Aug. 30	2654	705	40	994
Lamp. Electric-arc	H. C. McDill and J. E. Gaston	359,221	Mar. 8	1147	298	38	1122
Lamp. Electric-arc	H. Pieper, Fils.	362,312	May 3	337	93	39	540
Lamp. Electric-arc	H. L. Pyle	356,786	Feb. 1	56	17	38	434
Lamp. Electric-arc	H. L. Pyle	356,788	Feb. 1	62	17, 18	38	435
Lamp. Electric-arc	E. Thomson	356,903	Feb. 1	226	63	38	463
Lamp. Electric-arc	E. Thomson	365,553	June 28	1981	{ 516 517 }	{ 39 39 }	1489
Lamp. Electric-arc	E. Thomson and E. W. Rice, Jr	370,572	Sept. 27	1829	487	40	1399
Lamp. Electric-arc	J. Tregoning	360,254	Mar. 29	2778	{ 706 707 }	{ 38 38 }	1451
Lamp. Electric-arc	A. G. Waterhouse	366,613	July 12	1184	317	40	234
Lamp. Electric-arc	A. G. Waterhouse	366,614	July 12	1185	317	40	234
Lamp. Electric-arc	G. A. Wiese	361,663	Apr. 19	1821	472	39	356
Lamp. Electric-arc	G. A. Wiese	373,761	Nov. 22	2232	{ 597 598 }	{ 41 41 }	916
Lamp. Electric-arc	M. J. Wightman and H. Lemp	367,568	Aug. 2	307	89, 90	40	510
Lamp-extinguisher	F. R. Baker	359,123	Mar. 8	1017	262	38	1098
Lamp-extinguisher	C. P. Hall	358,658	Mar. 1	354	85	38	969
Lamp-extinguisher	J. A. Scharlin	360,328	Mar. 29	2879	733	38	1470
Lamp-extinguisher. Automatic	J. C. Daggett	365,734	June 28	2257	588	39	1539
Lamp-extinguisher. Automatic	L. C. Kidd	363,830	May 31	2505	{ 650 651 }	{ 39 39 }	975
Lamp extinguisher. Automatic car	G. M. Edwards	366,999	July 19	1699	457	40	337
Lamp-extinguisher for railway-cars	A. H. Marden	374,548	Dec. 6	549	143	41	1152

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lamp filaments. Manufacture of incandescent-electric.	A. Bernstein.....	369,091	Aug. 30	2529	671	40	968
Lamp filaments. Repairing incandescent-electric....	C. Pauthonier	363,909	May 31	2608	677	39	994
Lamp filaments while the same are being flashed. Device for holding incandescent.	H. Lemp and M. J. Wightman.....	366,673	July 19	1274	340	40	258
Lamp-filling attachment	G. W. Kisinger.....	358,422	Feb. 22	2413	641	38	895
Lamp-filling can	J. H. Franklin.....	363,737	May 24	2371	616	39	945
Lamp-filling can	J. A. Kendall	367,529	Aug. 2	255	72	40	500
Lamp-filling can	W. C. Winfield	362,474	May 3	568	158	39	584
Lamp fixture. Gas and electric.....	J. T. Robb.....	361,782	Apr. 26	1998	519	39	395
Lamp fixture. Incandescent.....	M. J. Wightman and H. Lemp	363,568	May 24	2126	551	39	898
Lamp for burning petroleum and light oils.....	L. Sepulchre.....	356,507	Jan. 25	1734	453	38	354
Lamp for decorating and illuminating purposes.....	J. H. Barth.....	373,958	Nov. 29	2518	677	41	978
Lamp for railway-trains. Tail-.....	R. J. Armour.....	372,054	Oct. 25	1901	490	41	397
Lamp for use in mines and other places. Safety-.....	M. Settle	361,455	Apr. 19	1521	393 394	39	299
Lamp for use in mines. Electric safety-.....	M. Settle	368,857	Aug. 23	2186	580	40	893
Lamp for velocipedes, &c	E. Rasmussen	368,355	Aug. 16	1473	392	40	748
Lamp frame. Electric.....	T. H. Brady	359,916	Mar. 22	2225	560	38	1342
Lamp-gallery	H. A. Walker.....	371,865	Oct. 18	1614	417	41	336
Lamp. Gas.....	L. F. Betts	364,703	June 14	700	187	39	1228
Lamp. Gas.....	R. M. Dixon	373,057	Nov. 15	1174	314	41	705
Lamp. Gas.....	L. G. Francis	365,336	June 21	1644	429	39	1410
Lamp. Gas.....	G. H. Ulmann	359,370	Mar. 15	1354	350	38	1167
Lamp. Gas.....	F. H. Wenham	355,629	Jan. 4	436	120	38	86
Lamp-globes. Protector for	F. Bredow	356,270	Jan. 18	1383	366	38	281
Lamp globes. Testing electric.....	C. F. Reinmann	374,850	Dec. 13	970	253	41	1245
Lamp hanger. Electric.....	F. Thomson	365,414	June 28	1765	458	39	1446
Lamp. Hanging.....	E. Fisher	373,280	Nov. 15	1513	399	41	767
Lamp. Hanging.....	L. Hornberger and G. L. Cooper.....	375,536	Dec. 27	1936	507	41	1447
Lamp. Hanging.....	F. Rhind	361,546	Apr. 19	1638	425	39	322
Lamp. Hanging.....	A. Taplin.....	363,698	May 24	2320	602	39	934
Lamp. Incandescent electric.....	C. G. Anderson.....	363,500	May 24	2029	528	39	880
Lamp. Incandescent electric.....	C. G. Anderson.....	365,499	June 28	1888	492	39	1469
Lamp. Incandescent electric.....	T. A. Edison	358,599	Mar. 1	279	66	38	954
Lamp. Incandescent electric.....	T. A. Edison	358,600	Mar. 1	280	66	38	955
Lamp. Incandescent electric.....	W. Holzer	356,199	Jan. 18	1294	342	38	262
Lamp. Incandescent electric.....	P. O. Jenkins	365,384	June 28	1731	448	39	1439
Lamp. Incandescent electric.....	J. Smith.....	365,351	June 21	1668	436	39	1416
Lamp. Incandescent electric.....	W. Stanley, Jr.....	363,559	May 24	2114	548 549	39	896
Lamp. Incandescent electric.....	E. P. Thompson	365,495	June 28	1884	491	39	1468
Lamp. Incandescent electric.....	E. P. Thompson	366,352	July 12	825	221	40	163
Lamp. Incandescent electric.....	E. P. Thompson	370,993	Oct. 4	387	97	41	76
Lamp. Incandescent electric.....	E. P. Thompson	371,003	Oct. 4	401	100	41	80
Lamp. Incandescent electric.....	S. F. Van Choate.....	362,128	May 3	104	32	39	494
Lamp. Incandescent electric.....	W. L. Voelker.....	356,019	Jan. 11	1031	271	38	208
Lamp. Incandescent electric.....	M. Wheeler.....	374,224	Dec. 6	75	20	41	1062
Lamp. Kerosene.....	A. G. Heath	359,968	Mar. 22	2314	582	38	1359
Lamp. Magnesium.....	H. Süss	370,904	Oct. 4	242	61, 62	41	47
Lamp. Miner's.....	J. L. Morris	373,244	Nov. 15	1464	386	41	758
Lamp. Miner's.....	E. Thomas.....	358,305	Feb. 22	2259	595	38	865
Lamp. Oil.....	C. Colahan	363,284	May 17	1713	448	39	810
Lamp. Oil.....	A. M. Silber	371,795	Oct. 18	1508	389	41	314
Lamp or gas heating attachment.....	C. B. White.....	359,415	Mar. 15	1433	366	38	1182
Lamp or lantern	C. G. Dyott.....	374,144	Nov. 29	2784	748	41	1030
Lamp. Overhead or ceiling.....	A. M. Silber	359,364	Mar. 15	1347	347	38	1166
Lamp. Parlor extension.....	D. W. Parker.....	367,840	Aug. 9	735	198	40	600
Lamp. Petroleum.....	W. E. A. Hartmann	369,598	Sept. 6	389	108	40	1109
Lamp-post	M. N. Diall	361,495	Apr. 19	1571	408	39	309
Lamp-post and lamp	F. A. Sawyer	372,334	Nov. 1	71	21, 22	41	485
Lamp post and signal	W. C. Smith.....	360,252	Mar. 29	2776	705	38	1451
Lamp. Regenerative gas.....	C. E. Bell.....	367,949	Aug. 9	894	242	40	629
Lamp. Regenerative gas.....	H. Fourness	362,830	May 10	1081	293	39	681
Lamp. Regenerative gas.....	C. M. Lungren. (Reissue)	10,793	Jan. 4	513	136	38	101
Lamp. Regenerative gas.....	C. M. Lungren.....	357,962	Feb. 15	1768	463 464	38	768
Lamp. Regenerative gas.....	C. M. Lungren. (Reissue)	10,871	Oct. 4	609	156	41	121
Lamp regulator. Electric.....	S. Mathis	372,986	Nov. 8	1056	283	41	674
Lamp-shade.....	G. E. Brehmer	373,219	Nov. 15	1431	377	41	752
Lamp-shade.....	W. E. Scofield	364,305	June 7	137	39	39	1115
Lamp-shade support.....	R. H. Sink and I. Pollock.....	363,916	May 31	2619	680	39	997
Lamp-shelf.....	R. W. Tanner	367,465	Aug. 2	148	42	40	480
Lamp. Signal.....	R. J. Armour.....	373,169	Nov. 15	1343	356	41	736
Lamp. Signal.....	J. Lyle	362,895	May 10	1176	314	39	698
Lamp socket and cut-out. Incandescent.....	H. Lemp and M. J. Wightman	365,189	June 21	1432	378	39	1371
Lamp socket and cut-out. Incandescent.....	M. J. Wightman and H. Lemp	365,159	June 21	1393	367	39	1363
Lamp stand or support and clamp. Combined.....	R. H. Bachlott, Jr.....	367,175	July 26	1944	524	40	391
Lamp-standard.....	C. Maschmeyer	366,014	July 5	368	99	40	69
Lamp-standard.....	W. Patzer	373,303	Nov. 15	1548	409	41	773
Lamp-standard.....	W. Patzer	373,304	Nov. 15	1549	409	41	774
Lamp. Standard	W. A. Penfield	373,376	Nov. 15	1666	442	41	796
Lamp. Street-car.....	C. E. Garey.....	365,062	June 21	1254	330	39	1338
Lamp-suspending devices. Balancing attachment for automatic.....	N. Jenkins	374,478	Dec. 6	437	114	41	1130
Lamp. Suspension.....	W. A. Hull.....	367,144	July 26	1911	516	40	384
Lamp trimmer and extinguisher	W. W. Haviland	358,199	Feb. 22	2121	560	38	839
Lamp-wick.....	F. M. Lytle.....	373,935	Nov. 29	2481	666	41	971
Lamps. Adjustable overflow device for.....	O. J. Heyne.....	359,567	Mar. 15	1671	427	38	1226
Lamps and lamp-stoves. Wick-tube for	L. J. Atwood	357,545	Feb. 8	1162	304	38	647
Lamps and other articles. Suspension device for.....	C. S. Barnard	357,142	Feb. 1	596	153	38	530
Lamps and other articles. Suspension device for.....	J. D. Griswold.....	365,470	June 28	1852	481	39	1462
Lamps and shades. Suspending device for	W. A. Hull.....	367,299	July 26	2142	576	40	428

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lamps. Apparatus for extinguishing, lighting, and regulating gas.	J. H. Wüster	363,781	May 24	2428	{ 630 631	{ 39	956
Lamps. Bending filaments for incandescent electric.	E. P. Thompson	371,000	Oct. 4	397	99	41	79
Lamps. Dash-pot for arc.	M. J. Wightman and H. Lemp	367,081	July 26	1819	490	40	368
Lamps. Device for attaching and detaching electric.	W. J. Hammer	363,332	May 17	1779	466	39	822
Lamps. Device for lighting.	F. S. Bean	368,448	Aug. 16	1614	431	40	776
Lamps. Device for suspending.	J. M. Zeigler	367,493	Aug. 2	205	57	40	491
Lamps. Evacuating globes for incandescent electric.	E. P. Thompson	370,994	Oct. 4	388	97	41	77
Lamps. Evacuating globes for incandescent electric.	E. P. Thompson	370,996	Oct. 4	392	98	41	78
Lamps. Evacuating incandescent electric.	E. P. Thompson	370,997	Oct. 4	394	98	41	78
Lamps. Filament for incandescent electric.	T. A. Edison	365,509	June 28	1914	.....	39	1475
Lamps. Forming filaments for incandescent electric.	E. P. Thompson	370,998	Oct. 4	395	98	41	78
Lamps. Gasoline-tank for gasoline street.	J. Moyer and J. C. Morgan	359,621	Mar. 22	1775	451	38	1261
Lamps. Globe for electric.	G. L. Abbott	365,498	June 28	1888	492	39	1469
Lamps. Insect-catching attachment for.	J. S. Ezell	356,629	Jan. 25	1914	502	38	388
Lamps. Manufacture of incandescent electric.	E. P. Thompson	370,999	Oct. 4	396	99	41	79
Lamps. Manufacturing filaments for incandescent electric.	E. P. Thompson	370,995	Oct. 4	390	97	41	77
Lamps. Mast-arm for electric.	T. B. Keeler	355,400	Jan. 4	141	38	38	29
Lamps. Mast-arm for hanging electric street.	F. H. Lacey	368,955	Aug. 30	2333	620	40	930
Lamps. Overflow device for.	O. J. Heyne	359,568	Mar. 15	1673	427	38	1226
Lamps. Pneumatic foot for.	S. Siemang	371,281	Oct. 11	775	199	41	160
Lamps. Safety device for incandescent.	E. A. Sperry	361,844	Apr. 26	2088	543	39	412
Lamps. Sealing in of wires for incandescent.	M. M. M. Slattery	358,492	Mar. 1	103	25	38	923
Lamps. Socket and key for incandescent.	J. J. Fisher	371,570	Oct. 18	1182	308	41	248
Lamps. Supporting-frame for electric.	H. H. Fairbanks and W. H. Coughlin.	356,580	Jan. 25	1836	481	38	373
Lamps. Suspension device for.	E. L. Bryant and H. D. Richardson.	375,600	Dec. 27	2037	{ 528 529	{ 41	1463
Lamps, &c. Suspension device for.	J. D. Griswold	363,063	May 17	1417	375	39	751
Lamps, &c. Suspension device for.	L. F. Griswold	372,260	Oct. 25	2212	{ 566 567	{ 41	456
Lamps. Suspension device for.	C. H. Lyman	365,481	June 28	1866	485	39	1464
Lamps. Switch and holder for incandescent electric.	W. Hochhausen	357,385	Feb. 8	926	244	38	603
Lamps. Terminal for incandescent.	M. M. M. Slattery	356,795	Feb. 1	76	22	38	438
Lamps. Treating filaments for incandescent electric.	E. P. Thompson	371,001	Oct. 4	399	99	41	79
Lamps. Treating filaments for incandescent electric.	E. P. Thompson	371,002	Oct. 4	400	99	41	80
Lamps. Ventilator and smoke-bell for.	T. Smith	357,736	Feb. 15	1456	381	38	710
Lamps. Wick-holding attachment for.	J. De Bondini and A. Seefelder	365,973	July 5	307	81	40	58
Lamps. Yielding support for bicycle and other.	E. A. Dobbins	362,612	May 10	771	212	39	624
Land-roller.	H. M. Bailey	365,773	July 5	6	2	40	4
Land-roller.	M. F. Bates	368,926	Aug. 30	2294	609	40	923
Land-roller.	E. C. Derby	374,117	Nov. 29	2749	739	41	1024
Land-roller.	F. P. Houghtaling	356,835	Feb. 1	127	35	38	446
Land-roller.	B. R. Lyddon	372,984	Nov. 8	1054	282	41	673
Land-roller.	J. F. Packer	369,873	Sept. 13	787	210	40	1192
Land-roller.	W. P. Settles	368,497	Aug. 16	1686	449	40	788
Land-roller and clod-crusher. Combined.	F. Twick	365,209	June 21	1454	{ 383 384	{ 39	1376
Land. Subdividing and designating.	W. A. Baugh	367,178	July 26	1950	{ 525 526	{ 40	392
Lantern.	L. F. Betts	355,297	Jan. 4	9	3	38	4
Lantern.	L. F. Betts	359,341	Mar. 15	1311	{ 340 341	{ 38	1159
Lantern.	J. A. Blankley and C. H. Tallman	363,581	May 24	2145	556	39	902
Lantern.	C. W. Colony	361,988	Apr. 26	2302	599	39	450
Lantern.	E. Hill	366,955	July 19	1647	{ 441 442	{ 40	328
Lantern.	J. H. Kelly and E. P. Follett	369,010	Aug. 30	2408	639	40	945
Lantern.	A. Loeffelholz	370,201	Sept. 20	1289	343	40	1292
Lantern.	I. J. Mahler	372,546	Nov. 1	386	104	41	544
Lantern.	F. Meyrose	363,161	May 17	1553	409	39	779
Lantern.	J. W. Murphy	371,898	Oct. 18	1669	{ 430 431	{ 41	345
Lantern.	J. W. Orphy	366,020	July 5	377	102	40	71
Lantern.	T. Parish	362,776	May 10	1021	{ 277 278	{ 39	670
Lantern.	W. J. Reed	363,679	May 24	2283	592	39	928
Lantern.	R. H. Taber	362,331	May 3	362	100	39	544
Lantern. Candle.	S. C. Drumbeller	370,770	Oct. 4	28	7	41	8
Lantern. Chinese.	L. T. Chu	361,134	Apr. 12	1070	270	39	203
Lantern-frame.	G. M. Clark, J. B. Wallace, and J. H. Kindlen.	363,364	May 24	1821	478	39	839
Lantern globe and reflector.	C. J. Higgins. (Reissue)	10,814	Mar. 8	1171	305	38	1126
Lantern-holder. Adjustable.	J. and A. F. Moser	373,472	Nov. 22	1807	481	41	834
Lantern-holder and reflector.	F. and F. H. Meyrose and E. Schaefer.	372,553	Nov. 1	397	107	41	546
Lantern. Magic.	W. H. Ridding	373,607	Nov. 22	2021	{ 536 537	{ 41	874
Lantern. Railway signal.	J. W. Cloud	355,438	Jan. 4	186	50	38	37
Lantern. Signal.	J. A. Bragaw	361,808	Apr. 26	2033	528	39	401
Lantern. Signal.	A. W. Hazelrigg	362,509	May 10	620	175	39	598
Lantern. Signal.	A. A. Strom	363,771	May 24	2417	627	39	953
Lantern-tops. Catch for hinged.	F. Kaczerowski	371,687	Oct. 18	1348	349	41	282
Lantern. Tubular.	C. Bergener	356,442	Jan. 25	1644	431	38	337
Lantern. Tubular.	E. Boesch	358,186	Feb. 22	2104	{ 555 556	{ 38	835
Lantern. Tubular.	I. N. Buck	359,708	Mar. 22	1894	481	38	1283
Lantern. Tubular.	W. S. Burn and E. Schultz	359,993	Mar. 29	2352	593	38	1372
Lantern. Tubular.	R. A. Cobb	355,385	Jan. 4	124	33	38	26
Lantern. Tubular.	R. A. Cobb. (Reissue)	10,841	June 7	586	157	39	1198
Lantern. Tubular.	F. Dietz	373,056	Nov. 15	1172	314	41	705
Lantern. Tubular.	J. S. Gall	363,515	May 24	2048	532	39	883
Lantern. Tubular.	E. C. Glazier	372,533	Nov. 1	364	99	41	539
Lantern. Tubular.	G. A. Kennedy	365,476	June 28	1861	483	39	1463

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lantern. Tubular.....	D. C. Kline.....	364,420	June 7	298	82	39	1145
Lantern. Tubular.....	D. C. Kline.....	364,825	June 14	895	236	39	1262
Lantern. Tubular.....	D. C. Kline.....	365,605	June 28	2063	538	39	1504
Lantern. Tubular.....	D. C. Kline.....	366,008	July 5	357	96	40	67
Lantern. Tubular.....	J. H. Stone.....	375,020	Dec. 20	1242	{ 324 325 }	{ 41 41 }	1304
Lanterns. Globe-lifting device for.....	C. L. Betts.....	364,570	June 7	519	140	39	1185
Lap-ring.....	T. N. Pulliam.....	370,084	Sept. 20	1114	296	40	1259
Lap ring or link.....	J. H. Williams.....	361,103	Apr. 12	1019	257	39	195
Lard, fruit, and oil press.....	M. Thompson.....	367,865	Aug. 9	769	207	40	606
Last.....	W. R. Chase.....	367,091	July 26	1835	495	40	371
Last.....	T. A. Kelly.....	363,069	May 17	1424	377	39	753
Last.....	C. A. Shaw and W. R. Chase.....	375,575	Dec. 27	1997	519	41	1458
Last.....	G. F. Stevens and J. E. Smyth.....	365,154	June 21	1386	366	39	1361
Last.....	H. Stockman.....	374,504	Dec. 6	476	{ 123 124 }	{ 41 41 }	1137
Last.....	E. C. Wright.....	355,750	Jan. 11	631	165	38	133
Last and last-standard.....	W. S. Thayer.....	374,564	Dec. 6	571	150	41	1157
Last and stretcher. Combined.....	S. Schwab.....	366,888	July 19	1561	418	40	312
Last-block fastener.....	G. A. Von Sholly.....	367,870	Aug. 9	774	209	40	607
Last for overshoes.....	F. D. Fry and H. W. Benedict.....	368,664	Aug. 23	1908	507	40	840
Last for sole-leveling machines.....	O. Gilmore.....	375,349	Dec. 27	1693	445	41	1400
Lasts. Method of and device for making wooden.....	W. Kingston.....	355,615	Jan. 4	416	114	38	82
Laster's tack-can.....	W. H. Marden.....	361,226	Apr. 12	1218	310	39	231
Laster's tack-can.....	T. F. Tyler.....	369,085	Aug. 30	2522	669	40	967
Lasting-jack.....	A. B. Clark.....	371,305	Oct. 11	807	206	41	166
Lasting-jack.....	D. F. Messer.....	375,500	Dec. 27	1889	494	41	1438
Lasting-machine.....	M. Brock.....	371,816	Oct. 18	1537	397	41	320
Lasting-machine.....	F. Chase.....	363,283	May 17	1711	448	39	810
Lasting-machine.....	G. W. Copeland, J. E. Crisp, and E. F. Grandy.....	365,504	June 28	1894	{ 493 494 }	{ 39 39 }	1470
Lasting-machine.....	S. B. Ellithorp.....	362,369	May 3	411	{ 114 115 }	{ 39 39 }	554
Lasting-machine.....	S. B. Ellithorp.....	362,370	May 3	416	{ 116 117 }	{ 39 39 }	555
Lasting-machine.....	C. H. Kelley.....	361,363	Apr. 19	1402	{ 360 361 362 }	{ 39 39 }	276
Lasting-machine.....	S. W. Paine and E. S. Combs.....	355,784	Jan. 11	676	{ 176 177 }	{ 38 38 }	141
Lasting-machine.....	S. W. Paine and E. S. Combs.....	355,785	Jan. 11	678	{ 177 178 }	{ 38 38 }	141
Lasting-machine.....	S. W. Paine and E. S. Combs.....	355,786	Jan. 11	685	{ 178 179 180 }	{ 38 38 }	142
Lasting-machine.....	S. N. Washburn.....	361,473	Apr. 19	1545	400	39	303
Lasting-machine clamp.....	S. B. Ellithorp.....	362,371	May 3	420	117	39	557
Lasting-tool.....	J. I. Vick.....	364,064	May 31	2839	737	39	1040
Latch.....	W. B. Cantrell.....	355,680	Jan. 11	527	139	38	112
Latch.....	W. B. Cantrell.....	371,420	Oct. 11	970	251	41	197
Latch.....	N. Clark.....	373,442	Nov. 22	1761	467	41	825
Latch.....	J. Doud.....	365,675	June 28	2162	564	39	1522
Latch.....	C. Henssler.....	362,276	May 3	291	81	39	530
Latch.....	A. Hetu.....	362,079	May 3	35	11	39	479
Latch.....	M. C. Niles.....	356,155	Jan. 18	1241	328	38	253
Latch.....	W. Noelte.....	372,815	Nov. 8	813	217	41	630
Latch.....	A. Pease.....	360,466	Apr. 5	99	25	39	20
Latch.....	J. Romig.....	356,696	Jan. 25	1995	524	38	403
Latch.....	B. A. Stevens.....	357,242	Feb. 8	733	190	38	566
Latch.....	G. H. Stone and A. Cote.....	372,878	Nov. 8	906	244	41	646
Latch.....	M. S. Thorud.....	365,281	June 21	1568	408	39	1395
Latch.....	E. S. Winchester.....	361,247	Apr. 12	1241	316	39	236
Latch and lock. Combined.....	W. C. Adam.....	359,760	Mar. 22	1982	501	38	298
Latch and lock. Combined.....	T. A. Auberlin.....	370,517	Sept. 27	1749	{ 465 466 }	{ 40 40 }	1385
Latch and lock. Combined.....	A. H. Brown.....	356,027	Jan. 11	1042	274	38	211
Latch and lock. Combined.....	W. E. Budd and F. Sickels.....	364,574	June 7	524	141	39	1187
Latch and lock. Combined.....	W. E. Budd and F. Sickels.....	372,961	Nov. 8	1018	274	41	667
Latch and lock. Combined.....	W. E. Budd and F. Sickels.....	372,963	Nov. 8	1024	275	41	668
Latch and lock. Combined.....	I. J. Cilley.....	366,646	July 19	1235	330	40	251
Latch and lock. Combined.....	J. C. Craig.....	358,385	Feb. 22	2366	628	38	886
Latch and lock. Combined.....	J. C. Craig.....	368,324	Aug. 16	1432	379	40	740
Latch and lock. Combined.....	H. F. D. Crownfield.....	366,998	July 19	1698	456	40	337
Latch and lock. Combined.....	A. R. Cusick.....	369,045	Aug. 30	2459	652	40	955
Latch and lock. Combined.....	W. D. Doremus.....	370,325	Sept. 20	1451	389	40	1323
Latch and lock. Combined.....	E. Hamburjer.....	366,829	July 19	1483	396	40	296
Latch and lock. Combined.....	E. Hamburjer.....	371,577	Oct. 18	1191	310	41	250
Latch and lock. Combined.....	G. B. Underwood.....	367,562	Aug. 2	300	86	40	508
Latch and lock. Gravity door.....	B. F. Pierce.....	371,354	Oct. 11	876	225	41	179
Latch. Coach.....	W. Schollhorn.....	371,375	Oct. 11	907	233	41	185
Latch. Door.....	T. Bason.....	366,808	July 19	1453	{ 388 389 }	{ 40 40 }	291
Latch. Door.....	E. S. Winchester.....	364,563	June 7	510	137	39	1184
Latch for doors, &c. Safety.....	J. Kaufmann and J. E. Mergott.....	367,146	July 26	1913	516	40	385
Latch for refrigerators, &c.....	T. Brabson.....	361,922	Apr. 26	2199	571	39	433
Latch. Gate.....	G. W. Charleville.....	373,271	Nov. 15	1499	395	41	765
Latch. Gate.....	T. Martin.....	369,352	Sept. 6	66	19	40	1046
Latch. Gate.....	S. Pugsley.....	357,787	Feb. 15	1538	401	38	725
Latch. Gate.....	W. H. Woodford.....	370,586	Sept. 27	1858	493	40	1404
Latch. Gravity.....	A. S. Ewing and J. H. Heitmann.....	355,645	Jan. 4	476	127	38	94
Latch-operating device.....	A. H. Calkins.....	365,236	June 21	1492	392	39	1383
Latch. Refrigerator.....	W. D. Swart.....	371,904	Oct. 18	1676	432	41	347
Latch. Sliding-door.....	F. V. Phillips.....	368,684	Aug. 23	1941	515	40	847
Latch. Spring mortise.....	F. A. Hollenbeck.....	357,084	Feb. 1	481	128	38	511

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Lath machine. Sheathing.....	O. A. Kelsey.....	372,073	Oct. 25	1936	499	41	403
Lath machine. Sheathing.....	W. S. Leonard.....	367,644	Aug. 2	423	118	40	532
Lath. Metallic.....	M. J. Donovan.....	372,131	Oct. 25	2027	519	41	419
Lathing attachment. Wire.....	G. Kelly.....	357,605	Feb. 15	1259	330	38	675
Lathing. Metallic.....	G. Kelly.....	359,679	Mar. 22	1850	470	38	1275
Lathing. Metallic.....	D. P. N. Little.....	366,328	July 12	793	214	40	157
Lathing. Metallic.....	C. Swinscoe.....	358,503	Mar. 1	119	29	38	926
Lathing. Metallic.....	C. Swinscoe.....	358,504	Mar. 1	120	29	38	926
Lathing to fire-proof partitions, &c. Securing wire.....	G. Kelly.....	358,203	Feb. 22	2124	560	38	839
Lathing. Wire.....	C. A. Sackett.....	372,819	Nov. 8	817	218	41	631
Lathe.....	J. J. Brewis.....	356,678	Jan. 25	1972	518	38	399
Lathe.....	P. J. Cahill.....	370,604	Sept. 27	1883	{ 499 500 }	{ 40 }	1409
Lathe.....	W. L. Coop.....	362,721	May 10	928	{ 253 254 }	{ 39 }	654
Lathe.....	W. H. Dodge and G. Philion.....	359,853	Mar. 22	2135	538	38	1325
Lathe.....	J. W. See.....	364,307	June 7	140	40	39	1115
Lathe.....	C. Seessle and G. W. Leiman.....	358,945	Mar. 8	783	197	38	1054
Lathe.....	P. Shellenback.....	364,966	June 14	1100	287	39	1301
Lathe.....	S. Slayton.....	367,246	July 26	2058	555	40	413
Lathe.....	C. Smith.....	368,021	Aug. 9	997	268	40	649
Lathe.....	L. W. Spencer.....	356,509	Jan. 25	1737	453	38	354
Lathe attachment.....	J. T. McCrosson and W. Hendry.....	363,475	May 24	1985	518	39	870
Lathe. Automatic.....	F. E. Fisher.....	360,215	Mar. 29	2717	{ 687 688 }	{ 38 }	1439
Lathe. Ball-turning.....	T. Draper.....	363,994	May 31	2746	712	39	1021
Lathe. Ball-turning.....	T. Draper.....	372,460	Nov. 1	261	72, 73	41	520
Lathe for forming pivots of balance-wheel shafts.....	C. V. Woerd.....	372,001	Oct. 25	1811	469	41	382
Lathe for turning balls, wheels, &c.....	G. F. Ballou.....	359,380	Mar. 15	1384	354	38	1172
Lathe for turning round rods.....	M. E. Stockwell.....	358,759	Mar. 1	495	121	38	996
Lathe. Grinding.....	C. M. Brown.....	370,003	Sept. 13	991	{ 261 262 }	{ 40 }	1229
Lathe head-stock.....	W. S. Halsey.....	365,681	June 28	2168	{ 565 566 }	{ 39 }	1523
Lathe head-stocks. Lock for.....	C. H. Weston.....	375,032	Dec. 20	1259	329	41	1306
Lathe. Metal-turning.....	W. F. Barnes.....	357,567	Feb. 15	1207	318	38	666
Lathe. Slide.....	G. F. Ballou.....	359,381	Mar. 15	1387	355	38	1172
Lathe-tool holder.....	J. L. Bogert.....	368,749	Aug. 23	2036	539	40	864
Lathe-tool holder.....	J. L. Bogert.....	373,878	Nov. 29	2406	{ 646 647 }	{ 41 }	956
Lathe-tool holder.....	C. E. Hall.....	358,607	Mar. 1	289	69	38	957
Lathe tool-post.....	C. W. Hunt.....	375,489	Dec. 27	1875	490	41	1435
Lathe-tool support.....	J. R. Back.....	360,132	Mar. 29	2601	659	38	1417
Lathe tool. Turning.....	I. Fonda.....	362,827	May 10	1078	292	39	681
Lathe. Tubular cutter.....	W. H. Lenhart.....	355,540	Jan. 4	319	85	38	64
Lathe. Watch-maker's.....	E. Rivett.....	363,000	May 17	1333	{ 352 353 }	{ 39 }	735
Lathe. Wood-turning.....	J. Rohlmann.....	364,441	June 7	329	{ 90 91 92 }	{ 39 }	1151
Lathes. Drilling-fixture for.....	G. F. Ballou.....	359,375	Mar. 15	1360	352	38	1169
Lathes. Driving-dog for.....	G. T. Reiss.....	361,648	Apr. 19	1802	467	39	353
Lathes. Drum for turning.....	G. Brenner.....	357,453	Feb. 8	1019	270	38	620
Lathes. Gear-cutting device for.....	G. F. Ballou.....	359,377	Mar. 15	1366	{ 352 353 }	{ 38 }	1170
Lathes. Work-clamp for slide.....	G. F. Ballou.....	359,376	Mar. 15	1363	352	38	1169
Lathes. Work-holder for.....	G. F. Ballou.....	359,379	Mar. 15	1382	354	38	1172
Lawn-cutter.....	H. L. Sprague.....	363,260	May 17	1679	440	39	803
Lawn-shears.....	G. M. Naumann.....	362,104	May 3	78	24	39	488
Lawn-shears.....	L. Weston.....	361,911	Apr. 26	2186	{ 566 567 }	{ 39 }	430
Lawn-sprinkler. Serpentine.....	A. G. Gumaer and J. G. W. Knoll.....	374,960	Dec. 20	1158	303	41	1289
Lawn-tennis. Machine for marking courts or lines for.....	E. C. Mills.....	365,532	June 28	1951	508	39	1483
Laying-out machine.....	E. A. Jerome.....	355,937	Jan. 11	917	239	38	186
Lead and rule holder.....	A. A. Low.....	356,845	Feb. 1	144	39	38	449
Lead. Apparatus for incasing wires with.....	E. C. Sloan.....	355,844	Jan. 11	767	202	38	156
Lead-armored conductor and making the same.....	T. G. Turner.....	369,372	Sept. 6	90	28	40	1051
Lead cooler. White.....	A. K. Johnson.....	361,590	Apr. 19	1709	442	39	334
Lead-granulating apparatus.....	J. O. Bosworth.....	373,766	Nov. 22	2245	601	41	918
Lead. Machine for covering conductors with.....	E. C. Sloan.....	355,843	Jan. 11	766	201	38	156
Lead. Manufacture of white.....	E. V. Gardner.....	359,352	Mar. 15	1327	344	38	1162
Lead. Manufacture of white.....	W. P. Talbot.....	374,716	Dec. 13	782	205	41	1208
Lead. Mechanism for trimming the lateral edges of sheet.....	C. E. Heiss.....	362,621	May 10	785	215	39	626
Lead or base bullion from slag, mattes, and speiss. Apparatus for separating.....	W. B. Devereux.....	374,239	Dec. 6	96	24	41	1065
Lead or crayon holder.....	C. W. Boman.....	372,198	Oct. 25	2118	544	41	437
Lead ores. Manufacturing sublimed lead pigments from.....	G. T. Lewis.....	364,268	June 7	92	26	39	1106
Lead-pipe reel.....	F. Eitapene.....	355,515	Jan. 4	284	75	38	57
Lead transversely. Machine for cutting sheet.....	C. E. Heiss.....	362,622	May 10	788	216	39	626
Leaf-holder.....	P. J. Rivers.....	358,072	Feb. 22	1932	509	38	804
Leaf-spring.....	D. P. Clark.....	374,041	Nov. 29	2634	707	41	1001
Leaf-turner.....	L. Muller.....	370,884	Oct. 4	200	53	41	40
Leather and other flexible materials. Fastening for.....	L. O. Dion.....	360,863	Apr. 12	665	174	39	131
Leather. Composition for cleaning, blacking, and oiling of.....	H. C. Parker.....	365,854	July 5	134	.....	40	27
Leather-creasing machine.....	S. H. Randall.....	357,230	Feb. 8	718	185	38	563
Leather-cutter.....	N. B. Jones.....	358,779	Mar. 1	525	128	38	1001
Leather cutting and embossing machine.....	G. Valiant and J. Nesbitt.....	360,933	Apr. 12	765	200	39	148
Leather-cutting die.....	A. D. Goetz.....	364,643	June 14	614	165	39	1211
Leather-cutting knife.....	H. Gould.....	370,736	Sept. 27	2084	552	40	1447
Leather-cutting machine.....	W. C. James.....	368,672	Aug. 23	1922	511	40	844

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Leather-dressing machine.....	E. A. Curry	356,191	Jan. 18	1281	338	38	259
Leather-embossing machine.....	J. Boyle	356,677	Jan. 25	1971	518	38	399
Leather-finishing machine	A. M. Bowers.....	366,298	July 12	745	{ 202 203	{ 40	148
Leather-finishing machine	A. M. Bowers.....	367,952	Aug. 9	899	{ 243 244	{ 40	630
Leather-finishing machine	G. A. Knox.....	362,286	May 3	301	83, 84	39	532
Leather finishing or ironing machine.....	A. M. Bowers	363,585	May 24	2150	557	39	903
Leather-graining machine.....	J. Wayland.....	372,585	Nov. 1	444	119	41	554
Leather. Machine for beading and hammering.....	A. Schmiedl	359,893	Mar. 22	2189	{ 552 553	{ 38	1335
Leather, &c. Machine for cutting	J. Matheis.....	361,707	Apr. 26	1890	489	39	376
Leather. Machine for japanning and enameling.....	R. G. Wood and P. Reilly	357,515	Feb. 8	1107	{ 291 292	{ 38	636
Leather. Machine for ornamenting.....	E. B. Stimpson.....	375,105	Dec. 20	1369	356	41	1327
Leather. Machine for splitting scraps of.....	C. E. Roberts.....	373,196	Nov. 15	1388	{ 367 368 389	{ 41	744
Leather-marking machine.....	A. Schmiedl	367,668	Aug. 2	472	130	40	540
Leather or other materials. Machine for cutting	H. Parsons.....	368,108	Aug. 9	1114	{ 295 296	{ 40	671
Leather or other material. Mechanism for uniting } scraps of }	F. Knox	370,068	Sept. 20	1093	{ 289 290	{ 40	1255
Leather-scrap. Machine for splitting.....	C. E. Roberts.....	372,640	Nov. 1	525	144	41	570
Leather-scrap-splitting machine.....	C. E. Roberts.....	358,883	Mar. 8	696	173	38	1036
Leather-skiving machine.....	F. Engel and C. Wagner.....	367,709	Aug. 2	546	149	40	553
Leather-skiving machine.....	J. N. Whitcomb.....	363,265	May 17	1686	442	39	805
Leather softening or staking machine.....	A. M. Bowers.....	365,963	July 5	294	78	40	56
Leather-splitting machine.....	W. E. Adams.....	362,412	May 3	481	136	39	568
Leather-splitting machine.....	G. Faustmann.....	374,401	Dec. 6	325	85	41	1108
Leather-splitting machine.....	T. Smith.....	358,081	Feb. 22	1942	512	38	806
Leather-splitting machine.....	H. Worcester.....	362,694	May 10	894	293	39	647
Leather-staking machine.....	G. W. Baker.....	372,507	Nov. 1	325	89	41	532
Leather. Substitute for	M. Zingler.....	362,139	May 3	119	.....	39	496
Leather. Uniting pieces of	L. O. Dion.....	375,479	Dec. 27	1864	487	41	1433
Leaves. Reproducing natural	A. Thommen.....	372,094	Oct. 25	1966	.....	41	408
Ledger and blotter. Combined petit	H. A. Pershing.....	367,924	Aug. 9	856	233	40	623
Ledger. Petit.....	H. A. Pershing.....	370,349	Sept. 20	1486	398	40	1330
Leg. Artificial.....	C. A. Frees.....	368,580	Aug. 23	1798	479	40	819
Leg. Artificial.....	H. M. Kreemer.....	360,446	Apr. 5	73	19	39	15
Leg. Artificial.....	G. E. Marks.....	366,494	July 12	1000	272	40	199
Leg-covering.....	J. Holmes.....	364,650	June 14	620	167	39	1213
Leggin.....	M. M. Sweeny.....	373,788	Nov. 22	2273	609	41	923
Leggin. Child's.....	S. Rauh.....	365,941	July 5	266	70	40	51
Lemon-squeezer.....	J. T. Hodson.....	369,711	Sept. 13	549	151	40	1148
Lemon-squeezer.....	J. A. Hurley.....	375,323	Dec. 20	1655	434	41	1384
Lenses. Trial-case for optical	G. Johnston.....	368,720	Aug. 23	2004	530	40	857
Lesson-displaying device.....	C. R. Viehofer.....	358,761	Mar. 1	497	122	38	996
Letter blank and envelope	A. Cox.....	369,274	Aug. 30	2756	735	40	1014
Letter-box.....	A. V. B. Bush.....	357,143	Feb. 1	197	153	38	531
Letter-box.....	P. J. Keenan.....	359,870	Mar. 22	2159	545	38	1330
Letter-box.....	H. B. Lambert.....	357,012	Feb. 1	376	100	38	492
Letter-box.....	J. McLane.....	361,172	Apr. 12	1134	286	39	215
Letter-box.....	T. S. Scoville.....	359,548	Mar. 15	1632	418	38	1219
Letter-box.....	C. F. Teller.....	358,632	Mar. 1	315	75, 76	38	962
Letter-boxes. Automatic indicator for	H. B. Griffiths.....	368,918	Aug. 23	2276	605	40	911
Letter-sheet and envelope. Combined.....	H. D. Lefevre.....	372,685	Nov. 8	596	162	41	593
Letter-sheet and envelope combined	J. N. Proeschel and E. McClintock.....	374,555	Dec. 6	562	147	41	1155
Level for boring-bits. Plumb.....	G. Woods.....	371,294	Oct. 11	794	203	41	163
Level. Pendulum.....	O. B. Fuller.....	370,013	Sept. 13	1011	267	40	1232
Level. Plumb.....	E. Duffy.....	360,378	Mar. 29	2957	751	38	1482
Level. Plumb.....	F. Sonntag.....	361,728	Apr. 26	1916	497	39	381
Level. Plumb.....	A. Spranger.....	369,750	Sept. 13	595	162	40	1156
Level. Spirit.....	G. P. Evelyn.....	363,998	May 31	2750	713	39	1022
Level. Spirit.....	P. L. Fox.....	370,054	Sept. 20	1074	284	40	1252
Level. Spirit.....	J. Holly.....	363,140	May 17	1521	402	39	772
Level. Spirit.....	C. B. Long.....	372,921	Nov. 8	964	262	41	657
Level. Spirit.....	H. N. Jasper.....	356,645	Jan. 25	1933	506	38	391
Level. Spirit.....	E. F. St. John.....	375,222	Dec. 20	1523	400	41	1359
Level. Spirit.....	W. C. Thatcher.....	359,580	Mar. 15	1693	432	38	1230
Level. Spirit.....	W. R. Vogt.....	359,236	Mar. 8	1166	303	38	1125
Level. Spirit.....	O. D. Wood.....	365,033	June 14	1197	316	39	1317
Level stock. Spirit.....	E. A. and C. M. Stratton	370,826	Oct. 4	100	27	41	21
Level. Telescopic hand.....	W. Gurley.....	360,805	Apr. 5	574	150	39	108
Leveling-instrument.....	T. J. Megown.....	360,536	Apr. 5	208	51	39	41
Leveling-instrument.....	J. S. Smith.....	367,859	Aug. 9	762	205	40	605
Leveling-instrument.....	T. C. Thomas.....	370,106	Sept. 20	1151	305	40	1265
Leveling-instrument.....	A. W. Wickham and J. M. Roach	373,627	Nov. 22	2052	546	41	879
Leveling-instrument.....	W. A. Wright.....	360,837	Apr. 5	623	165	39	117
Leveling-instrument. Hydrostatic	C. A. Karr.....	375,450	Dec. 27	1828	478	41	1426
Leveling-rod.....	W. J. Ritchie.....	375,197	Dec. 20	1490	390	41	1352
Leveling-rod. Extension.....	W. A. Wright.....	360,836	Apr. 5	622	165	39	117
Lever for tedders, &c. Adjusting.....	J. E. Offutt.....	356,371	Jan. 18	1536	404	38	309
Lever press. Sector.....	G. W. Grader.....	362,953	May 17	1262	334	39	721
Lever. Reversing.....	J. Player.....	369,994	Sept. 13	974	257	40	1226
Lever-wrench.....	G. A. Reese.....	371,476	Oct. 11	1043	271	41	212
Lewis-iron.....	O. E. Cartwright.....	361,927	Apr. 26	2204	572	39	434
Life-boat.....	A. Battard.....	359,762	Mar. 22	1985	502	38	1298
Life-boat.....	J. C. Moore.....	364,277	June 7	103	29	39	1109
Life-boat.....	W. W. Parker.....	375,566	Dec. 27	1983	{ 516 517	{ 41	1456
Life detecting and preserving apparatus.....	W. H. Farnham and C. B. Askew	357,190	Feb. 8	667	173	38	553
Life in buried persons. Device for indicating.....	C. Redl.....	371,626	Oct. 18	1256	{ 326 327	{ 41	263

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Life-preserver	W. J. Creamer and J. D. Leach.....	369,319	Sept. 6	19	5	40	1038
Life-preserver	F. Herrmann	370,538	Sept. 27	1781	475	40	1391
Life-preserver	C. Leduc	356,592	Jan. 25	1851	487	38	376
Life-preserver	C. B. Morgan	371,781	Oct. 18	1484	383	41	310
Life-saving apparatus	P. Carolan	375,047	Dec. 20	1279	334	41	1310
Lifter:							
See Coffin-cap lifter.	Spittoon-lifter.						
Pan-lifter.	Transom-lifter.						
Pot and lid lifter.	Trunk-lid lifter.						
Pipe-lifter.							
Lifter and carrier	F. P. Keller	370,949	Oct. 4	313	77	41	62
Lifting and pulling hook	A. A. Porter	370,350	Sept. 20	1487	399	40	1331
Lifting apparatus	J. Sargent	357,234	Feb. 8	723	187	38	564
Lifting-jack	P. J. Abbott	359,486	Mar. 15	1535	393	38	1201
Lifting-jack	A. K. Bagwell	363,194	May 17	1599	420	39	788
Lifting-jack	J. S. Black	356,443	Jan. 25	1645	432	38	337
Lifting-jack	M. G. Crane	355,866	Jan. 11	803	210	38	163
Lifting-jack	J. A. Dill	363,050	May 17	1400	370	39	748
Lifting-jack	J. B. Dubler, Sr	356,193	Jan. 18	1285	339	38	260
Lifting-jack	E. B. Griffin	370,253	Sept. 20	1352	362	40	1304
Lifting-jack	J. W. Hawkins	361,944	Apr. 26	2230	580	39	439
Lifting-jack	E. Huber	362,085	May 3	48	14	39	482
Lifting-jack	E. Huber	375,675	Dec. 27	2146	558	41	1485
Lifting-jack	F. Jordan	355,323	Jan. 4	43	12	38	10
Lifting-jack	F. Kellogg	369,529	Sept. 6	298	82	40	1091
Lifting-jack	W. F. Knowlton	369,645	Sept. 6	463	129	40	1123
Lifting-jack	M. H. Levy	368,096	Aug. 9	1099	292	40	668
Lifting-jack	T. Maxon	362,456	May 3	545	151	39	579
Lifting-jack	L. Meeker	362,029	Apr. 26	2364	616	39	461
Lifting-jack	S. E. Mosher	356,486	Jan. 25	1708	446	38	349
Lifting-jack	J. North	361,022	Apr. 12	908	229	39	172
Lifting-jack	B. F. Norton	356,395	Jan. 18	1572	414	38	315
Lifting-jack	L. O'Hara	355,551	Jan. 4	335	90	38	68
Lifting-jack	F. Quint	366,792	July 19	1434	383	40	287
Lifting-jack	A. A. Strom	359,106	Mar. 8	998	257	38	1094
Lifting-jack	A. A. Strom	359,411	Mar. 15	1424	364	38	1180
Lifting-jack	A. S. Towle	364,974	June 14	1112	290	39	1303
Lifting-jack	B. V. Vosburgh	359,651	Mar. 22	1812	460	38	1268
Lifting-jack	J. Wilson	361,564	Apr. 19	1666	431	39	327
Lifting-jack	J. B. Winn	367,881	Aug. 9	793	214	40	611
Lifting-machine	D. E. McKee	363,476	May 24	1986	519	39	870
Lifting-machine	D. P. Trumble	363,439	May 24	1930	506	39	859
Light:							
See Arc light.	Locomotive head-light.						
Electric-arc light.	Signal-light.						
Gas-light.	Switch-signal light.						
Head-light.	Vault-light.						
Light-fixture. Extension.	P. G. Brown	358,802	Mar. 1	556	139	38	1007
Light-refractor	R. B. King	371,330	Oct. 11	840	215	41	172
Lights. Feed mechanism for arc	W. W. Street	369,568	Sept. 6	253	98	40	1101
Lighting, &c. Apparatus for supplying hydrocarbon and other liquids for	F. J. Mitchell and O. B. Warren.....	369,870	Sept. 13	782	208	40	1191
Lighting buildings. Apparatus for	A. M. Southard	355,351	Jan. 4	84	22	38	18
Lighting device	J. O. Howe	375,632	Dec. 27	2086	543	41	1474
Lighting. Refractory filament for	C. M. Lungren	365,832	July 5	101	28	40	21
Lightning-arrester	A. B. Depuy	369,436	Sept. 6	172	50	40	1064
Lightning-arrester	E. A. Sperry	369,036	Aug. 30	2446	649	40	952
Lightning-arrester	M. J. Wightman and H. Lemp	363,567	May 24	2125	551	39	898
Lightning-arrester for protecting oil-tanks.	D. O'Brien	367,435	Aug. 2	105	29	40	471
Lightning-conductor	W. Brown	369,915	Sept. 13	848	224	40	1204
Lightning-protector for electrical conductors	J. H. Vail	357,050	Feb. 1	434	115	38	502
Lightning-rod	E. O. Daniels	362,064	May 3	17	5	39	476
Lightning-rod	C. H. Grimes	356,531	Jan. 25	1762	459	38	359
Lightning-rod	C. F. Hill	361,520	Apr. 19	1603	415	39	316
Lightning-rod	J. H. Schoonmaker	364,605	June 7	562	151	39	1194
Lightning-rod	F. Westcott	362,801	May 10	1048	285	39	675
Lightning-rod brace	L. L. Mast	367,348	July 26	2212	594	40	441
Lightning-rod standard or brace	T. H. Patee and S. R. Lawshe	359,940	Mar. 22	2263	569	38	1349
Lightning-rods, &c. Ball ornament for	A. J. Munson	355,655	Jan. 4	487	130	38	95
Lightning-rods. Interlocking coupling for	G. R. Kress	373,407	Nov. 15	1710	453	41	803
Lightning-rods. Multiple subsidiary ground-terminal for	J. W. Cole	362,062	May 3	15	5	39	475
Limb. Artificial	A. A. Winkley	371,239	Oct. 11	714	184	41	149
Limbs. Joint for artificial	G. R. Fuller	370,774	Oct. 4	34	8	41	9
Limbs. Tendon for artificial	G. R. Fuller	361,405	Apr. 19	1455	375	39	286
Lime. Burning	J. and J. Druecker	358,437	Mar. 1	18	6	38	906
Lime-distributor	J. Hotham	365,519	June 28	1932	503	39	1479
Lime or cement. Manufacture of	H. Mathey	369,353	Sept. 6	67	19	40	1046
Lime or cement. Manufacture of	H. Mathey	369,354	Sept. 6	68	19	40	1047
Line-fastener	J. Loch	356,691	Jan. 25	1989	522	38	402
Liniment	J. Gray	374,958	Dec. 20	1157	.....	41	1289
Liniment	J. W. Still	372,825	Nov. 8	825	.....	41	632
Link	S. W. Graybill	371,935	Oct. 25	1721	445	41	365
Link-bending machine	S. Collins	366,304	July 12	760	205	40	151
Link-blanks. Machine for cutting and bending.	H. Brauchler	357,172	Feb. 8	641	167	38	548
Link. Open	T. N. Hill	355,317	Jan. 4	33	9	38	8
Lint and dust excluder	J. T. Bright	364,394	June 7	255	72	39	1137
Liquid-discharging apparatus	J. T. Lynch and E. J. Fitzgerald	370,707	Sept. 27	2036	542	40	1439
Liquid-elevator	T. G. Lemmon	361,069	Apr. 12	970	246	39	185

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Liquid-fuel furnace	C. M. Gearing	374,057	Nov. 29	2661	715	41	1006
Liquid in exchange for a coin. Apparatus for the delivery of a given quantity of	P. Everitt	371,257	Oct. 11	743	{ 190 191	{ 41	154
Liquid-meter. Oscillating	W. Cowan	355,592	Jan. 4	385	{ 103 104	{ 38	77
Liquid-separator. Automatic	W. A. Morrison	368,544	Aug. 16	1748	465	40	800
Liquid-separator. Centrifugal	C. A. Backstrom	358,587	Mar. 1	262	60, 61	38	952
Liquid-separator. Centrifugal	C. A. Backstrom	367,778	Aug. 9	647	174	40	581
Liquid-separator. Centrifugal	C. A. Backstrom	368,045	Aug. 9	1027	276	40	655
Liquid-separator. Centrifugal	C. A. Backstrom	368,046	Aug. 9	1029	277	40	655
Liquid-separator. Centrifugal	C. A. Backstrom	368,047	Aug. 9	1031	277	40	656
Liquid-separator. Centrifugal	C. A. Backstrom	368,048	Aug. 9	1033	278	40	656
Liquid-separator. Centrifugal	C. A. Backstrom	368,049	Aug. 9	1037	278	40	656
Liquid-separator. Centrifugal	H. F. Beimling	357,547	Feb. 8	1164	305	38	647
Liquid-separator. Centrifugal	G. De Laval	372,788	Nov. 8	759	{ 204 205	{ 41	621
Liquid-separator. Centrifugal	C. W. A. Koelkebeck	362,449	May 3	530	148	39	577
Liquid-separator. Centrifugal	C. D. B. Shepard	375,012	Dec. 20	1230	321	41	1301
Liquids. Apparatus for drawing	H. M. Powers	358,480	Mar. 1	87	21, 22	38	920
Liquids. Apparatus for indicating the speed and quantity of	J. J. Tylor	363,922	May 31	2635	684	39	999
Liquids. Apparatus for maintaining a proportional flow of	C. C. Barton	371,166	Oct. 11	618	158	41	130
Liquids. Apparatus for maintaining a proportional flow of	C. C. Barton	371,167	Oct. 11	620	158	41	130
Liquids. Apparatus for preparing and bottling effervescent	F. A. Reihlen	357,098	Feb. 1	503	134	38	515
Liquids, &c. Apparatus for separating by subsidence solid matters from	W., Sr., and W. Macnab, Jr.	367,308	July 26	2151	579	40	430
Liquids. Device for decanting	L. C. Brickenstein and C. A. Babendreier ..	360,557	Apr. 5	243	61	39	47
Liquids. Device for regulating the feed and discharge of	W. A. Goodyear and L. Ketchum ..	356,831	Feb. 1	118	32	38	445
Liquids from solids by pressure. Cylinder for separating	P. H. Grimm	358,974	Mar. 8	822	208	38	1061
Liquids. Raising	J. B. Harrison	364,512	June 7	430	116	39	1169
Lister and seeder. Combined	B. C. Bradley	360,793	Apr. 5	555	{ 144 145	{ 39	104
Litharge-furnace	S. C. Rowell	370,892	Oct. 4	220	56	41	43
Lithographic process, &c	L. Bertling	373,331	Nov. 15	1589	.....	41	782
Lithography from photographs. Producing copies for	J. B. Germeuil-Bonnaud	358,774	Mar. 1	515	.....	38	999
Loading and unloading apparatus	K. E. Lathrop	358,558	Mar. 1	223	51	38	945
Loading apparatus	P. H. Grimm	363,062	May 17	1415	374	39	751
Lobster-trap	J. M. Steward	363,858	May 31	2546	662	39	984
Lock:							
See Alarm-lock. Indicator-lock.							
Bag-lock. Knob-lock.							
Box-lock. Mortise-lock.							
Canal-lock. Nut-lock.							
Car-lock. Nut and bolt lock.							
Car-seat lock. Oar-lock.							
Chain-lock. Permutation-lock.							
Coin-operated lock. Railway turn-table lock.							
Combination-lock. Safe-lock.							
Cylinder-lock. Safety-lock.							
Door-lock. Sash-lock.							
Electric lock. Seal-lock.							
Electrical combination-lock. Seat-lock.							
Elevator-lock. Switch and signal lock.							
Elevator-cable lock. Time-lock.							
Fence-lock. Trap-lock.							
Fire-arm lock. Trunk-lock.							
Gate-lock. Vehicle-wheel lock.							
Gun-lock. Wagon-box lock.							
Hasp-lock. Whip-lock.							
Lock	B. Delvalle	367,963	Aug. 9	919	248	40	634
Lock	W. D. Doremus	370,183	Sept. 20	1264	336	40	1288
Lock	W. D. Doremus	374,179	Dec. 6	24	6	41	1051
Lock	W. D. Doremus	374,784	Dec. 13	877	230	41	1227
Lock	J. Jeczalik	358,976	Mar. 8	826	209	38	1061
Lock	G. E. Merriman	362,303	May 3	321	89	39	536
Lock	M. S. Otis	359,276	Mar. 15	1223	319	38	1143
Lock	E. L. Perkins	359,094	Mar. 8	976	250	38	1090
Lock	L. C. Rau	369,030	Aug. 30	2437	647	40	951
Lock	S. Simson	365,152	June 21	1384	366	39	1361
Lock	C. R. Uhlmann	360,066	Mar. 29	2484	631	38	1397
Lock	W. H. Taylor	373,107	Nov. 15	1243	331	41	719
Lock	W. H. Taylor	373,253	Nov. 15	1471	389	41	759
Lock and latch. Combined	W. E. Budd and F. Sickels	372,962	Nov. 8	1021	{ 274 275	{ 41	667
Lock and latch. Combined	E. Nyswonger	364,727	June 14	730	195	39	1234
Lock and latch. Combined	S. L. Powell	366,506	July 12	1021	278	40	203
Lock and latch. Combined	R. S. Robertson	356,013	Jan. 11	1024	269	38	207
Lock-caps. Machine for making	G. B. Cowles	368,133	Aug. 9	1147	304	40	677
Lock for alarm-boxes	F. Pearce and J. Jones	360,906	Apr. 12	727	191	39	142
Lock for bolts of pistons	J. and J. Wormald, Jr.	365,218	June 21	1466	387	39	1378
Lock for drawers	J. F. Wollensak	368,697	Aug. 23	1967	521	40	851
Lock for frames of pocket-books, &c	M. Koenig	371,508	Oct. 11	1094	284	41	222
Lock for pocket-book or satchel frames	M. C. Schmidt	363,174	May 17	1571	414	39	783
Lock for pocket-books, satchels, &c	L. B. Prahar	359,033	Mar. 8	901	230	38	1075
Lock for sliding covers	S. E. Hurlbut	358,450	Mar. 1	38	11	38	911
Lock. Nut	F. H. Howes	361,289	Apr. 19	1297	332	39	258

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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Locket.....	S. A. Briggs.....	367,087	July 26	1829	493	40	370
Locket.....	J. H. Sprague.....	358,416	Feb. 22	2405	640	38	893
Locket, ear-ring, or other jewelry.....	H. Vollmer.....	368,984	Aug. 30	2374	631	40	939
Locking device for hatches, doors, &c.....	T. J. Pettigrew.....	375,459	Dec. 27	1836	{ 480 481 188	{ 41	1428
Locomotion. Electric.....	L. Daft.....	371,253	Oct. 11	738	{ 189 190	{ 41	153
Locomotion on steep inclines. Effecting.....	R. H. Lapage.....	360,230	Mar. 29	2745	696	38	1444
Locomotive.....	J. Blasdale.....	367,335	July 26	2189	588	40	437
Locomotive.....	E. M. Boynton.....	359,008	Mar. 8	873	222	38	1069
Locomotive.....	A. L. Gilstrop.....	360,875	Apr. 12	684	179	39	134
Locomotive.....	W. J. Heffernan.....	355,608	Jan. 4	402	109	38	80
Locomotive.....	C. H. Wilson.....	359,947	Mar. 22	2275	511	38	1351
Locomotive ash-pan.....	E. Evans.....	359,923	Mar. 22	2238	563	38	1345
Locomotive attachment.....	T. Alexander.....	368,366	Aug. 16	1487	396	40	751
Locomotive-boiler.....	J. E. Wootten and J. S. Bell.....	361,661	Apr. 19	1818	471	39	356
Locomotive-brake.....	L. P. Lawrence.....	371,602	Oct. 18	1224	319	41	257
Locomotive-brake.....	G. H. Poor. (Reissue).....	10,796	Jan. 11	1135	300	38	227
Locomotive. Compound.....	A. Von Borries.....	361,471	Apr. 19	1544	{ 399 400	{ 39	303
Locomotive-coupling.....	A. Selkirk.....	363,856	May 31	2541	{ 660 661	{ 39	983
Locomotive-driver brake.....	G. Westinghouse, Jr.....	373,706	Nov. 22	2162	{ 578 579	{ 41	903
Locomotive driving-box cellar.....	W. J. Healy.....	360,437	Apr. 5	60	16	39	13
Locomotive driving-wheel.....	C. E. Swinerton.....	362,046	Apr. 26	2382	621	39	464
Locomotive. Electric.....	H. Erhardt.....	356,579	Jan. 25	1855	{ 480 481 484	{ 38	372
Locomotive. Electric.....	E. S. Shaw.....	367,069	July 26	1796	{ 485 486	{ 40	364
Locomotive-engine.....	H. W. Ladd.....	359,080	Mar. 8	959	246	38	1086
Locomotive-engine.....	W. J. Tripp.....	369,482	Sept. 6	230	65	40	1077
Locomotive-engine.....	T. T. Woodruff.....	356,085	Jan. 11	1132	{ 298 299	{ 38	226
Locomotive-engines. Clamp for the valve-rods of.....	E. G. Medrick.....	358,871	Mar. 8	680	169	38	1033
Locomotive-furnace.....	A. Backus, Jr.....	369,156	Aug. 30	2606	692	40	985
Locomotive-grate.....	C. Knaggs.....	374,839	Dec. 13	959	250	41	1242
Locomotive head-light.....	H. F. Hogan.....	372,264	Oct. 25	2219	568	41	456
Locomotive head-light.....	I. A. and C. I. Williams.....	365,112	June 21	1325	{ 351 352	{ 39	1350
Locomotive-injector. Automatic.....	F. W. Kremer.....	374,975	Dec. 20	1184	308	41	1293
Locomotive-lubricator.....	W. H. Craig.....	367,370	Aug. 2	22	6	40	455
Locomotive smoke-stack.....	W. H. Snyder and S. Hufty.....	370,746	Sept. 27	2095	556	40	1449
Locomotive-tender.....	R. G. S. Collamore.....	371,251	Oct. 11	734	{ 187 188	{ 41	152
Locomotive-tire gage.....	L. Keen.....	366,401	July 12	884	237	40	175
Locomotive turn-table.....	E. Lyon.....	359,220	Mar. 8	1145	{ 297 298	{ 38	1121
Locomotive-whistles. Device for automatically blowing.....	C. Hess.....	369,852	Sept. 13	748	{ 200 201	{ 40	1185
Locomotives. Automatic stop-block for.....	F. Mertsheimer.....	366,594	July 12	1158	311	40	229
Locomotives. Combined smoke-stack and feed-water heater for.....	J. Armstrong.....	355,632	Jan. 4	440	121	38	87
Locomotives. Electric attachment for.....	N. F. Chase.....	370,243	Sept. 20	1339	{ 357 358	{ 40	1302
Locomotives. Exhaust mechanism for.....	I. F. Wallace.....	356,562	Jan. 25	1816	475	38	369
Locomotives. Pilot or cow-catcher for.....	F. Norell.....	375,457	Dec. 27	1834	480	41	1427
Locomotives. Sand-pipe for.....	D. A. Reagan.....	367,062	July 26	1785	482	40	362
Log-boom.....	B. A. Rice.....	368,239	Aug. 16	1317	347	40	716
Log-dog.....	E. H. Allman.....	356,973	Feb. 1	321	87	38	482
Log-elevator.....	G. A. Sanders.....	368,975	Aug. 30	2360	627	40	936
Log-turner.....	H. M. Ferris and W. Gallon.....	362,826	May 10	1076	292	39	680
Logs. Machine for removing bark from.....	F. M. Purinton.....	368,968	Aug. 30	2352	624	40	934
Longitudinally-expanding roller.....	A. W. Schlichte.....	374,709	Dec. 13	773	203	41	1207
Looking-glass frame.....	L. Dill.....	355,597	Jan. 4	393	106	38	79
Loom.....	W. Bowker and R. Williams.....	375,335	Dec. 27	1671	{ 439 440	{ 41	1396
Loom.....	J. Cowgill.....	375,131	Dec. 20	1406	366	41	1334
Loom.....	G. Crompton.....	363,367	May 24	1824	479	39	840
Loom.....	L. E. Dubois.....	367,028	July 26	1739	{ 468 469	{ 40	353
Loom.....	A. Duquesne.....	366,940	July 19	1625	{ 435 436	{ 40	324
Loom.....	B. Scarles.....	364,860	June 14	946	250	39	1272
Loom.....	J. Widmer.....	365,420	June 28	1775	461	39	1447
Loom.....	H. Wyman.....	364,697	June 14	684	{ 182 183	{ 39	1225
Loom. Circular.....	B. Arnold.....	357,651	Feb. 15	1330	350	38	687
Loom. Circular.....	A. De Laski.....	361,994	Apr. 26	2308	{ 601 602 603 604	{ 39	451
Loom. Circular.....	A. De Laski.....	375,135	Dec. 20	1412	{ 367 368	{ 41	1335
Loom. Circular.....	J. E. Gillespie.....	361,758	Apr. 26	1958	{ 510 511	{ 39	388
Loom. Circular.....	R. Sauter.....	365,101	June 21	1308	{ 346 347	{ 39	1348
Loom. Circular.....	G. Wasserman.....	359,414	Mar. 15	1428	{ 365 366	{ 38	1181
Loom cutting attachment.....	P. Cocker.....	361,929	Apr. 26	2207	573	39	434

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Loom for cross-weaving	C. A. Littlefield	371,081	Oct. 4	496	{ 124 125 }	41	98
Loom for weaving double piled fabrics	R. Handy	374,064	Nov. 29	2671	718	41	1008
Loom for weaving double pile fabrics	C. Pearson	356,011	Jan. 11	1021	{ 268 269 }	38	207
Loom for weaving fabric containing wavy stripes, &c. Attachment for	G. F. Hutchins	357,711	Feb. 15	1415	372	38	703
Loom for weaving looped or terry fabrics	T. A. Brady	358,376	Feb. 22	2351	625	38	883
Loom for weaving looped or terry fabrics	J. A. Campbell	373,175	Nov. 15	1357	359	41	738
Loom for weaving looped or terry fabrics	N. A. Woodhead	372,005	Oct. 25	1816	470	41	383
Loom for weaving open-mesh tubular fabrics	B. Muench	373,533	Nov. 22	1919	509	41	854
Loom for weaving pile fabrics	G. Poole	369,028	Aug. 30	2430	{ 645 646 }	40	950
Loom for weaving terry fabrics	W. Weaver	355,736	Jan. 11	610	159	38	129
Loom for weaving tufted fabrics	J. J. Devitt and J. Corcoran	367,094	July 26	1839	{ 496 497 }	40	372
Loom for weaving tufted fabrics	A. K. Sherwood	356,213	Jan. 18	1313	347	38	266
Loom. Hand-	C. N. Newcomb	373,246	Nov. 15	1465	{ 386 387 }	41	758
Loom-heddle	C. K. Sawyer	363,002	May 17	1336	353	39	735
Loom-heddle-operating mechanism	J. C. Potts	357,096	Feb. 1	500	133	38	515
Loom let-off and take-up mechanism	B. F. Meyer	355,882	Jan. 11	832	218	38	169
Loom let-off mechanism	G. Crompton and H. Wyman	364,807	June 14	872	{ 229 230 }	39	1258
Loom let-off mechanism	T. Lovelidge	355,617	Jan. 4	418	{ 114 115 }	38	83
Loom letting-off motion	J. Pinder	374,083	Nov. 29	2701	{ 725 726 }	41	1015
Loom. Needle-	L. Woodbury	361,801	Apr. 26	2033	526	39	400
Loom-picker	J. A. French	374,893	Dec. 13	1034	271	41	1258
Loom picker-staff check	W. J. Hulford and F. Tillotson	374,835	Dec. 13	950	248	41	1241
Loom shedding mechanism	J. T. Cree	372,840	Nov. 8	849	{ 226 227 }	41	636
Loom shedding mechanism	A. D. Norcross	373,941	Nov. 29	2490	668	41	973
Loom shedding mechanism	W. Z. Woodstock	360,398	Mar. 29	2984	756	38	1487
Loom-shuttle	I. Cross	375,265	Dec. 20	1577	413	41	1369
Loom-shuttle	M. F. Field	360,572	Apr. 5	265	65	39	51
Loom-shuttle	M. F. Field	360,573	Apr. 5	267	65	39	51
Loom-shuttle	M. F. Field	360,574	Apr. 5	267	66	39	51
Loom-shuttle	C. G. Root	372,239	Oct. 25	2181	560	41	450
Loom-shuttle	B. Scarles	359,545	Mar. 15	1626	416	38	1218
Loom-shuttle	B. Scarles	359,546	Mar. 15	1627	417	38	1219
Loom-shuttle	F. H. Stetson	375,104	Dec. 20	1367	356	41	1327
Loom-shuttle	A. B. Taylor	373,913	Nov. 29	2456	660	41	966
Loom-shuttle	C. Widmer	365,111	June 21	1324	351	39	1350
Loom shuttle-box	J. Hollingworth	365,683	June 28	2173	567	39	1524
Loom shuttle-box-operating mechanism	J. Zimmermann	356,267	Jan. 18	1380	{ 365 366 }	38	280
Loom shuttle-guard	J. Bardsley and W. Phillips	372,508	Nov. 1	326	90	41	332
Loom shuttle-guard	J. Sullivan	355,797	Jan. 11	701	183	38	145
Loom-shuttle spindle	I. A. Blood	369,683	Sept. 13	516	143	40	1143
Loom-shuttles. Tension-regulating attachment for	P. Ashby	369,089	Aug. 30	2527	670	40	967
Loom-shuttles. Tension-regulating device for	J. T. Bonney	366,296	July 12	744	202	40	148
Loom-shuttles. Thread-guiding and tension-regulating device for	J. C. Sergeson	363,005	May 17	1339	354	39	736
Loom stop-motion	G. F. Hutchins	357,712	Feb. 15	1417	372	38	703
Loom stopping mechanism	G. E. Taft	365,650	June 28	2117	553	39	1513
Loom take-up mechanism	G. Walsh and J. Boothroyd	355,902	Jan. 11	865	{ 226 227 }	38	175
Loom take-up mechanism	C. Widmer	355,670	Jan. 4	508	135	38	100
Loom-temple	G. Harling	355,818	Jan. 11	732	191	38	150
Loom. Terry-	F. Leake	372,920	Nov. 8	962	261	41	657
Loom. Vertical	M. F. Field	371,569	Oct. 18	1178	307	41	248
Loom weft check or drag	S. S. Walker	355,804	Jan. 11	709	185	38	146
Loom weft stop mechanism	J. McDade	365,012	June 14	1164	{ 305 306 }	39	1311
Looms. Adjustable holder for heddle-frames of	J. Walder	371,007	Oct. 4	405	101	41	81
Looms. Compart-board for Jacquard	G. W. Stafford	369,565	Sept. 6	348	97	40	1101
Looms. Connecting device for harness-straps for	G. H. Avery	363,352	May 24	1810	475	39	837
Looms. Device for supplying warps to	C. Theis	361,793	Apr. 26	2012	524	39	398
Looms. Dobby for	J. Hollingworth	369,941	Sept. 13	891	236	40	1211
Looms for weaving double pile fabrics. Cutting mechanism for	W. Smith	368,247	Aug. 16	1327	350	40	718
Looms for weaving double pile fabrics. Let-off mechanism for	C. Coupland	365,910	July 5	216	55	40	42
Looms. Harness-board for Jacquard	W. G. Northup	373,151	Nov. 15	1321	350	41	732
Looms. Jacquard mechanism for	J. Zimmermann	368,903	Aug. 23	2249	598	40	906
Looms. Mechanism for operating harness in	F. Ott	364,283	June 7	109	31, 32	39	1110
Looms. Pattern-chain for	I. P. Cornog	361,616	Apr. 19	1745	452	39	342
Looms. Pattern device for shuttle-box-operating mechanism for	H. Wyman	364,696	June 14	681	182	39	1225
Looms. Picker-stick and shuttle-cushioner for	J. H. Paige	361,444	Apr. 19	1509	390	39	297
Looms. Positive shuttle-motion for	B. Northup	367,838	Aug. 9	732	197	40	599
Looms. Positive shuttle-motion for	C. Widmer	364,741	June 14	749	199	39	1237
Looms. Positive shuttle-motion for	F. K. Wright	373,423	Nov. 15	1734	457	41	808
Looms. Protective attachment for	G. F. Hutchins	357,713	Feb. 15	1419	373	38	704
Looms. Reed-supporting device for	O. S. Lee	362,980	May 17	1302	345	39	728
Looms. Shuttle-binder for	W. Kothe	373,896	Nov. 29	2437	654	41	962
Looms. Shuttle-box mechanism for	C. H. Knowlton and B. F. Meyer	371,769	Oct. 18	1469	380	41	307
Looms. Shuttle-check for	S. S. Walker	366,358	July 12	831	223	40	164
Looms. Shuttle for narrow-ware	W. Wattie	370,910	Oct. 4	256	64	41	51
Looms. Shuttle-operating mechanism for circular	E. Winckler and J. J. Heilmann	365,216	June 21	1462	{ 385 386 }	39	1378

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Looms. Shuttle-supporting mechanism for	J. C. Brooks	371,299	Oct. 11	798	204	41	164
Looms. Stop mechanism for	D. Whelan	368,177	Aug. 9	1207	323	40	688
Looms. Temple-plate for power-	J. J. Honan	375,159	Dec. 20	1446	378	41	1342
Looms. Warp-beam for	H. Wyman	368,122	Aug. 9	1129	300	40	674
Looms. Weft stop mechanism for	D. Dunn	364,163	May 31	2982	775	39	1067
Loop-closing machine	E. L. Howe	370,143	Sept. 20	1207	{ 319 320 }	{ 40 39 }	1276
Lounge	A. C. Abramson	365,326	June 21	1631	425	39	1408
Lounge	H. Burgess	359,009	Mar. 8	874	222	38	1070
Lounge	G. Hoffman	373,977	Nov. 29	2546	684	41	984
Lounge	J. W. Reynolds	372,089	Oct. 25	1961	505	41	407
Lounge and operating-table. Combined	S. L. McCurdy	367,053	July 26	1773	478	40	360
Low-water alarm and indicator for boilers	C. Hults	358,667	Mar. 1	369	88	38	972
Low-water alarm for steam-boilers	W. J. Kassler	364,940	June 14	1065	278	39	1294
Lozenge-machine	T. Robertson	363,681	May 24	2287	{ 593 594 }	{ 39 38 }	929
Lubricant	J. B. C. Barbanson	359,418	Mar. 15	1438	.....	38	1183
Lubricant. Anti-friction	F. H. Snyder	357,106	Feb. 1	511	.....	38	516
Lubricant-distributor	J. T. Waters	363,565	May 24	2122	550	39	897
Lubricating apparatus. Automatic	J. Ryan	363,682	May 24	2290	{ 594 595 }	{ 39 38 }	929
Lubricating composition	J. Plante	357,227	Feb. 8	712	.....	38	562
Lubricating compound	H. J. Dreher	366,386	July 12	867	.....	40	171
Lubricating loose pulleys	J. L. Bogert	370,527	Sept. 27	1767	470	40	1388
Lubricator:							
See Automatic lubricator.	Journal-lubricator.						
tor.	Locomotive-lubricator.						
Axle-lubricator.	Pulley-lubricator.						
Drilling-machine	Valve-lubricator.						
lubricator.							
Lubricator	F. Bain	360,405	Apr. 5	5	2	39	3
Lubricator	A. T. Ballantine	371,916	Oct. 25	1695	439	41	360
Lubricator	G. W. Bartlett	375,310	Dec. 20	1639	430	41	1381
Lubricator	E. H. Belden	355,499	Jan. 4	266	70	38	54
Lubricator	P. A. Bennett	369,388	Sept. 6	110	33	40	1054
Lubricator	J. G. G. E. Bischoff	368,702	Aug. 23	1971	{ 522 523 }	{ 40 41 }	852
Lubricator	P. Brownley	374,729	Dec. 13	799	{ 209 210 }	{ 41 40 }	1211
Lubricator	J. Bruun	371,818	Oct. 18	1540	398	41	321
Lubricator	B. E. Dupont	368,759	Aug. 23	2053	544	40	867
Lubricator	J. Ellis	368,283	Aug. 16	1386	366	40	730
Lubricator	C. B. Hodges. (Reissue)	10,824	Apr. 5	626	166	39	117
Lubricator	E. P. Hussey	366,396	July 12	879	236	40	174
Lubricator	L. Kaczander	357,931	Feb. 15	1725	{ 450 451 }	{ 38 40 }	760
Lubricator	A. D. Kilborn	369,250	Aug. 30	2722	724	40	1008
Lubricator	S. P. Lathrop	374,977	Dec. 20	1187	309	41	1294
Lubricator	J. N. Lighthall	371,080	Oct. 4	494	124	41	98
Lubricator	J. Lumb	372,159	Oct. 25	2059	527	41	426
Lubricator	E. Lunkenheimer	359,731	Mar. 22	1927	489	38	1289
Lubricator	M. MacMahon	368,774	Aug. 23	2073	549	40	871
Lubricator	E. McCoy	357,491	Feb. 8	1072	283	38	630
Lubricator	W. P. Miller	367,311	July 26	2156	580	40	430
Lubricator	B. N. Payne	358,476	Mar. 1	80	20	38	918
Lubricator	W. P. Phillips	367,059	July 26	1783	481	40	362
Lubricator	J. Powell	365,629	June 28	2092	545	39	1509
Lubricator	J. Powell	372,764	Nov. 8	706	195	41	613
Lubricator	E. S. Ritchie	358,943	Mar. 8	782	196	38	1053
Lubricator	G. Rupley	369,128	Aug. 30	2574	684	40	978
Lubricator	J. Ryan	363,683	May 24	2295	596	39	930
Lubricator	J. Ryan	363,684	May 24	2298	{ 596 597 }	{ 39 38 }	931
Lubricator	H. Schaffstädt and A. Bergen	362,667	May 10	855	234	39	639
Lubricator	J. C. Schellenbaum	372,708	Nov. 8	623	170	41	598
Lubricator	W. Seck and M. Falk	364,378	June 7	231	65	39	1133
Lubricator	E. R. Simpson, S. B. Mott, and M. Speicher.	370,979	Oct. 4	368	91	41	73
Lubricator	G. A. Stannard	356,800	Feb. 1	81	23	38	438
Lubricator	J. L. Willford	360,749	Apr. 5	500	129	39	94
Lubricator	A. Warth	372,997	Nov. 8	1076	{ 287 288 }	{ 41 39 }	677
Lubricator attachment	E. McCoy	361,435	Apr. 19	1497	386	39	294
Lubricator-coupling	J. Ryan	358,074	Feb. 22	1933	510	38	805
Lubricator for steam machinery	G. Z. Clark	366,714	July 19	1332	356	40	269
Lubricator-glasses. Safety-shield for	C. C. Hodges	362,445	May 3	523	146	39	576
Lumber-assorter	H. B. Phillips and W. M. Whaley	369,550	Sept. 6	320	89	40	1095
Lumber-binder	W. Baynes	357,810	Feb. 15	1562	407	38	730
Lumber-binder	A. R. Clark	357,818	Feb. 15	1574	410	38	732
Lumber-boom gap	W. H. Roan	371,788	Oct. 18	1497	386	41	312
Lumber, &c. Device for binding together	J. T. Barber. (Reissue)	10,817	Mar. 15	1724	438	38	1235
Lumber-drier	J. L. Gaskins	360,958	Apr. 12	808	207	39	155
Lumber-drier	J. D. Stanley	367,458	Aug. 2	137	40	40	477
Lumber-drier	C. R. Van Osdel	363,704	May 24	2327	604	39	936
Lumber-piler	C. E. Dunshee	363,287	May 17	1715	{ 449 450 }	{ 39 38 }	810
Lumber-register	J. Thompson	364,063	May 31	2837	736	39	1040
Lunch-box	M. C. Louis	375,495	Dec. 27	1882	{ 492 493 }	{ 41 40 }	1437
Lunch-box. Expansible	J. S. McGuire	375,498	Dec. 27	1886	493	41	1437
Lunch-heater	S. Crowell	366,764	July 19	1399	374	40	281
Macaroni-machine	P. Giovannini	355,926	Jan. 11	894	234	38	182
Machine-brake	J. Barger and J. S. Hilton	360,080	Mar. 29	2506	637	38	1401
Machine-brake	G. Warttinger	363,441	May 24	1932	507	39	860

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Machine-starting device.....	E. A. Damon and J. N. Griswold...	374,349	Dec. 6	257	68	41	1095
Machine-table.....	L. D. Howard.....	356,642	Jan. 25	1929	{ 505 } 506	{ 38 } 39	391
Magnet. Polarized electro.....	J. C. Wilson.....	362,135	May 3	113	34	39	495
Magnetic separator.....	J. Wenström.....	373,211	Nov. 15	1415	{ 373 } 374	{ 41 } 41	749
Magnets. Armature for electro.....	C. A. Gaiser.....	358,343	Feb. 22	2307	610	38	875
Magnets. Tension device for winding electro.....	J. W. Easton.....	375,697	Dec. 27	2180	567	41	1491
Magnifying-glass.....	N. Clark.....	362,492	May 10	596	168	39	594
Mail-bag.....	J. A. Briggs.....	375,311	Dec. 20	1640	430	41	1381
Mail-bag.....	A. A. Eppert.....	374,735	Dec. 13	808	212	41	1214
Mail-bag.....	H. F. Gaines.....	374,790	Dec. 13	887	232	41	1229
Mail-bag.....	A. S. Haines and W. Breidenbach..	374,300	Dec. 6	184	49	41	1081
Mail-bag.....	L. C. Huber.....	371,888	Oct. 18	1652	426	41	343
Mail-bag.....	F. R. Hunt.....	369,111	Aug. 30	2556	679	40	973
Mail-bag.....	C. F. Kizer.....	373,666	Nov. 22	2104	563	41	891
Mail-bag.....	J. C. Lighthouse.....	374,844	Dec. 13	963	{ 251 } 252	{ 41 } 41	1243
Mail-bag.....	F. P. Moss.....	374,845	Dec. 13	964	252	41	1243
Mail-bag.....	W. Roemer.....	374,323	Dec. 6	221	58	41	1087
Mail-bag clamp.....	P. Werum.....	358,905	Mar. 8	734	182	38	1044
Mail-bag fastener.....	S. A. Field.....	363,130	May 17	1509	400	39	770
Mail-bag fastener.....	I. L. Morris.....	374,903	Dec. 13	1051	275	41	1261
Mail-bag fastener.....	G. L. Walton.....	373,321	Nov. 15	1574	417	41	779
Mail-bag fastener and tag-holder. Combined.....	H. N. Ockford.....	374,749	Dec. 13	825	216	41	1217
Mail-bag fastening.....	T. H. Gordon.....	375,446	Dec. 27	1823	477	41	1425
Mail-bag fastening.....	J. Hellings.....	375,551	Dec. 27	1966	512	41	1452
Mail-bag fastening.....	A. J. Morrison.....	373,679	Nov. 22	2119	567	41	895
Mail-bags, trunks, &c. Fastening device for.....	L. Russell.....	375,684	Dec. 27	2161	562	41	1487
Mail-box for newspapers.....	E. A. Dubey.....	369,278	Aug. 30	2761	737	40	1015
Mail-box indicator.....	C. M. Ball and T. J. McTighe.....	363,574	May 24	2134	553	39	900
Mail-box indicator.....	J. P. Tirrell.....	373,207	Nov. 15	1411	372	41	748
Mail-crane.....	W. R. Andrews.....	358,103	Feb. 22	1972	521	38	811
Mail-indicator. Electrical.....	V. A. Krepps.....	358,360	Feb. 22	2330	618	38	879
Mail, parcel, or cash carrier.....	J. F. Muir.....	373,997	Nov. 29	2574	692	41	989
Mail-receiver.....	W. J. Schulthorp.....	365,410	June 28	1762	457	39	1445
Mail-sack.....	W. H. Jones.....	367,408	Aug. 2	73	19	40	464
Mailing vessel or case.....	W. A. Hulbert.....	359,212	Mar. 8	1132	295	38	1119
Mainspring-barrels. Tool for closing.....	W. W. Dudley.....	357,584	Feb. 15	1231	324	38	670
Mainspring-winder.....	J. Stark, Jr.....	356,802	Feb. 1	83	23	38	439
Mainsprings. Device for letting down.....	C. Bickford.....	360,648	Apr. 5	362	91	39	69
Mallet.....	J. H. Alexander.....	356,299	Jan. 18	1436	378	38	290
Malt-cleaning machine.....	J. Quillmann.....	370,493	Sept. 27	1718	{ 455 } 456	{ 40 } 40	1379
Malt-drier.....	F. Kohler and W. A. Chambers....	362,893	May 10	1173	{ 313 } 314	{ 39 } 39	698
Malt-drier.....	D. A. Wallace.....	360,257	Mar. 29	2783	{ 707 } 708	{ 38 } 38	1452
Malt-drying apparatus.....	W. S. Plummer.....	359,284	Mar. 15	1236	{ 321 } 322	{ 38 } 38	1146
Malt-germinating apparatus.....	P. Weinig.....	370,296	Sept. 20	1410	{ 379 } 380	{ 40 } 40	1316
Malt, grain, and other substances. Process of and apparatus for cooling and drying.....	F. W. Wiesebrock.....	374,102	Nov. 29	2726	732	41	1020
Malt-kiln floor.....	T. Lewandowski.....	364,269	June 7	93	27	39	1107
Malt-kiln furnace.....	C. C. Clausen.....	370,931	Oct. 4	289	71	41	58
Malting-machine.....	G. Parker.....	361,642	Apr. 19	1788	463	39	351
Mandolin.....	A. Bini.....	362,417	May 3	487	138	39	569
Mandolin.....	G. B. Durkee.....	368,461	Aug. 16	1633	436	40	779
Mandolins. Manufacture of.....	G. B. Durkee.....	370,732	Sept. 27	2079	552	40	1446
Mangle and wringer. Combined clothes.....	T. Collier.....	363,806	May 31	2471	642	39	970
Mangle. Clothes.....	J. and W. Addison.....	369,675	Sept. 13	507	141	40	1141
Manipulating-rod for bolts, &c.....	J. A. Coultaus.....	357,116	Feb. 1	553	143	38	523
Manipulator and indicator. Hydraulic.....	A. S. Greene.....	375,674	Dec. 27	2145	557	41	1484
Mantel and fire-place lining. Combined.....	W. W. Neuer.....	370,155	Sept. 20	1220	324	40	1279
Mantel-cabinet.....	W. C. Doscher.....	369,103	Aug. 30	2548	676	40	971
Mantel. Heat-radiating.....	Q. S. Backus.....	374,649	Dec. 13	688	181	41	1190
Mantel. Radiating.....	E. Berliner.....	372,449	Nov. 1	244	68	41	517
Mantel. Radiating.....	E. Berliner.....	372,450	Nov. 1	246	68, 69	41	517
Mantel. Sheet-metal.....	W. J. Turl.....	374,718	Dec. 13	784	206	41	1209
Manual motor.....	A. M. Friend.....	364,406	June 7	279	77	39	1141
Manure-distributor.....	S. J. Harrell.....	360,877	Apr. 12	686	180	39	135
Manure-spreader.....	A. Miller.....	359,737	Mar. 22	1934	{ 490 } 491	{ 38 } 38	1290
Manure-spreader.....	A. Miller.....	366,675	July 19	1276	{ 340 } 341	{ 40 } 40	258
Manure-spreader.....	H. Watkins.....	362,048	Apr. 26	2384	622	39	465
Manure-spreader.....	H. Watkins.....	374,134	Nov. 29	2769	{ 744 } 745	{ 41 } 41	1027
Map-case.....	T. Kane.....	358,276	Feb. 22	2221	586	38	858
Map-holder.....	J. Du Shane.....	355,643	Jan. 4	471	126	38	93
Map or chart exhibitor.....	J. H. Sampson.....	364,675	June 14	653	175	39	1219
Marine boiler.....	F. E. Kirby.....	357,010	Feb. 1	373	100	38	491
Marine motor.....	F. Luchini.....	361,305	Apr. 19	1322	{ 339 } 340	{ 39 } 39	262
Marker. Corn-row.....	R. Andrew and J. D. Vendrick.....	365,039	June 21	1209	319	39	1331
Marker. Land.....	E. A. Bachman.....	367,579	Aug. 2	326	93	40	514
Marker. Land.....	F. W. Dunn.....	359,922	Mar. 22	2236	562	38	1344
Marking letters, figures, &c.....	J. P. Scott.....	360,115	Mar. 29	2571	.....	38	1412
Marking-pot.....	J. B. Boomer and W. Strowger.....	365,361	June 28	1684	439	39	1431
Marking-stick.....	C. Fisher.....	371,133	Oct. 4	570	145	41	113
Marking-wheel for transferring patterns.....	W. Heidenhain.....	365,129	June 21	1354	358	39	1355
Mash-tub.....	W. Greisser.....	368,887	Aug. 23	2226	{ 592 } 593	{ 40 } 40	901

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Mash-tubs. Stirrer for	C. Zies	364,622	June 7	579	155	39	1196
Masher. Potato	T. F. Timby	357,693	Feb. 15	1390	366	38	698
Mashing apparatus	J. P. Doelfel	366,573	July 12	1123	301	40	224
Mashing. Apparatus for	J. P. Doelfel and J. C. G. Hüpfel ..	368,076	Aug. 9	1074	286	40	663
Mask. Base-ball	R. Reach	364,543	June 7	488	{ 131 132 }	{ 39 41 }	1179
Masts. Manufacturing hollow	J. W. Mansfield	371,204	Oct. 11	668	171	41	140
Mat: See Door-mat. Seat-mat. Oil-press mat. Wire mat.							
Mat	F. Greenland. (Reissue)	10,889	Dec. 20	1662	436	41	1386
Match-box	R. Heller	356,405	Jan. 18	1583	416	38	318
Match-box	O. Offrell	371,621	Oct. 18	1250	325	41	262
Match-machine	L. Kittinger	356,719	Jan. 25	2023	532	38	409
Match-making machine	C. Martin	356,485	Jan. 25	1707	{ 445 446 }	{ 38 39 }	349
Match-safe and candlestick	N. Jensen	367,813	Aug. 9	698	189	40	591
Match-sticks. Machine for unloading and unbunch- ing	W. H. H. Sisum	355,416	Jan. 4	163	43	38	33
Matches or similar articles. Receptacle for	W. E. Richardson	371,278	Oct. 11	770	{ 197 198 }	{ 41 42 }	159
Matching-machine. Wave-edge	C. F. Ritchel	373,536	Nov. 22	1923	510	41	855
Matting. India	G. J. Bicknell	366,198	July 12	609	166	40	124
Mattress	K. Brooks	364,797	June 14	859	225	39	1255
Mattress	B. F. Farrar	366,312	July 12	772	208	40	154
Mattress	J. M. Hinsdill	371,938	Oct. 25	1724	446	41	366
Mattress. Folding woven-wire	F. Kunkel and M. Van Sas	357,558	Feb. 8	1186	312	38	652
Mattress for water-beds	H. H. Judson	370,064	Sept. 20	1088	287	40	1254
Mattress-protector	D. W. McKinnon	371,342	Oct. 11	862	221	41	176
Mattress. Spring	J. H. Ackley	373,711	Nov. 22	2168	580	41	904
Mattress. Spring	J. S. Taylor	356,339	Jan. 18	1499	394	38	302
Mattress. Woven-wire	C. W. Brown	357,697	Feb. 15	1395	367	38	699
Mattresses. Adjustable support for wire	J. S. Wertz	375,432	Dec. 27	1801	471	41	1421
Mattresses. Device for stuffing	J. R. De Haven	368,385	Aug. 16	1507	402	40	755
Meal-cake-molding box	W. Krutzsch	361,879	Apr. 26	2146	{ 556 557 }	{ 39 40 }	423
Measure	E. Truman	367,474	Aug. 2	159	45	40	482
Measure and register. Lumber	J. U. S. Sands	370,212	Sept. 20	1301	347	40	1294
Measure and tally. Combined grain	O. D. McDaniel	374,613	Dec. 13	640	168	41	1179
Measure case. Tape	W. Keuffel	363,070	May 17	1424	377	39	753
Measure for gloves. Hand	L. P. Valiquet	371,645	Oct. 18	1281	332	41	268
Measure. Liquid	J. P. Müller	362,393	May 3	447	124	39	562
Measure. Liquid	J. P. Müller	368,545	Aug. 16	1749	465	40	800
Measure. Lumber	F. S. Baldwin	367,261	July 26	2080	562	40	417
Measure. Registering tape	W. B. Hunt	355,320	Jan. 4	37	10	38	9
Measure. Rotary line	A. Stoner	361,791	Apr. 26	2010	523	39	398
Measure. Scoop or spoon	H. Wettstein	356,514	Jan. 25	1744	454	38	355
Measure. Shoe-maker's	A. S. Adler	365,221	June 21	1470	388	39	1379
Measure. Shoe-maker's	A. J. Delander	373,886	Nov. 29	2417	649	41	959
Measure. Tailor's	G. Frega	362,579	May 10	716	199	39	614
Measure. Tailor's	H. A. Jackson	361,292	Apr. 19	1300	{ 333 334 }	{ 39 40 }	258
Measurer and tally. Grain	B. C. King and G. H. Boon	366,962	July 19	1654	444	40	329
Measures. Drainer for liquid	H. Pannill	370,648	Sept. 27	1947	515	40	1422
Measuring and marking cloth. Machine for	J. Farmer	355,517	Jan. 4	286	76	38	57
Measuring and weighing machine. Coin-operated ..	H. Paddock	369,073	Aug. 30	2505	664	40	964
Measuring apparatus. Hat	C. Bergmann	372,295	Nov. 1	15	4	41	473
Measuring apparatus. Krause	C. Zoller and F. Schimper	371,724	Oct. 18	1408	364	41	295
Measuring apparatus. Oil	B. Droeger	372,606	Nov. 1	472	127	41	559
Measuring-canister	D. T. McKinnon	360,608	Apr. 5	312	76, 77	39	60
Measuring cloth. Device for	C. Tuxbury	375,026	Dec. 20	1252	327	41	1305
Measuring cloth in bolts. Apparatus for	A. B. Cross	372,660	Nov. 8	559	153	41	585
Measuring device. Cloth	J. Q. Brown	372,202	Oct. 25	2125	546	41	438
Measuring device. Rope	W. S. Reamer	364,856	June 14	941	249	39	1271
Measuring device. Rope	J. W. Tindall	357,136	Feb. 1	584	150	38	528
Measuring diameters of cylinders. Gage for	E. C. Willey	355,365	Jan. 4	99	27	38	21
Measuring fabrics and printing the measures } thereon. Machine for }	A. H. Sutton	359,368	Mar. 15	1350	{ 348 349 }	{ 38 39 }	1167
Measuring-jacket	J. Weir	358,903	Mar. 8	731	181	38	1043
Measuring machine. Cloth	E. M. Bliss	370,175	Sept. 20	1255	{ 333 334 }	{ 40 41 }	1286
Measuring machine. Cloth	J. C. Dale	375,268	Dec. 20	1581	414	41	1370
Measuring machine. Cloth	N. W. Hawkenson	357,672	Feb. 15	1362	358	38	692
Measuring machine. Cloth	C. L. McKesson	368,410	Aug. 16	1547	413	40	763
Measuring milk, &c. Can or pot for	J. Cuthbertson	366,380	July 12	860	231	40	170
Measuring oil-tank	M. J. Lindsay and D. M. Ross	361,828	Apr. 26	2058	{ 535 536 }	{ 39 40 }	407
Measuring rack. Adjustable wood	H. L. Broughton	356,917	Feb. 1	244	67	38	466
Measuring-rack for goods in the piece	W. C. Newton and J. G. Ferrill	357,534	Feb. 8	1143	299	38	643
Measuring-rack	W. H. Hinds and E. N. Edmonds ..	365,599	June 28	2054	536	39	1502
Measuring textile fabrics, &c. Machine for	A. H. Sutton and P. H. Watson	359,579	Mar. 15	1689	{ 431 432 433 }	{ 38 39 40 }	1229
Measuring textile fabrics, &c. Machine for	P. H. Watson	359,583	Mar. 15	1698	{ 434 435 }	{ 38 39 }	1230
Measuring the flow of liquids in conduits. Indicator for	C. B. Dudley	375,054	Dec. 20	1288	336	41	1312
Measuring the viscosity of liquids. Instrument for ..	G. H. Perkins	358,877	Mar. 8	688	171	38	1035
Measuring the weight of loads	A. E. Brown	368,063	Aug. 9	1053	282	40	659
Measuring-vessel	L. A. Goodrich	361,691	Apr. 26	1868	484	39	373
Measuring-vessel	V. A. Reeves	371,276	Oct. 11	768	197	41	159
Measuring-vessel	J. F. Segog	374,759	Dec. 13	842	221	41	1220
Measuring-vessel	G. H. Smith	373,537	Nov. 22	1925	510	41	855
Measuring-vessel. Metallic	B. F. Caldwell and W. F. Peterson ..	370,681	Sept. 27	1994	530	40	1431

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Meat-cutter	J. Gérard	368,824	Aug. 23	2139	567	40	883
Meat-cutter	R. B. Pumphrey	367,763	Aug. 2	619	167	40	567
Meat-cutter	A. Shepard	369,744	Sept. 13	588	160	40	1155
Meat-cutter	A. Shepard	369,745	Sept. 13	590	160	40	1155
Meat-cutter	G. H. Stallman	365,206	June 21	1451	{ 382 383 }	39	1375
Meat-cutter	O. D. Woodruff	368,041	Aug. 9	1021	275	40	654
Meat-cutter	O. D. Woodruff	374,568	Dec. 6	578	151	41	1158
Meat cutting and mixing machine	W. G. Bell	359,837	Mar. 22	2095	{ 529 530 }	38	1319
Meat-cutting machine	L. Fadum	363,512	May 24	2044	532	39	883
Meat-cutting machine	C. Gabelman	359,069	Mar. 8	946	{ 241 242 }	38	1084
Meat-cutting machine	C. W. Hottmann	363,465	May 24	1966	514	39	865
Meat, fowl, &c. Basting	G. W. Dugard	358,968	Mar. 8	814	206	38	1059
Meat-hook	J. M. Koeberle	367,302	July 26	2145	577	40	428
Meat-hook support or bracket	J. Finnegan	361,154	Apr. 12	1109	281	39	210
Meat-mincing machine	P. Billingham	362,484	May 10	587	165	39	592
Meat or bale hook	A. W. Sibley and J. H. Combs	364,967	June 14	1102	287	39	1301
Meat-preserving implement	E. Hollenbeck	374,600	Dec. 13	625	163	41	1177
Meat-spreader	J. Folger	370,615	Sept. 27	1902	505	40	1414
Meats. Covering for	E. Metzger	367,425	Aug. 2	95	25	40	469
Meats. Curing and preserving	G. Holgate	356,766	Feb. 1	34	10	38	430
Meats. Instrument for curing	J. J. Bailey	365,895	July 5	193	49	40	38
Mechanical device	C. A. Hatter	357,596	Feb. 15	1248	328	38	673
Mechanical digger	M. R. Pryor	357,536	Feb. 8	1146	300	38	644
Mechanical movement	A. C. Arneson	360,194	Mar. 29	2693	680	38	1435
Mechanical movement	D. H. Bennett	371,024	Oct. 4	425	106	41	85
Mechanical movement	J. Berry	358,768	Mar. 1	505	124	38	997
Mechanical movement	J. S. Brown	367,888	Aug. 9	803	217	40	613
Mechanical movement	E. B. Cox and S. Salmon	369,233	Aug. 30	2700	717	40	1003
Mechanical movement	R. E. Feldges	368,083	Aug. 9	1081	288	40	665
Mechanical movement	R. F. Fleak	367,340	July 26	2199	590	40	439
Mechanical movement	W. L. Grout and E. L. Bowers	373,525	Nov. 22	1909	506	41	853
Mechanical movement	R. H. Isbell	366,774	July 19	1412	377	40	283
Mechanical movement	A. I. Jacobs	361,162	Apr. 12	1121	283	39	213
Mechanical movement	S. Lake	363,472	May 24	1982	517	39	870
Mechanical movement	M. W. Long	366,331	July 12	796	215	40	158
Mechanical movement	A. Nelson	374,423	Dec. 6	359	94, 95	41	1115
Mechanical movement	E. E. Orrell	357,499	Feb. 8	1084	286	38	633
Mechanical movement	G. Potts	361,372	Apr. 19	1414	365	39	279
Mechanical movement	J. H. Smallwood	373,317	Nov. 15	1566	415	41	777
Mechanical movement	H. K. Whitner	363,103	May 17	1472	390	39	762
Mechanical movement	S. B. Wilkins	362,564	May 10	694	194	39	611
Mechanical power. Device for transmitting	F. G. Tallerdar	359,107	Mar. 8	1000	257	38	1094
Medical compound	L. Blumentahl and J. G. Steele	363,448	May 24	1941	.....	39	861
Medical compound	L. B. Hoppel	375,706	Dec. 27	2191	.....	41	1493
Medical compound	J. P. Jones	367,406	Aug. 2	71	.....	40	464
Medical compound and confection. Combined	S. G. Armstrong	366,992	July 19	1692	.....	40	336
Medical compound for asthma, &c	D. G. Nichols	374,491	Dec. 6	459	.....	41	1134
Medical compound for dyspepsia, &c	A. Marx	375,173	Dec. 20	1462	.....	41	1346
Medicating water and administering the same. Apparatus for	L. A. and C. C. Harker	373,932	Nov. 29	2477	665	41	970
Medicine case or satchel	D. L. De Myers	369,438	Sept. 6	176	51	40	1065
Medicine-case. Physician's	A. Marquis and H. Hahn	372,812	Nov. 8	809	216	41	629
(Medicine.) Cough remedy	D. Basch	372,952	Nov. 8	1007	.....	41	664
(Medicine.) Cough remedy	C. Haycock	370,191	Sept. 20	1278	.....	40	1290
Medicine or merchandise case	F. O. Pease	367,317	July 26	2163	582	40	432
Medicine-package	H. M. Beidler	364,623	June 7	580	155	39	1197
(Medicine.) Remedy for diseases of the liver, &c	A. Woodard	375,112	Dec. 20	1378	.....	41	1329
(Medicine.) Tonic pill	S. Loyd	356,723	Jan. 25	2029	.....	38	410
Memorandum-holder and perpetual calendar. Combination	J. W. Lilley	367,217	July 26	2007	542	40	404
Merchandise. Device for exhibiting	J. H. Schoonmaker	360,114	Mar. 29	2570	653	38	1412
Metal. Apparatus for making and transferring pig	J. R. and L. A. Sell	362,670	May 10	858	{ 234 235 }	39	640
Metal. Apparatus for making wire rods from fluid	C. F. Washburn and F. H. Daniels	362,688	May 10	886	241	39	645
Metal articles. Machine for dressing the surfaces of	T. Baum	362,054	May 3	4	2, 3	39	474
Metal articles. Ornamenting hollow	R. H. Budde	362,815	May 10	1063	289	39	678
Metal banding implement	H. S. Bacon	366,293	July 12	742	201	40	148
Metal bars. Die for forming grooved	W. A. McCool	364,125	May 31	2925	759	39	1056
Metal bars. Machine for shearing	C. E. Roberts	358,884	Mar. 8	702	174	38	1038
Metal bars. Upsetting and shaping	G. H. Sellers	372,571	Nov. 1	421	{ 113 114 }	41	551
Metal beams or bars. Device for bending	Z. P. Boyer	370,371	Sept. 27	1527	409	40	1345
Metal-bending machine	T. W. Stewart	375,512	Dec. 27	1903	498	41	1441
Metal-bending mechanism	L. Dow	355,304	Jan. 4	17	5	38	5
Metal box	H. D. B. Wall	368,985	Aug. 30	2375	631	40	939
Metal-crimping machine	F. R. Packham	369,876	Sept. 13	791	211	40	1193
Metal-cutting machine	B. J. Malone	360,032	Mar. 29	2421	{ 614 615 }	38	1385
Metal-cutting shears	E. H. Watrous	370,295	Sept. 20	1409	379	40	1315
Metal. Device for clamping plates or sheets of	S. McCarter	373,672	Nov. 22	2111	564	41	893
Metal-drawing machine	W. A. McCool	364,126	May 31	2925	759	39	1056
Metal fabric. Ornamental	J. Moche	360,457	Apr. 5	88	23	39	18
Metal-founding machine	H. Tabor	365,710	June 28	2242	577	39	1530
Metal-founding machine	H. Tabor	369,214	Aug. 30	2676	711	40	999
Metal-grinding machine	A. A. Weimer	372,833	Nov. 8	837	223	41	634
Metal. Machine for bending and upsetting	H. F. Dosme-Chatain and A. Guibert	357,186	Feb. 8	660	171	38	552
Metal. Machine for cutting	L. L. Hazen	365,517	June 28	1929	502	39	1478
Metal. Machine for notching strips of	J. K. Proctor and J. H. Knowles	365,020	June 14	1174	308	39	1313
Metal. Mechanism for forming ingots, bars, rods, &c., from fluid	F. H. Daniels	359,348	Mar. 15	1319	{ 342 343 }	38	1160

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Metal ornamentation.....	C. Berlin.....	358,767	Mar. 1	504	124	38	997
Metal. Plant for making wire rods from fluid.....	C. F. Washburn and F. H. Daniels.....	362,687	May 10	883	{ 240 241	{ 39	645
Metal plates and other metal surfaces. Cleaning, preparing, and coating.....	F. J. Clamer.....	363,593	May 24	2160	560	39	905
Metal plates. Cooling.....	H. Aiken.....	369,154	Aug. 30	2603	691	40	984
Metal plates. Machine for bending and flanging.....	W. Kent.....	357,716	Feb. 15	1423	{ 373 374	{ 38	704
Metal roll.....	T. Handloser.....	375,352	Dec. 27	1696	446	41	1400
Metal rollers. Machine for corrugating.....	G. J. Fritz.....	369,239	Aug. 30	2708	719	40	1005
Metal rolls. Apparatus for transferring the products of.....	F. H. Daniels.....	369,503	Sept. 6	254	71, 72	40	1082
Metal-shears.....	W. J. Bayrer.....	372,784	Nov. 8	752	203	41	619
Metal-shears.....	W. J. Bayrer.....	372,785	Nov. 8	753	203	41	620
Metal-shears.....	J. Riber.....	367,846	Aug. 9	745	201	40	602
Metal-slitting machine.....	J. Vermeulen.....	369,669	Sept. 6	496	137	40	1129
Metal surfaces. Ornamenting.....	W. Hyland.....	360,387	Mar. 29	2972	753	38	1485
Metal wheel.....	J. R. Little.....	361,637	Apr. 19	1781	461	39	350
Metal-working machine. Compound.....	H. Goodenow.....	356,118	Jan. 18	1189	315	38	244
Metal-working machine. Compound.....	E. A. Oliver.....	367,658	Aug. 2	447	124	40	536
Metal-working machine. Compound.....	L. Olsen and N. E. Burns.....	369,872	Sept. 13	786	209	40	1192
Metals and utilizing the same for metallurgical purposes. Producing silicious.....	C. Heusler.....	358,662	Mar. 1	359	.....	38	970
Metals and utilizing the same for metallurgical purposes. Producing silicious.....	C. Heusler. (Reissue).....	10,852	July 19	1722	.....	40	342
Metals by the direct application of the electric current. Process of and apparatus for working.....	N. De Benardos and S. Olszewski.....	363,320	May 17	1762	{ 461 462	{ 39	819
Metals. Electric welding and tempering.....	E. E. Ries.....	370,282	Sept. 20	1388	373	40	1311
Metals from ores. Extracting.....	J. A. Mathieu.....	359,165	Mar. 8	1067	.....	38	1108
Metals from ores or alloys. Apparatus for separating.....	H. R. Cassel.....	360,852	Apr. 12	647	171	39	128
Metals from ores or alloys. Apparatus for separating.....	H. R. Cassel.....	360,853	Apr. 12	649	171	39	128
Metals from ores or alloys by electrolysis. Apparatus for separating.....	H. Liepmann.....	362,022	Apr. 26	2354	614	39	459
Metals from their ores. Apparatus for agitating solutions in the leaching of.....	F. F. Hunt.....	370,871	Oct. 4	178	47	41	35
Metals from their ores. Separating.....	D. W. Birmingham.....	370,366	Sept. 20	1516	406	40	1336
Metals. Machine for drawing.....	H. R. Kennedy.....	369,290	Aug. 30	2781	741	40	1019
Metals. Machine for testing the friction of.....	E. L. Post.....	358,164	Feb. 22	2068	544	38	828
Metals. Press for the pinching, shearing, &c., of.....	A. Beaudry.....	362,566	May 10	697	195	39	611
Metals. Uniting.....	F. A. Godfrey.....	359,319	Mar. 15	1280	332	38	1154
Metallic articles. Machine for compressing and finishing circular.....	R. Bagaley.....	371,813	Oct. 18	1533	396	41	320
Metallic bodies. Constructing compound.....	E. Wheeler.....	361,799	Apr. 26	2020	525	39	399
Metallic fastening.....	F. Bean.....	365,898	July 5	196	50	40	38
Metallic table for machine-tools.....	F. W. Taylor.....	359,369	Mar. 15	1353	350	38	1167
Metallic wheel.....	W. P. Bettendorf.....	374,575	Dec. 13	590	154	41	1170
Metallic wheel.....	W. E. Gatewood.....	372,370	Nov. 1	129	39	41	495
Meter: See Electric meter. Piston meter. Gas-meter. Rotary meter. Grain-meter. Water-meter. Liquid-meter.							
Metronome.....	R. Zeckwer.....	360,550	Apr. 5	234	58	39	45
Micrometer depth-gage.....	J. B. Renshaw.....	356,892	Feb. 1	213	60	38	460
Micrometer-gage.....	A. H. Emery.....	361,055	Apr. 12	951	240	39	181
Micrometer-gage.....	A. H. Emery.....	362,149	May 3	131	39	39	499
Micrometer-gage.....	A. H. Emery.....	364,913	June 14	1023	268	39	1256
Micrometer-gage.....	J. Moffitt.....	369,357	Sept. 6	71	20	40	1047
Micrometer-gage.....	F. Mossberg.....	356,726	Jan. 25	2033	{ 534 535	{ 38	410
Micrometer-gage.....	F. Spaulding.....	368,554	Aug. 16	1763	468	40	803
Micrometer-gage.....	J. P. B. Wells.....	373,705	Nov. 22	2160	578	41	903
Micrometer-gage.....	G. E. Whitehead.....	375,688	Dec. 27	2166	563	41	1488
Micrometer-gage.....	A. E. Whitmore.....	363,709	May 24	2334	605	39	937
Micrometer-gage for internal and external measurements.....	A. H. Emery.....	361,056	Apr. 12	952	241	39	181
Micrometer pipe-gage.....	D. G. Brown.....	368,563	Aug. 16	1775	471	40	806
Microscope. Invertible.....	E. Bausch.....	373,634	Nov. 22	2059	549	41	881
Microtelephone.....	C. Clamond.....	372,455	Nov. 1	251	70	41	518
Middlings-purifier.....	H. E. Barnard and J. B. Cornwall.....	374,388	Dec. 6	306	81, 82	41	1105
Middlings-purifier.....	G. A. Gilbert and J. Gordon.....	372,308	Nov. 1	33	11	41	478
Middlings-purifier.....	A. Hunter.....	358,669	Mar. 1	372	88	38	972
Middlings-purifier.....	W. S. Parker.....	367,116	July 26	1865	{ 504 505	{ 40	377
Middlings-purifier.....	F. Prinz.....	375,194	Dec. 20	1487	390	41	1352
Milk and creaming can. Combined.....	D. H. Brown.....	366,148	July 5	541	146	40	102
Milk and separating cream. Device for cooling.....	N. Moes.....	370,205	Sept. 20	1293	{ 344 345	{ 40	1293
Milk-boiler.....	C. D. Salfeld.....	370,974	Oct. 4	357	88	41	71
Milk-can.....	E. Moore.....	358,468	Mar. 1	64	17	38	915
Milk-can.....	E. Pabst.....	359,401	Mar. 15	1409	361	38	1177
Milk-can cover.....	H. B. Haigh.....	363,517	May 24	2049	533	39	884
Milk-can cover.....	O. Smeader.....	363,090	May 17	1452	384	39	758
Milk. Can for measuring and retailing.....	O. R. Tower.....	368,257	Aug. 16	1345	355	40	722
Milk. Centrifugal apparatus for testing.....	G. De Laval.....	365,120	June 21	1341	355	39	1353
Milk-cooler.....	W. H. Hickey.....	364,648	June 14	618	167	39	1212
Milk-cooler.....	G. R. Jowell.....	360,808	Apr. 5	581	152	39	109
Milk-cooler.....	H. Kennen.....	359,261	Mar. 15	1201	313	38	1140
Milk-cooler.....	T. W. B. Kirkpatrick.....	373,462	Nov. 22	1791	476	41	832
Milk-cooler.....	H. Mannering.....	368,726	Aug. 23	2010	532	40	859
Milk-cooler.....	A. McLeod.....	373,242	Nov. 15	1462	385	41	757
Milk-cooler.....	L. R. Oakes.....	370,968	Oct. 4	346	86	41	69

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Milk-cooler.....	A. J. Orr.....	356,884	Feb. 1	203	57	38	459
Milk cooling and straining device.....	L. S. Howard.....	370,870	Oct. 4	177	47	41	35
Milk. Preparing powdered.....	J. Carnrick.....	357,465	Feb. 8	1039	275	38	624
Milk. Preserving.....	A. Brin.....	361,045	Apr. 12	941	238	39	178
Milk. Preserving.....	K. G. Dahl.....	364,579	June 7	531	-----	39	1188
Milk. Preserving.....	J. Meyenberg.....	358,213	Feb. 22	2135	-----	38	842
Milk-separators. Journal for.....	P. Peterson.....	359,030	Mar. 8	899	229	38	1075
Milk. Testing.....	G. De Laval.....	369,841	Sept. 13	734	-----	40	1182
Milker. Cow.....	E. B. Douglass.....	361,213	Apr. 12	1195	303	39	226
Milker. Cow.....	A. A. Durand.....	372,406	Nov. 1	180	51	41	504
Milker. Cow.....	P. M. Hobbs.....	370,539	Sept. 27	1782	475	40	1391
Milking-instrument.....	E. M. Knollin.....	371,768	Oct. 18	1468	379	41	307
Milking machine. Cow.....	L. Beyer and A. E. Rohde.....	366,810	July 19	1455	{ 389 } 390	{ 40 }	291
Mill:							
<i>See</i> Cane-crushing mill. Grinding-mill.							
Cider-mill. Grinding or pulverizing							
Cider and wine mill. mill.							
Crushing-mill. Pug-mill.							
Crushing and grind- Pulp-mill.							
ing mill. Rice-mill.							
Crushing or pulver- Roller-mill.							
izing mill. Roller reducing-mill.							
Curd-mill. Rolling-mill.							
Fanning-mill. Saw-mill.							
Feed-mill. Seed-mill.							
Flour-mill. Stone-saw mill.							
Grain cleaning and separating mill.							
Mill-building.....	S. Haines.....	371,576	Oct. 18	1191	310	41	250
Mill-rolls. Feeder for.....	G. W. Combs.....	373,724	Nov. 22	2184	584	41	907
Mill-stock feeder.....	C. F. Kendall.....	374,682	Dec. 13	730	191	41	1199
Milling-machine.....	A. H. Brainard.....	367,954	Aug. 9	904	{ 244 } 245	{ 40 }	631
Milling-machine.....	F. Holz and G. A. Mueller.....	362,082	May 3	40	12	39	480
Milling machine. Die.....	F. C. Whitcomb.....	361,851	Apr. 26	2102	545	39	414
Milling machine. Nut.....	C. E. Roberts.....	355,718	Jan. 11	583	{ 152 } 153	{ 38 }	124
Mincing and filling machine.....	T. Williams, Jr.....	366,706	July 19	1318	{ 353 } 354	{ 40 }	267
Mincing-knife.....	G. J. Dickson.....	358,022	Feb. 22	1850	489	38	789
Mincing-knife.....	J. F. Foster.....	375,483	Dec. 27	1869	488	41	1434
Mine-door-operating mechanism.....	T. Carmichael.....	358,381	Feb. 22	2361	627	38	885
Mine-shafts. Device for operating the doors of.....	P. Steves.....	373,105	Nov. 15	1240	330	41	718
Mines. Device for automatically opening and shut- ting doors in coal.....	J. Case and J. A. Whitaker.....	363,985	May 31	2737	709	39	1019
Mines. Timber structure for.....	G. J. Goodhue.....	358,261	Feb. 22	2198	579	38	853
Miner's combination-box.....	J. H. Kirby and G. Fraser.....	371,592	Oct. 18	1208	315	41	253
Miner's outfit.....	E. Williams, Jr., and D. E. Keller.....	366,907	July 19	1533	423	40	316
Miner's safety-box.....	J. Hargraves.....	368,471	Aug. 16	1647	439	40	782
Miner's tool for breaking down coal.....	J. Haag.....	367,807	Aug. 9	693	187	40	590
Mineral wool. Composition for.....	R. D. A. Parrott.....	372,486	Nov. 1	295	-----	41	527
Mining-cage.....	G. H. Ramsay.....	356,208	Jan. 18	1303	{ 344 } 345	{ 38 }	264
Mining coal, &c. Machine for.....	P. A. Arp.....	374,137	Nov. 29	2776	746	41	1028
Mining coal. Wedge for.....	J. O. Watson and C. A. Sipe.....	356,564	Jan. 25	1818	475	38	369
Mining-drill.....	J. R. Powell and W. D. Lewis.....	358,479	Mar. 1	85	21	38	919
Mining-drill.....	W. Thornton.....	367,472	Aug. 2	156	45	40	482
Mining-machine.....	B. A. Legg. (Reissue).....	10,818	Mar. 15	1725	{ 438 } 439	{ 38 }	1235
Mining-machine.....	B. A. Legg.....	374,900	Dec. 13	1048	{ 274 } 275	{ 41 }	1260
Mining-machine.....	M. F. McNelly.....	356,488	Jan. 25	1711	{ 446 } 447	{ 38 }	349
Mining-machine.....	S. B. Stine.....	356,699	Jan. 25	1998	525	38	404
Mining machine. Coal.....	S. McAllister.....	373,081	Nov. 15	1209	322	41	712
Mining machine. Portable electric coal.....	J. B. Sneathen, A. Michaels, and M. A. Michales.....	375,390	Dec. 27	1744	458	41	1410
Mining pan or settler.....	J. E. Paramore.....	357,852	Feb. 15	1623	422	38	741
Mining purposes. Drill for.....	W. H. Larimer.....	365,925	July 5	242	64	40	47
Minnow-boat.....	E. P. Owsley.....	367,056	July 26	1778	{ 479 } 480	{ 40 }	361
Minute-glass signal.....	S. Smith.....	366,265	July 12	709	192	40	142
Mirror.....	P. Hufeland.....	365,183	June 21	1423	375	39	1369
Mirror.....	F. W. Levering.....	365,264	June 21	1542	402	39	1391
Mirror.....	P. Wiederer.....	356,515	Jan. 25	1745	455	38	356
Mirror.....	P. Wiederer.....	361,386	Apr. 19	1433	370	39	282
Mirror and bedstead. Combined.....	C. Brothers.....	356,303	Jan. 18	1441	379	38	291
Mirror. Folding.....	P. Wiederer.....	363,102	May 17	1471	389	39	762
Mirror for obtaining true or positive reflections.....	J. J. Hooker.....	370,623	Sept. 27	1914	508	40	1416
Mirror. Hand.....	P. Wiederer.....	357,352	Feb. 8	876	230	38	593
Mirror. Lady's shoe.....	S. Goodman.....	360,520	Apr. 5	189	46	39	37
Mirror-setting.....	J. F. Chatellier.....	367,363	Aug. 2	15	4	40	454
Mirror. Triplicate.....	J. Saltar, Jr.....	369,740	Sept. 13	584	159	40	1154
Mirrors. Apparatus for silvering glass in the manu- facture of.....	C. Laval.....	375,640	Dec. 27	2095	545	41	1476
Missile-projector. Spring.....	W. M. Jackson.....	372,981	Nov. 8	1051	281	41	673
Miter-box.....	M. Bretherton.....	359,663	Mar. 22	1827	464	38	1271
Miter-box.....	J. R. Brewster and O. E. Williams.....	369,770	Sept. 13	624	169	40	1161
Miter-box.....	A. Crum.....	367,704	Aug. 2	520	143	40	549
Miter-box.....	E. L. Gaylord.....	374,868	Dec. 13	998	261	41	1250
Miter-box.....	A. G. Johnson.....	366,842	July 19	1506	403	40	300
Miter-box.....	J. W. Rochford.....	367,849	Aug. 9	749	201	40	602
Miter-clamp.....	E. L. Miller and F. Berg.....	374,264	Dec. 6	128	33	41	1071

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Miter-clamp.....	G. F. Newell.....	371,349	Oct. 11	871	224	41	178
Miter-clamp. Adjustable.....	A. J. Linney.....	370,485	Sept. 27	1701	451	40	1377
Miter or bevel joint.....	C. M. Merritt.....	372,695	Nov. 8	609	166	41	595
Mitering-machine.....	J. T. Criswell.....	363,119	May 17	1496	396	39	767
Mitering-machine.....	M. C. Patrick.....	356,326	Jan. 18	1476	389	38	297
Mitering-machine.....	S. Waller.....	360,630	Apr. 5	340	85	39	65
Mitten.....	C. Freschl.....	373,281	Nov. 15	1513	399	41	767
Mitten and sleeve for garments. Combined.....	G. M. Wright.....	361,250	Apr. 12	1245	318	39	237
Mixer:							
See Cake-mixer.							
Mixing-machine.....	R. M. Hunter.....	370,335	Sept. 20	1464	393	40	1326
Mixing-machine.....	J. H. Ordway.....	358,290	Feb. 22	2239	590	38	862
Moccasin.....	E. H. R. Hall.....	362,507	May 10	617	174	39	597
Mold:							
See Bushing-mold. Glass-mold.							
Button-mold. Handle-bending mold.							
Car-wheel mold. Heel-mold.							
Chill-mold. Ingot-mold.							
Cigar-mold. Pipe-mold.							
Clock-case mold. Potter's mold.							
Furnace-mold. Type-mold.							
Mold.....	E. Wheeler.....	361,798	Apr. 26	2019	525	39	399
Mold.....	W. Whiteland.....	360,639	Apr. 5	352	88	39	67
Mold-shaping apparatus.....	J. Fleming.....	363,620	May 24	2204	571	39	913
Molds for twisted articles. Apparatus for making.....	G. F. Stearns.....	356,430	Jan. 18	1622	425	38	324
Molders' flasks. Guide-pin for.....	A. H. Garrett.....	371,837	Oct. 18	1572	406	41	328
Molder's pot.....	R. A. Regester.....	370,159	Sept. 20	1226	326	40	1280
Molder's riddle.....	C. Truesdale.....	373,382	Nov. 15	1672	444	41	797
Molding.....	J. Parmelee.....	366,869	July 19	1536	412	40	306
Molding and stave machine. Wood.....	C. L. Goehring.....	356,066	Jan. 11	1099	291	38	221
Molding appliance.....	J. Parmelee.....	374,000	Nov. 29	2577	693	41	990
Molding articles under pressure from plastic materials.	J. Naylor.....	372,758	Nov. 8	697	192	41	611
Molding emery or other plastic wheels. Machine for.	C. Heaton.....	374,065	Nov. 29	2673	718	41	1009
Molding in sand. Apparatus for.....	W. A. Miles.....	358,982	Mar. 8	834	210	38	1063
Molding kettles, &c., with hinge-pins.....	D. M. McLean.....	357,778	Feb. 15	1529	398	38	723
Molding-machine.....	G. Guntz.....	360,011	Mar. 29	2386	603	38	1378
Molding-machine.....	F. G. Johnson.....	362,513	May 10	625	176	39	599
Molding-machine.....	H. Reynolds.....	358,220	Feb. 22	2142	565	38	843
Molding-machine.....	A. L. Stevens.....	360,119	Mar. 29	2578	654	38	1413
Molding-machine. Bung-bush.....	A. G. Anderson.....	360,404	Apr. 5	3	1	39	3
Molding machine. Marble.....	H. B. Riehle and M. F. Hatcher.....	362,999	May 17	1332	352	39	734
Molding machine. Sand.....	S. J. Adams.....	374,031	Nov. 29	2619	703	41	998
Molding machine. Sand.....	S. J. Adams.....	374,163	Dec. 6	2	1	41	1047
Molding machine. Sand.....	J. R. Davies.....	365,584	June 28	2035	531	39	1499
Molding machine. Sand.....	C. Dawson.....	371,556	Oct. 18	1158	302	41	244
Molding machine. Sand.....	P. Gallas.....	356,872	Feb. 1	184	49, 50	38	456
Molding machine. Sand.....	G. Guntz.....	360,012	Mar. 29	2390	605	38	1379
Molding machine. Sand.....	J. and J. H. Latshaw.....	364,355	June 7	203	56	39	1127
Molding machine. Sand.....	M. R. Moore.....	364,948	June 14	1076	280	39	1296
Molding machine. Sand.....	H. Tabor.....	365,709	June 28	2209	577	39	1530
Molding machine. Sand.....	H. Tabor.....	365,711	June 28	2214	577	39	1531
Molding machine. Sand.....	S. P. M. Tasker.....	356,856	Feb. 1	159	43	38	452
Molding machine. Sand.....	W. C. Whitehead and A. L. Teetor.....	364,388	June 7	246	69	39	1135
Molding machine. Wood.....	C. L. Goehring.....	361,868	Apr. 26	2128	551	39	419
Molding machines. Attachment for wood.....	J. L. Simmons.....	368,623	Aug. 23	1855	496	40	830
Molding machines. Guide for edge.....	P. B. Graham.....	359,071	Mar. 8	948	242	38	1085
Molding. Pattern for.....	J. J. Carr.....	371,820	Oct. 18	1543	399	41	322
Molding perforated blocks. Apparatus for.....	P. McIntyre.....	368,409	Aug. 16	1546	412	40	763
Molding press. Pulley-pattern.....	J. C. Wheeler and M. Cokely. (Re-issue.)	10,854	Aug. 2	639	171	40	572
Molding-room.....	J. F. Steward.....	370,901	Oct. 4	236	60	41	46
Moldings. Attachment for machines for cutting.....	G. P. Vicken.....	366,280	July 12	726	197	40	145
Moldings. Machine for cutting wood.....	G. P. Vicken.....	355,575	Jan. 4	365	98	38	73
Moldings. Machine for making spiral.....	J. H. Culver.....	371,673	Oct. 18	1325	342	41	277
Mole-trap.....	J. T. Lewman.....	366,963	July 19	1656	444	40	330
Mole-trap.....	J. H. Marlin.....	359,454	Mar. 15	1483	380	38	1192
Mole-trap.....	W. M. Waltman.....	374,765	Dec. 13	849	223	41	1222
Mole-trap.....	J. M. Welch.....	371,649	Oct. 18	1287	333	41	269
Money-changer.....	C. B. Hopkins.....	358,270	Feb. 22	2208	582	38	855
Money-changer.....	W. H. Staats.....	364,141	May 31	2952	766	39	1060
Money-changer and counter.....	J. W. Greer.....	362,738	May 10	950	259	39	658
Money-package.....	R. L. Choep.....	366,075	July 5	445	120	40	84
Money-till.....	H. A. Bierley.....	364,468	June 7	373	102	39	1159
Monument.....	L. G. Kenton.....	366,326	July 12	791	213	40	157
Monument.....	A. McCreary.....	362,643	May 10	825	225	39	633
Monument. Grave.....	A. G. Brandner.....	361,259	Apr. 19	1258	321	39	250
Monument. Metallic.....	A. H. Miller.....	364,661	June 14	634	170	39	1216
Monument or sign holder.....	J. K. P. Shelton.....	359,639	Mar. 22	1795	457	38	1265
Mop.....	C. C. Johnson.....	367,045	July 26	1760	475	40	357
Mop.....	H. H. Mason.....	357,845	Feb. 15	1614	419	38	740
Mop.....	J. H. Omo.....	368,486	Aug. 16	1664	444	40	785
Mop.....	J. W. Oulton.....	363,908	May 31	2607	677	39	994
Mop.....	C. H. Sawyer.....	371,633	Oct. 18	1264	328	41	265
Mop-head.....	C. C. Johnson.....	367,044	July 26	1759	475	40	357

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Mop-head	H. H. Mason	357,846	Feb. 15	1615	419	38	740
Mop-head	F. L. Whittemore	365,287	June 21	1577	410	39	1397
Mop-wringer	L. Bennett	356,913	Feb. 1	237	65	38	465
Mop-wringer	J. F. Chase	365,167	June 21	1405	370	39	1365
Mop-wringer	J. Harris	355,522	Jan. 4	295	79	38	59
Mop-wringer	W. Sellers	358,301	Feb. 22	2254	594	38	864
Mop-wringer and scrubbing-brush holder	Z. R. La Flèche and J. A. Ledoux	375,166	Dec. 20	1454	380	41	1344
Mortar. Druggist's	E. G. Purdy	365,021	June 14	1177	308	39	1314
Mortar. Machine for mixing	E. Landvoigt and B. C. Fenwick	370,629	Sept. 27	1922	510	40	1418
Mortars. Adjustable socket for	E. G. Purdy	366,427	July 12	910	246	40	180
Mortise-lock	F. W. Mix	360,611	Apr. 5	315	77	39	60
Mortise-lock	M. L. Orum	367,436	Aug. 2	106	29	40	471
Mortise lock and latch	H. Hoffman, Jr.	367,631	Aug. 2	403	112	40	528
Mortises. Tool for squaring	L. Herz	364,647	June 14	618	166	39	1212
Mortising-machine	H. M. Darling	369,924	Sept. 13	868	229	40	1207
Mortising-machine	A. L. Grinnell	365,065	June 21	1257	331	39	1339
Mortising-machines. Chain-cutter for	C. H. Douglas	363,123	May 17	1501	397	39	768
Mortising-machine. Endless-chain	C. H. Douglas	374,946	Dec. 20	1137	298	41	1285
Mortising-machines. Gaging device for	J. E. Kessler	360,303	Mar. 29	2849	725	38	1465
Mortising-machines. Laying-out attachment for	H. M. Bullis	374,730	Dec. 13	800	210	41	1212
Mortising-tool	F. V. Phillips	363,080	May 17	1437	380	39	756
Mosaic work	E. Chatain	365,908	July 5	213	55	40	42
Mosaics. Manufacture of imitation	J. Baynes	372,291	Nov. 1	10	3	41	472
Mosquito and fly protector	D. Steinberg	356,015	Jan. 11	1027	270	38	208
Mosquito-bar and carriage-umbrella	W. F. Blunt	373,809	Nov. 29	2311	619	41	939
Mosquito-canopy	W. W. Barnum	358,639	Mar. 1	325	78	38	964
Moss cleaner, picker, curler, and separator	C. E. Anderson	369,676	Sept. 13	508	141	40	1141
Moss. Curing	C. F. Lottman	363,150	May 17	1535	39	775	
Mothproofing curled hair	J. and J. Ruch, Jr.	369,739	Sept. 13	584	40	1154	
Mothproofing hair	J. and J. Ruch, Jr.	359,287	Mar. 15	1240	38	1146	
Motion. Device for changing reciprocating into rotary	F. R. Estlow	367,281	July 26	2111	369	40	421
Motion. Device for converting	S. Barr	358,529	Mar. 1	177	41	38	935
Motion. Device for converting	A. P. Gerlach	355,986	Jan. 11	990	260	38	201
Motion. Device for converting	G. Heully	374,677	Dec. 13	725	190	41	1198
Motion. Device for converting	J. W. Ledyard	364,828	June 14	899	237	39	1263
Motion. Device for conveying	J. J. Greenough	357,593	Feb. 15	1245	327	38	672
Motion. Device for transforming	C. H. Kellogg	357,932	Feb. 15	1727	451	38	761
Motion. Device for transmitting	D. E. Conner	358,431	Mar. 1	11	3, 4	38	905
Motion. Device for transmitting	G. F. Evans	374,296	Dec. 6	174	45	41	1080
Motion. Means for converting	C. W. Corliss	360,856	Apr. 12	654	172	39	129
Motion. Means for converting	W. R. Smith	368,861	Aug. 23	2192	582	40	895
Motion. Mechanism for converting	S. C. Mortimer	360,970	Apr. 12	827	211	39	159
Motion. Transmitting rotary	E. J. Stoddard	363,859	May 31	2547	662	39	984
Motive power	L. D. Louthian	367,307	July 26	2151	579	40	429
Motive power	A. J. Summers	358,086	Feb. 22	1947	514	38	807
Motor:							
See Car-motor.	Manual motor.						
Churn-motor.	Marine motor.						
Current-motor.	Petroleum-motor.						
Diaphragm-motor.	Pressure-motor.						
Electric motor.	Pump-motor.						
Electro-dynamic motor.	Sewing-machine motor.						
Electro-magnetic motor.	Soda-motor.						
Gas-motor.	Spring-motor.						
Hand and spring motor.	Steam-motor.						
Hydraulic motor.	Steam or water motor.						
Hydraulic marine motor.	Toy water-motor.						
	Velocipede-motor.						
	Water-motor.						
Motor	D. R. Baker	366,551	July 12	1080	293	40	215
Motor	M. J. Barrow	375,410	Dec. 27	1770	464	41	1415
Motor	A. A. Fisher and A. J. Hart	357,378	Feb. 8	912	240	38	600
Motor	F. Foellmer	359,858	Mar. 22	2143	540 } 541	38	1327
Motor	J. Gregory	361,937	Apr. 26	2217	576	39	436
Motor	J. H. Holmgreen	366,958	July 19	1650	443	40	329
Motor	C. Kouschutzky	366,406	July 12	890	239	40	176
Motor	A. Lucier	362,024	Apr. 26	2356	614	39	459
Motor	B. McCabe	356,542	Jan. 25	1780	464	38	362
Motor	J. G. C. and E. Rank	372,086	Oct. 25	1956	504	41	406
Motor	P. M. Sharples	370,421	Sept. 27	1598	427	40	1359
Motor	R. Teichmann	368,499	Aug. 16	1688	449	40	789
Motor	J. P. Watson	360,184	Mar. 29	2680	677	38	1432
Motor and vacuum engine	W. L. Horne	372,072	Oct. 25	1934	499	41	402
Motor device. Alternating-current	E. Thomson	363,186	May 17	1588	417 } 418 } 419	39	786
Motors. Method of and apparatus for synchronizing and regulating the movements of	J. H. Rogers	358,753	Mar. 1	487	118 } 119 } 120	38	994
Mouse or rat trap	E. M. Murrill	365,848	July 5	127	34	40	26
Mower	T. S. Brown	357,902	Feb. 15	1686	439	38	753
Mower	W. R. Baker	361,607	Apr. 19	1733	447 } 448 } 449	39	339
Mower	J. Gilchrest	368,885	Aug. 23	2223	592	40	901
Mower	J. E. Nieth and C. L. Thomas	357,330	Feb. 8	848	221	38	587
Mower	G. H. Spaulding	364,315	June 7	149	42	39	1117
Mower and insect-catcher. Convertible	W. R. Van Vliet	359,191	Mar. 8	1103	286 } 287 } 288	38	1114
Mower and reaper attachment. Corn-cutting	A. W. Thompson	365,653	June 28	2131	557	39	1516
Mower and reaper guard	J. H. Folliott	356,357	Jan. 18	1523	399	38	306
Mower attachment	A. White	365,558	June 28	1990	519	39	1491
Mower. Edge-trimming lawn	D. Kenyon	362,516	May 10	629	177	39	600

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Mower-knives. Machine for grinding	R. Dutton	359,964	Mar. 22	2305	{ 579 580 581 }	{ 38 }	1357
Mower. Lawn	W. J. Fitzgerald	370,771	Oct. 4	29	7	41	8
Mower. Lawn	E. G. Passmore	374,808	Dec. 13	914	239	41	1234
Mower. Lawn	J. F. Powell	362,535	May 10	652	184	39	604
Mower. Lawn	F. Trump and W. A. Scott	373,501	Nov. 22	1861	{ 494 495 }	{ 41 }	844
Mower. Lawn	C. Warren	362,339	May 3	374	103	39	547
Mower. Lawn	G. M. Williams	359,550	Mar. 15	1640	{ 419 420 }	{ 38 }	1220
Mower. Lawn	W. L. Woodruff	362,862	May 10	1125	303	39	689
Mower or reaper attachment	F. W. and M. Seidle	361,552	Apr. 19	1645	426	39	324
Mowers and reapers. Gearing for	W. Lynch	375,172	Dec. 20	1460	382	41	1346
Mowers. Cutting apparatus for	C. W. Bradford	359,992	Mar. 29	2351	592	38	1372
Mowers. Cutting apparatus for	W. E. Clough	360,374	Mar. 29	2951	750	38	1481
Mowers. Grass-receiver for lawn	H. H. Tapper	363,093	May 17	1457	385	39	759
Mowers. Grass-receptacle for lawn	W. R. Twiggs	370,361	Sept. 20	1508	404	40	1334
Mowers or harvesters. Cutting apparatus for	J. O. Brown	369,095	Aug. 30	2534	672	40	969
Mowers. Pitman-connection for	C. Martincourt	373,781	Nov. 22	2264	607	41	921
Mowers. Rake attachment for	C. F. Hamlin	364,246	June 7	64	19	39	1100
Mowing and reaping machine	A. P. Gillett	362,155	May 3	143	42	39	501
Mowing and reaping machines. Cutter-bar for	P. E. Shee	370,497	Sept. 27	1723	457	40	1380
Mowing-machine	G. H. Bartlett and J. A. Johnson	372,354	Nov. 1	103	30	41	491
Mowing-machine	J. C. Bloom	369,225	Aug. 30	2692	715	40	1001
Mowing-machine	A. Ellis	362,946	May 17	1249	332	39	719
Mowing-machine	S. Garvin	357,590	Feb. 15	1239	326	38	671
Mowing-machine	C. A. Greene	373,524	Nov. 22	1908	506	41	853
Mowing-machine	T. Harding	369,109	Aug. 30	2554	679	40	972
Mowing-machine	H. L. Hopkins	360,019	Mar. 29	2403	{ 604 609 }	{ 38 }	1382
Mowing-machine	G. G. Hunt	366,003	July 5	346	93, 94	40	66
Mowing-machine	V. G. Smith	365,946	July 5	274	72	40	52
Mowing-machine	J. M. Waldorf	375,431	Dec. 27	1799	471	41	1420
Mowing-machine attachment	W. S. Fox	359,351	Mar. 15	1326	344	38	1162
Mowing-machine cutter	W. T. Decker	356,574	Jan. 25	1830	479	38	371
Mowing-machine knives. Machine for grinding	J. Rogers	370,658	Sept. 27	1963	519	40	1425
Mowing-machine knives. Machine for grinding	W. S. Williams	371,870	Oct. 18	1622	{ 418 419 }	{ 41 }	337
Mowing-machine pitman	O. D. Brown	362,058	May 3	10	4	39	474
Mowing-machines. Cutting apparatus for	F. W. and J. E. Melcher	371,963	Oct. 25	1762	456	41	373
Mowing-machines or harvesters. Cover for knives of	J. O. Brown	369,096	Aug. 30	2536	{ 672 673 }	{ 40 }	969
Mucilage receptacle and brush. Combined	W. H. Underwood	373,701	Nov. 22	2153	576	41	901
Muff	M. Salamon	369,817	Sept. 13	692	187	40	1174
Muffler	T. E. Hill	359,389	Mar. 15	1394	357	38	1174
Muffles or retorts. Making	C. Wernicke	367,079	July 26	1817	{ 489 490 }	{ 40 }	368
Multi-cylinder engine	A. D. Linn	365,081	June 21	1276	{ 337 338 }	{ 39 }	1342
Multiple-effect apparatus	F. J. Weiss	371,809	Oct. 18	1526	394	41	318
Multiple switch-board	W. S. Ford	357,821	Feb. 15	1580	411	38	733
Multiple switch-board	M. G. Kellogg	362,217	May 3	218	64, 65	39	515
Multiple-switch-board systems. Local battery-circuit for	J. A. Seely	357,540	Feb. 8	1155	303	38	646
Multipleswitch-boards. Double-spring loop key and circuit for	C. E. Scribner	375,685	Dec. 27	2163	{ 562 563 }	{ 41 }	1487
Multiple switch-boards. Metallic circuit for	J. A. Seely	357,539	Feb. 8	1154	{ 302 303 }	{ 38 }	645
Multitubular boiler	J. M. Terme and J. Déharbe	372,580	Nov. 1	439	{ 116 117 118 }	{ 41 }	553
Music and book holder	W. J. Hammer	363,228	May 17	1639	430	39	795
Music. Apparatus for transposition of	G. H. Huard	363,392	May 24	1857	489	39	846
Music. Appliance for holding sheet	C. F. Lancaster	369,534	Sept. 6	302	84	40	1092
Music-box	L. Campiche	374,394	Dec. 6	315	84	41	1106
Music-box	O. F. Gunz and A. Sueur	355,447	Jan. 4	199	53	38	40
Music-box	C. H. Jacot	362,087	May 3	50	15	39	482
Music-box	A. Junod	366,325	July 12	789	213	40	157
Music-box	A. Junod	367,409	Aug. 2	75	19, 20	40	465
Music-box	G. Perrier	368,304	Aug. 16	1409	372	40	735
Music-box	T. Robin and J. A. Mailloux	364,959	June 14	1091	284	39	1299
Music-box	A. Sueur	355,484	Jan. 4	250	66	38	51
Music-box	A. Sueur	355,485	Jan. 4	251	66	38	51
Music-box	A. Sueur	363,774	May 24	2421	628	39	954
Music-box	E. Tüller	364,554	June 7	499	134	39	1182
Music-box comb	C. Paillard and L. Recordon-Sulliger	369,258	Aug. 30	2735	728	40	1010
Music-box. Duplex	A. Junod	356,251	Jan. 18	1363	360	38	276
Music-box motor	C. H. Jacot	374,410	Dec. 6	339	88	41	1110
Music-boxes. Automatic check for	L. Gagnaux	359,146	Mar. 8	1043	271	38	1103
Music-boxes. Governor for	J. F. Brown	356,702	Jan. 25	2004	526	38	405
Music-boxes. Safety-check for	E. Cuendet	363,451	May 24	1946	509	39	862
Music-boxes. Speed-regulator for	E. Sueur	360,396	Mar. 29	2980	756	38	1487
Music-boxes. Stop attachment for	E. Sueur	360,830	Apr. 5	612	{ 160 161 }	{ 39 }	115
Music-boxes. Zither attachment for	E. Sueur	361,654	Apr. 19	1809	469	39	354
Music cabinet. Sheet	O. Stoddard	372,341	Nov. 1	85	25	41	487
Music-chart	W. Glass	372,139	Oct. 25	2037	522	41	421
Music-chart	C. E. Hill	373,069	Nov. 15	1190	318	41	708
Music-chart	C. S. Mason	375,496	Dec. 27	1884	493	41	1437
Music-holder	F. L. Tripp	355,358	Jan. 4	92	25	38	19
Music-leaf turner	P. L. Carden	356,983	Feb. 1	336	89	38	485
Music-leaf turner	J. T. Carrington and A. J. Sleeper	373,269	Nov. 15	1494	{ 394 395 }	{ 41 }	764

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Music-leaf turner	A. J. Cole	370,855	Oct. 4	153	41, 42	41	30
Music-leaf turner	O. C. Feys	361,816	Apr. 26	2042	{ 531 532 }	39	404
Music-leaf turner	J. Herron	359,566	Mar. 15	1669	426	38	1226
Music-leaf turner	C. Landgraf	358,679	Mar. 1	387	93	38	975
Music-leaf turner	S. Rathburn	356,959	Feb. 1	299	83	38	477
Music-leaf turner	H. W. Stone, Jr.	370,165	Sept. 20	1242	330	40	1283
Music-leaf turner	W. E. Swett	363,489	May 24	2011	{ 524 525 }	39	877
Music or paper holder	E. R. Horton	363,142	May 17	1523	403	39	772
Music-recorder	V. S. Bekofsky	366,068	July 5	435	118	40	83
Music-recording attachment for key-board instruments.	J. Carpentier	373,644	Nov. 22	2074	554	41	885
Music stand and rack. Folding	C. L. Peak	359,811	Mar. 22	2057	521	38	1312
Musical box	J. Billou-Haller	361,043	Apr. 12	938	237	39	178
Musical box	O. P. Lochmann	374,127	Nov. 29	2760	{ 741 742 }	41	1025
Musical box	E. Parr	359,278	Mar. 15	1229	320	38	1144
Musical chart	L. A. F. Bentayoux	362,333	May 3	364	{ 100 101 }	39	544
Musical chart	I. G. Withers	359,829	Mar. 22	2082	527	38	1317
Musical instrument	J. D. Bachtel	361,110	Apr. 12	1026	259	39	196
Musical instrument	V. T. Barnwell	357,168	Feb. 8	635	165	38	547
Musical instrument	M. Gally	364,813	June 14	879	{ 231 232 }	39	1259
Musical instrument	S. J. Talbott	375,224	Dec. 20	1526	401	41	1259
Musical instrument. Automatic	J. McTammany	374,616	Dec. 13	646	169	41	1181
Musical instrument. Automatic	E. Parr	359,279	Mar. 15	1230	320	38	1144
Musical instrument. Mechanical	O. H. Arno	361,200	Apr. 12	1173	{ 296 297 }	39	222
Musical instrument. Mechanical	O. H. Arno	361,201	Apr. 12	1178	{ 297 298 }	39	223
Musical instrument. Mechanical	J. H. Chase	360,280	Mar. 29	1820	717	38	1459
Musical instrument. Mechanical	J. H. Chase	363,591	May 24	2156	559	39	904
Musical instrument. Mechanical	G. H. Chinnock and H. S. Taylor	375,531	Dec. 27	1928	505	41	1446
Musical instrument. Mechanical	F. E. P. Ehrlich	368,080	Aug. 9	1078	287	40	664
Musical instrument. Mechanical	M. Gally	370,466	Sept. 27	1674	446	40	1373
Musical instrument. Mechanical	H. F. Hambruch	371,449	Oct. 11	1010	262	41	206
Musical instrument. Mechanical	G. B. Kelly	356,690	Jan. 25	1985	{ 521 522 }	38	402
Musical instrument. Mechanical	F. E. Kenyon	358,157	Feb. 22	2055	541	38	825
Musical instrument. Mechanical	C. Kretschmar	360,163	Mar. 29	2652	669	38	1426
Musical instrument. Mechanical	C. A. Kuster	361,299	Apr. 19	1314	{ 337 338 }	39	261
Musical instrument. Mechanical	C. A. Kuster	361,300	Apr. 19	1316	338	39	261
Musical instrument. Mechanical	C. A. Kuster	363,400	May 24	1868	491	39	848
Musical instrument. Mechanical	A. A. McIntire	355,880	Jan. 11	830	217	38	168
Musical instrument. Mechanical	{ H. B. Morris, S. R. Tisdell, and F. Labar. }	363,841	May 31	2521	{ 655 656 }	39	979
Musical instrument. Mechanical	R. W. Pain	356,422	Jan. 18	1613	423	38	322
Musical instrument. Mechanical	R. W. Pain	356,599	Jan. 25	1860	{ 489 490 }	38	378
Musical instrument. Mechanical	F. Pietschmann	363,480	May 24	1991	520	39	872
Musical instrument. Mechanical	G. Racca and W. Seward	357,502	Feb. 8	1088	{ 287 288 }	38	633
Musical instrument. Mechanical	J. E. Treat	369,667	Sept. 6	492	136	40	1128
Musical instrument. Stringed	C. A. Ahlstrom	356,971	Feb. 1	318	86	38	482
Musical instrument. Stringed	G. W. Van Dusen	363,564	May 24	2120	550	39	897
Musical instrument. Wind	A. V. Chevers	373,012	Nov. 8	1102	{ 294 295 }	41	682
Musical instruments. Bow for	D. Nettekoven	361,441	Apr. 19	1506	388	39	296
Musical instruments. Coupler for	W. D. Parker	365,092	June 21	1294	{ 342 343 }	39	1345
Musical instruments. Key-board attachment for	H. Richards	364,041	May 31	2810	729	39	1034
Musical instruments. Key-board for	A. L. Krom	367,148	July 26	1916	517	40	385
Musical instruments. Key-board for	P. Von Jankó	360,255	Mar. 29	2781	707	38	1452
Musical instruments. Key-board player for	H. F. Hambruch	371,450	Oct. 11	1010	263	41	206
Musical instruments. Motor for mechanical	G. B. Kelly	357,933	Feb. 15	1728	{ 451 452 }	38	761
Musical instruments. Pneumatic action for	W. D. Parker	368,164	Aug. 9	1187	{ 317 318 }	40	685
Musical instruments. Pneumatic action for	W. D. Parker	368,165	Aug. 9	1191	{ 318 319 }	40	685
Musical instruments. Pneumatic action for	F. Pritchard and G. H. Ahlstrom	363,082	May 17	1439	381	39	756
Musical instruments. Tool for cutting seats for insulator attachments for	J. Dewing and D. F. Bennett	373,393	Nov. 15	1687	447	41	800
Musical instruments. Valve-action for	W. D. Parker	355,336	Jan. 4	61	17, 18	38	13
Musical transposition-indicator	J. Maggs	371,692	Oct. 18	1354	350	41	283
Musical tube. Keyed	W. R. and A. S. Conner	358,841	Mar. 8	622	154	38	1024
Musical walking-stick	M. Seliger	370,496	Sept. 27	1722	457	40	1380
Mustache-guard	W. S. Brower and E. Conklin	357,571	Feb. 15	1213	319	38	667
Muzzle	B. U. Hiester	375,631	Dec. 27	2085	543	41	1474
Muzzle for animals	G. D. Spooner	368,430	Aug. 16	1580	422	40	770
Nail:							
See Barbed nail. Shoe-nail.							
Cement-coated nail. Tapered nail.							
Furniture-nail. Wire nail.							
Heel-nail.							
Nail	H. F. Murray	374,549	Dec. 6	550	143	41	1153
Nail-assorting machine	E. B. Allen	374,387	Dec. 6	306	81	41	1104
Nail-cutting machine	E. H. Bissett	361,744	Apr. 26	1937	{ 502 503 }	39	384
Nail-cutting machine	P. McDermott	370,965	Oct. 4	343	85	41	68
Nail-cutting machine	G. W. Packer	374,807	Dec. 13	912	238	41	1234

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Nail-cutting machine	W. Wickersham	358,522	Mar. 1	162	38	38	933
Nail distributing and driving machine	F. F. Raymond, 2d	356,209	Jan. 18	1304	{ 345 346 }	{ 38 38 }	265
Nail distributing and driving machine	F. F. Raymond, 2d	358,695	Mar. 1	411	98, 99	38	980
Nail-driving machine	T. Fowler	355,762	Jan. 11	644	168	38	135
Nail-extractor	G. J. Capewell	358,540	Mar. 1	190	44	38	937
Nail-extractor	P. F. King	368,536	Aug. 16	1738	462	40	798
Nail-extractor	E. Storm	374,761	Dec. 13	844	221	41	1221
Nail-machine	L. J. Hirt	355,609	Jan. 4	403	{ 110 111 }	{ 38 38 }	81
Nail-machine	D. C. Stover	359,522	Mar. 15	1596	409	38	1212
Nail-machine	J. M. Young	358,100	Feb. 22	1965	519	38	810
Nail machine. Wire	J. Arbeiter	355,631	Jan. 4	439	121	38	87
Nail machine. Wire	G. M. Fish and C. J. F. Kraft	368,465	Aug. 16	1637	{ 437 438 }	{ 40 40 }	780
Nail machine. Wire	L. A. Fontaine	360,343	Mar. 29	2899	{ 738 739 }	{ 38 38 }	1474
Nail machine. Wire	H. B. Happe	359,564	Mar. 15	1666	{ 424 425 }	{ 38 38 }	1225
Nail machine. Wire	C. C. Hill	358,553	Mar. 1	210	49, 50	38	942
Nail machine. Wire	W. J. Hutchins	365,687	June 28	2177	{ 568 569 }	{ 39 39 }	1525
Nail machine. Wire	E. B. Parkhurst	365,855	July 5	135	36, 37	40	27
Nail machine. Wire	A. E. Preston	368,549	Aug. 16	1755	{ 466 467 }	{ 40 40 }	801
Nail machine. Wire	J. D. Robinson	358,408	Feb. 22	2395	{ 637 638 }	{ 38 38 }	891
Nail machine. Wire	G. H. Ryan	365,944	July 5	270	70, 71	40	52
Nail machines. Cutting-die for wire	R. Berchtold	368,125	Aug. 9	1132	301	40	674
Nail making and distributing machine	F. F. Raymond, 2d	355,840	Jan. 11	762	200	38	155
Nail making and distributing machine	C. C. Small	375,209	Dec. 20	1504	{ 295 296 }	{ 41 41 }	1355
Nail making and driving machine	H. Weeks and H. D. Stone	358,710	Mar. 1	430	{ 104 105 106 }	{ 38 38 38 }	984
Nail making, distributing, and driving device	F. F. Raymond, 2d	356,552	Jan. 25	1793	{ 467 468 469 470 }	{ 38 38 38 38 }	364
Nail-making machine. Wire	E. F. Lewis	364,119	May 31	2910	{ 755 756 }	{ 39 39 }	1053
Nail-making machine. Wire	T. McMahon	372,320	Nov. 1	53	16	41	481
Nail-plate and cut nail	G. T. Walker	363,866	May 31	2555	663	39	985
Nail-plate feeder	J. M. Bryant	355,584	Jan. 4	374	101	38	75
Nail-plate feeder	J. H. Dunbar	355,813	Jan. 11	716	{ 187 188 189 }	{ 38 38 38 }	148
Nail-plate feeder	J. Fielding	372,307	Nov. 1	31	10	41	478
Nail-plate feeder	J. C. Gould	367,389	Aug. 2	44	12	40	459
Nail-plate feeder	J. C. Gould	368,827	Aug. 23	2145	568	40	884
Nail-plate feeder	J. C. Gould	369,933	Sept. 13	882	234	40	1209
Nail-plate feeder	D. Jones	356,646	Jan. 25	1935	507	38	392
Nail-plate feeder	C. F. Roth	368,551	Aug. 16	1758	{ 467 468 }	{ 40 40 }	802
Nail-plate feeder. Automatic	J. S. Stott	358,231	Feb. 22	2156	569	38	845
Nail. Screw	H. K. Jones	355,825	Jan. 11	739	193	38	152
Nail-set	R. H. Hunter	374,252	Dec. 6	117	29	41	1069
Nail-set	R. W. Trotter	368,795	Aug. 23	2100	556	40	876
Nail-strip and forming nails	F. F. Raymond, 2d	356,551	Jan. 25	1791	467	38	364
Nail with countersunk head	J. W. Higgs	373,291	Nov. 15	1530	404	41	770
Nails. Machine for and method of making double-pointed wire	G. Doolittle	365,121	June 21	1342	355	39	1353
Nails. Machine for making cut	L. Goddu	370,135	Sept. 20	1195	{ 315 316 317 }	{ 40 40 40 }	1274
Nails. Machine for making cut	R. A. Mapp	371,337	Oct. 11	850	218	41	174
Nails. Machine for making cut	D. C. Sweet and F. Allison	375,302	Dec. 20	1626	431	41	1378
Nails. Machine for making screw	H. Dunham	357,166	Feb. 1	628	162	38	537
Nails. Making	H. Weeks	358,709	Mar. 1	429	104	38	984
Nails. Making headed	F. F. Raymond, 2d	355,839	Jan. 11	761	199	38	155
Nails. Manufacture of wire	C. D. Rogers	368,688	Aug. 23	1946	516	40	848
Nailing implement	W. M. Viser	371,863	Oct. 18	1611	416	41	335
Nailing-machine	W. C. Evans and J. P. Smith	367,282	July 26	2112	{ 569 570 }	{ 40 40 }	422
Nailing-machine	L. Goddu	360,585	Apr. 5	282	69	39	54
Nailing machine. Box	T. Fowler and T. B. De Forest	361,754	Apr. 26	1953	{ 508 509 }	{ 39 39 }	387
Nailing machines. Gripping mechanism for wire	O. E. Seymour	364,777	June 14	821	217	39	1248
Nailing or screwing. Tool for blind	W. M. Morton	359,224	Mar. 8	1151	299	38	1123
Nailing. System of blind	D. M. Balsar	356,238	Jan. 18	1349	356	38	273
Naphtha-engines. Pressure-generator for	F. W. Ofeldt	356,420	Jan. 18	1610	422	38	322
Naphthazarin. Manufacture of soluble	R. Bohn	368,054	Aug. 9	1043	.....	40	657
Napkin-holder	E. Gaillac	357,313	Feb. 8	830	216	38	584
Napkin-holder	J. Grant	368,944	Aug. 30	2319	616	40	928
Napkin-holder	C. M. Paul and E. T. Deely	360,464	Apr. 5	97	25	39	19
Napkin holder and ring. Combined	C. W. Higgins	365,598	June 28	2054	535	39	1502
Napkin-supporter	E. J. Gooch	368,582	Aug. 23	1801	480	40	820
Navigator's position-indicator	H. O. Rittenhouse	356,503	Jan. 25	1728	{ 451 452 }	{ 38 38 }	353
Neck-wear fastener	J. D. Gottschalk	373,930	Nov. 29	2476	664	41	970
Neck-wear. Fastening for	W. D. Heron	371,196	Oct. 11	658	168	41	138
Neck-wear tip	J. M. Guilbert	359,209	Mar. 8	1127	293	38	1118
Necklaces. Memorial ornament for	W. H. Palmer	365,853	July 5	134	36	40	27
Neckscarf	R. Barnhard	357,754	Feb. 15	1488	390	38	716

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Necktie.....	M. Burckhardt and E. Wieman	363,362	May 24	1819	{ 477 478	{ 39	839
Necktie.....	M. F. Graham and J. A. Yost	358,033	Feb. 22	1866	493	38	792
Necktie.....	J. H. Irwin.....	364,017	May 31	2779	720	39	1028
Necktie.....	W. Lawrence.....	363,653	May 24	2249	583	39	922
Necktie.....	H. Tintrop.....	363,862	May 31	2551	663	39	985
Necktie and shirt-bosom. Combined.....	D. S. Bragdon.....	364,891	June 14	992	261	39	1281
Necktie-fastener.....	P. D. Benway, Jr.....	358,721	Mar. 1	448	109	38	987
Necktie-fastener.....	E. B. Croker.....	366,156	July 5	549	148	40	104
Necktie-fastener.....	J. G. Davy.....	363,212	May 17	1620	425	39	792
Necktie-fastener.....	B. Goodman.....	375,418	Dec. 27	1782	466	41	1417
Necktie-fastener.....	H. C. Hill.....	356,314	Jan. 18	1454	382	38	293
Necktie-fastener.....	A. Larson.....	371,079	Oct. 4	493	124	41	97
Necktie-fastening.....	J. H. Carter.....	364,087	May 31	2866	743	39	1045
Necktie-holder.....	G. Gros.....	356,636	Jan. 25	1924	504	38	390
Necktie-holder.....	H. Schoening.....	358,990	Mar. 8	845	214	38	1065
Necktie or cravat fastening.....	J. K. Cleary.....	356,680	Jan. 25	1974	519	38	400
Needle.....	A. S. Hutchinson.....	371,141	Oct. 4	581	148	41	115
Needle.....	J. S. Macdonald.....	356,880	Feb. 1	199	55	38	458
Needle and case. Suture.....	J. L. King.....	373,372	Nov. 15	1661	441	41	795
Needle and cord and mode of uniting the same. Combined.....	E. N. Gaillard.....	362,374	May 3	424	118	39	557
Needle and thread. Manufacture of combined.....	F. R. Parsons.....	363,478	May 24	1990	519	39	872
Needle-blanks. Machine for swaging.....	L. B. Miller.....	364,274	June 7	98	28	39	1108
Needle. Sewing-machine.....	A. S. Hutchinson.....	360,884	Apr. 12	697	183	39	136
Needles. Making.....	G. F. Hussey.....	372,471	Nov. 1	276	76	41	523
Nest for fowls.....	C. C. Pierce.....	370,407	Sept. 27	1580	422	40	1355
Nest. Hen's.....	T. W. Russell.....	361,651	Apr. 19	1805	468	39	353
Net. Fly.....	J. Hand.....	370,696	Sept. 27	2022	538	40	1436
Net. Fly.....	A. Wahra.....	360,629	Apr. 5	340	85	39	65
Net. Fly.....	H. F. Walter.....	368,034	Aug. 9	1012	272	40	652
Net for horses. Fly.....	G. W. Kelsey.....	364,020	May 31	2782	721	39	1028
Net for horses. Fly.....	F. S. Weaver.....	364,455	June 7	356	98	39	1156
Net for the legs of horses. Fly.....	C. E. Nordyke.....	359,937	Mar. 22	2261	568	38	1348
Net frame. Mosquito.....	A. C. Lottman.....	367,151	July 26	1922	518	40	387
Net. Hoisting.....	Z. S. Burrell, G. W. De Vor, and J. J. Pennal.....	363,113	May 17	1488	393	39	765
Net. Horse.....	J. Hand.....	370,617	Sept. 27	1904	506	40	1414
Nets. Folding hoop for landing.....	J. Reed.....	367,928	Aug. 9	861	234	40	624
Netting attachment. Mosquito.....	M. L. Hardy.....	368,206	Aug. 16	1257	335	40	706
Netting canopy for beds, &c.....	M. P. C. Hooper.....	364,415	June 7	292	80	39	1144
Netting. Horse.....	G. W. Kelsey.....	373,371	Nov. 15	1660	441	41	794
Newspaper-folding machine.....	A. T. Bascom.....	368,805	Aug. 23	2112	{ 559 560	{ 40	879
Newspaper-holder.....	J. Willy.....	366,803	July 19	1446	387	40	290
Night-soil. Apparatus for treating.....	R. W. E. MacIvor.....	361,367	Apr. 19	1409	363	39	278
Nippers.....	H. Hammond.....	368,470	Aug. 16	1646	439	40	781
Nippers. Cutting.....	C. F. Bowman.....	355,373	Jan. 4	107	29	38	23
Nitro-cellulose. Granular.....	R. Bernstein.....	363,197	May 17	1602	.....	39	788
Non-conducting composition.....	J. Loftus.....	363,834	May 31	2512	.....	39	977
Non-conducting filling or lining.....	G. Kelly.....	369,796	Sept. 13	660	179	40	1168
Non-conducting lining.....	G. Kelly.....	366,221	July 12	645	175	40	130
Non-conducting lining.....	G. Kelly.....	366,222	July 12	646	175	40	130
Nose-protector.....	W. A. Sentman.....	364,733	June 14	737	196	39	1235
Nose rings. Tool for making and applying hog.....	J. Church.....	364,089	May 31	2870	744	39	1046
Nozzle.....	F. Moore.....	356,598	Jan. 25	1858	489	38	378
Number or letter plate.....	H. Z. Kimball.....	360,388	Mar. 29	2973	753	38	1486
Numbering apparatus.....	W. R. Bacon.....	363,975	May 31	2726	706	39	1016
Numbering-machine.....	E. A. Warren.....	359,751	Mar. 22	1963	{ 497 498	{ 38	1295
Numbering machine. Consecutive.....	J. H. Reinhardt.....	374,629	Dec. 13	661	173	41	1184
Numbering papers. Machine for.....	W. W. Colley.....	362,145	May 3	126	38	39	498
Numbering tickets. Apparatus for.....	W. R. Bacon.....	363,193	May 17	1598	419	39	788
Nursery and sewing table.....	J. Conn.....	361,267	Apr. 19	1269	324	39	253
Nursery-gate.....	J. H. Peterson.....	367,162	July 26	1933	521	40	389
Nut.....	J. H. Burdick.....	356,744	Feb. 1	8	3	38	424
Nut.....	J. C. Shellito.....	360,621	Apr. 5	332	82	39	63
Nut and bolt lock.....	W. Tucker.....	362,909	May 10	1197	320	39	703
Nut-blanks. Die for shaping.....	M. Kennedy.....	370,066	Sept. 20	1089	288	40	1255
Nut-fasteners. Machine for making.....	W. Dunn.....	356,279	Jan. 18	1403	370	38	284
Nut for calipers and dividers. Rapidly-adjustable.....	J. D. Wright.....	355,430	Jan. 4	178	47. 48	38	36
Nut-lock.....	W. Adair.....	370,588	Sept. 27	1860	494	40	1405
Nut-lock.....	J. Baker.....	367,084	July 26	1823	491	40	369
Nut-lock.....	D. N. Bay and W. H. Fowler.....	363,196	May 17	1601	420	39	788
Nut-lock.....	G. O. Bishop.....	355,372	Jan. 4	106	29	38	22
Nut-lock.....	J. C. Blakney.....	372,739	Nov. 8	672	184	41	606
Nut-lock.....	J. C. Butler.....	356,745	Feb. 1	9	3	38	424
Nut-lock.....	D. R. Campbell and N. M. Hetzler.....	365,165	June 21	1402	370	39	1365
Nut-lock.....	W. C. Chamberlain.....	367,023	July 26	1731	466	40	352
Nut-lock.....	J. T. Clark.....	357,467	Feb. 8	1042	275	38	624
Nut-lock.....	G. E. Clarke.....	363,594	May 24	2162	560	39	905
Nut-lock.....	G. E. Clarke and F. Harbridge.....	359,132	Mar. 8	1026	266	38	1100
Nut-lock.....	S. M. Cunningham and J. B. Peppin.....	366,765	July 19	1399	374	40	281
Nut-lock.....	P. J. Dambach and J. S. Hannan.....	359,385	Mar. 15	1391	355	38	1173
Nut-lock.....	B. N. Deblieux.....	367,196	July 26	1976	5 4	40	398
Nut-lock.....	J. F. Dill.....	365,674	June 28	2161	563	39	1522
Nut-lock.....	W. B. Doty.....	362,880	May 10	1149	309	39	694
Nut-lock.....	J. F. Duff.....	370,457	Sept. 27	1657	442	40	1369
Nut-lock.....	P. Dunn.....	363,052	May 17	1402	371	39	749
Nut-lock.....	P. Fesler.....	375,704	Dec. 27	2187	569	41	1492
Nut-lock.....	C. A. Finley.....	367,203	July 26	1984	536	40	400
Nut-lock.....	S. H. French and W. J. Maltby.....	365,741	June 28	2266	590	39	1541
Nut-lock.....	H. F. Gaines.....	360,676	Apr. 5	398	101	39	75
Nut-lock.....	R. W. Gates.....	355,646	Jan. 4	477	127	38	94

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Nut-lock	D. P. Gienty	360,091	Mar. 29	2520	641	38	1404
Nut-lock	J. L. Hall	363,820	May 31	2489	646	39	973
Nut-lock	F. W. Harmon	362,832	May 10	1084	293	39	682
Nut-lock	F. Hatch	362,742	May 10	958	260	39	659
Nut-lock	G. Heffner	361,515	Apr. 19	1599	414	39	315
Nut-lock	G. and H. Heiler	367,809	Aug. 9	695	188	40	590
Nut-lock	L. Hussey	369,007	Aug. 30	2405	638	40	945
Nut-lock	J. C. Johns	375,294	Dec. 20	1611	423	41	1376
Nut-lock	Z. F. Jones	360,699	Apr. 5	437	112	39	81
Nut-lock	D. Leake	365,828	July 5	96	27	40	20
Nut-lock	J. J. Mulvaney, Jr.	375,711	Dec. 27	2196	571	41	1494
Nut-lock	J. W. Parks and P. G. Roquemore	374,426	Dec. 6	364	96	41	1116
Nut-lock	W. A. Pungs	371,149	Oct. 4	591	151	41	116
Nut-lock	S. H. Ray	371,971	Oct. 25	1773	459	41	375
Nut-lock	F. Redmond	370,559	Sept. 27	1812	482	40	1397
Nut-lock	G. W. Roberts	368,785	Aug. 23	2086	553	40	873
Nut-lock	J. Rodgers	358,000	Feb. 15	1824	479	38	779
Nut-lock	A. Schapiro	374,274	Dec. 6	139	37	41	1074
Nut-lock	L. Self	368,357	Aug. 16	1476	393	40	749
Nut-lock	W. H. Smith	356,170	Jan. 18	1259	332	38	256
Nut-lock	J. W. Spafford	363,259	May 17	1679	440	39	803
Nut-lock	J. M. Staples	363,430	May 24	1917	503	39	857
Nut-lock	D. Steiner	373,697	Nov. 22	2149	575	41	900
Nut-lock	L. Surprenant	371,526	Oct. 11	1114	290	41	226
Nut-lock	R. T. Sylvester	366,436	July 12	922	250	40	183
Nut-lock	C. S. Wenger	365,285	June 21	1573	409	39	1396
Nut-lock	C. F. Whisler	373,544	Nov. 22	1933	512	41	857
Nut-machine	C. B. Andersson	370,515	Sept. 27	1744	463 464 465	40	1384
Nut-machine	F. Lackner	355,456	Jan. 4	209	56	38	42
Nut-wrench	A. K. and A. M. Spaulding	357,869	Feb. 15	1644	428	38	746
Nuts and washers. Machine for manufacturing	S. Brightmore	365,328	June 21	1634	426	39	1408
Nuts. Bleaching edible	F. M. Ironmonger	361,700	Apr. 26	1877		39	375
Nuts, &c. Cleaning	J. H. Spencer	374,012	Nov. 29	2592	696	41	993
Nuts. Machine for chamfering and facing screw	R. S. Wood and E. N. Dunderdale	371,654	Oct. 18	1292	335	41	271
Nutshell-cutting machine	C. Pecht	365,198	June 21	1443	380	39	1373
Oar	J. Wright	359,374	Mar. 15	1359	351	38	1169
Oar-blade	G. W. Lingle	370,070	Sept. 20	1096	290	40	1256
Oar. Bow-facing	J. H. McGee	355,879	Jan. 11	829	216	38	168
Oar. Bow-facing	T. E. Streeter	359,230	Mar. 8	1162	302	38	1124
Oar. Front-facing automatic feathering	B. F. Steele	358,757	Mar. 1	493	121	38	995
Oar-handle. Balanced	E. W. Case	359,130	Mar. 8	1024	265	38	1100
Oar-lock	H. M. Hoyt	369,715	Sept. 13	557	152	40	1150
Oar-lock	J. A. Mell	360,895	Apr. 12	711	188	39	139
Oar-lock	A. H. Tompkins	362,405	May 3	461	127	39	565
Oar-lock	C. H. Vite	373,702	Nov. 22	2153	577	41	901
Oar or scull blade	G. W. Green	358,034	Feb. 22	1837	494	38	792
Oarsman's harness	F. F. Martin	356,846	Feb. 1	146	39	38	449
Oatmeal-machine	A. W. Woodward	363,875	May 31	2567	666 667	39	987
Obstetrical instrument	C. A. Farnham	365,913	July 5	221	57	40	43
Obstetrical supporter	J. J. Stephens	359,903	Mar. 22	2209	556	38	1339
Octave-coupler	J. S. Brand	373,122	Nov. 15	1269	336	41	723
Octave-coupler	L. K. Fuller	367,902	Aug. 9	826	222	40	617
Octave-coupler	A. H. Hammond	364,410	June 7	284	78	39	1142
Octave-coupler	J. A. Hendrick	356,939	Feb. 1	269	75	38	471
Octave-coupler	J. A. Warren	372,727	Nov. 8	658	180	41	604
Odometer	H. O. Brooks	365,043	June 21	1216	321	39	1332
Oil-bag for distributing oil on water	E. A. Hayes	371,194	Oct. 11	654	167	41	137
Oil-burner	L. J. Atwood	360,843	Apr. 12	633	168	39	126
Oil-burner. Water-base	D. Moore	370,883	Oct. 4	199	52	41	39
Oil-burning attachment	W. Snyder	374,433	Dec. 6	371	97	41	1117
Oil-cake-molding machine	W. F. Shaffer	372,574	Nov. 1	430	115	41	551
Oil-can	W. W. Hills	365,130	June 21	1355	358	39	1355
Oil-can	J. Marker	372,160	Oct. 25	2061	527	41	426
Oil-can	E. V. Runion	372,332	Nov. 1	69	21	41	484
Oil-can and lamp-filler	J. M. Coulter	367,273	July 26	2095	566	40	420
Oil-can holder	E. G. Bruner	370,004	Sept. 13	997	262	40	1230
Oil-can. Siphon	C. N. Tyler	365,157	June 21	1390	367	39	1363
Oil-can stopper and spout	R. Dreyer	356,529	Jan. 25	1759	458	38	358
Oil-can. Vented	A. Hallowell	358,811	Mar. 1	575	143	38	1010
Oil-cans. Air-valve for	L. H. Foss	362,072	May 3	29	9	39	478
Oil-cloth. Manufacture of	H. L. and I. H. Storey	369,414	Sept. 6	142		40	1059
Oil-cloth. Stair and table	A. F. Buchanan	357,950	Feb. 15	1748		38	765
Oil compound. Rosin	D. J. Ogilvy	374,370	Dec. 6	287		41	1101
Oil-cup	J. E. Dunnigan	373,059	Nov. 15	1176	315	41	706
Oil-cup	E. Lunkenheimer. (Reissue)	10,819	Mar. 15	1729	439	38	1236
Oil-cup	S. D. Mershon	373,995	Nov. 29	2572	691	41	989
Oil-cup	J. H. Porter and P. Miller	371,216	Oct. 11	686	176	41	144
Oil-cup	J. M. Smyth	365,547	June 28	1973	514	39	1487
Oil-cup	W. H. Thomas	369,265	Aug. 30	2746	732	40	1012
Oil-cup. Lubricating	S. P. Lathrop	374,979	Dec. 20	1190	309	41	1294
Oil from cotton-seed. Extracting	R. Hunt and E. S. Wilson	369,857	Sept. 13	754		40	1186
Oil-mills. Water-ball breaker for	W. Krutzsch	375,165	Dec. 20	1453	380	41	1344
Oil on the surface of the sea. Apparatus for distributing	F. D. Montague	364,538	June 7	481	130	39	1178
Oil or gasoline can	O. C. Thompson, Jr.	368,983	Aug. 30	2373	631	40	939
Oil-press	F. Jourdan	366,398	July 12	881	236	40	174
Oil-press	J. L. Moss and N. Littell	373,473	Nov. 22	1807	481	41	834
Oil-press	J. H. Vaile	363,701	May 24	2323	603	39	935
Oil-press cloth	T. Bennetts	372,110	Oct. 25	1987	510	41	412
Oil-press mat	G. S. Andres	367,127	July 26	1885	511	40	380
Oil-press plate	C. Woodman	369,761	Sept. 13	611	165	40	1159

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Oil-presses. Electric alarm and recorder for.....	E. W. Thompson	371,640	Oct. 18	1273	330	41	266
Oil. Process of refining and clarifying crude cotton-seed	R. Hunt and E. S. Wilson	365,921	July 5	236	.....	40	46
Oil. Refining hydrocarbon	T. G. Hall	372,672	Nov. 8	579	.....	41	589
Oil-tank. Measuring	J. L. Geier	360,289	Mar. 29	2837	721	38	1462
Oil-tank. Measuring	W. T. Withers	364,326	June 7	159	44, 45	39	1119
Oil. Treating and refining cocoanut	A. P. Ashbourne	356,398	Jan. 18	1575	.....	38	316
Oil-vapor heater	W. W. Batchelder, Jr.	373,429	Nov. 22	1745	{ 462 463	{ 41	822
Oils. Apparatus for refining illuminating and lubricating	H. Goldwater	366,720	July 19	1340	359	40	271
Oils. Desulphurizing and purifying petroleum.....	D. M. Kennedy	370,950	Oct. 4	314	.....	41	62
Oiler	C. W. Booth and T. Brabson	368,183	Aug. 16	1225	328	40	700
Oiler	A. Moyes	372,634	Nov. 1	517	141	41	568
Oiler	E. L. Rand	369,125	Aug. 30	2572	683	40	977
Oiler	T. B. Wilkinson and J. L. Cutler	360,748	Apr. 5	499	128	39	94
Oiler and attachment for vehicles	J. Butcher	369,631	Sept. 6	443	124	40	1119
Oiler and wiper for commutators	J. Snowberger. (Reissue)	10,816	Mar. 8	1175	305	38	1127
Oiler. Automatic	J. B. Purvis	367,444	Aug. 2	115	33	40	473
Oiler. Automatic	J. T. Smith	365,153	June 21	1384	366	39	1361
Oiler. Car-axle	J. Gibbons	355,313	Jan. 4	28	8	38	7
Oiler for car-axles	J. Gibbons	365,063	June 21	1255	{ 330 331	{ 39	1338
Oiler. Mechanical	C. Crothers	355,757	Jan. 11	638	166	38	134
Oiling apparatus	D. H. Hill	369,180	Aug. 30	2638	700	40	991
Oiling apparatus for vertical engines	J. H. Wilkinson	360,747	Apr. 5	497	128	39	93
Oiling-can	T. B. Jeffery	358,932	Mar. 8	768	192	38	1050
Ointment	H. V. Knaggs	372,852	Nov. 8	864	.....	41	639
Oliver	A. and E. Welsh	357,255	Feb. 8	752	195	38	569
Open-head spring	W. W. Courter	361,991	Apr. 26	2306	600	39	451
Opening and scutching machine	W. and W. Lord	373,899	Nov. 29	2440	655	41	963
Opera-chair	W. Y. Ober	374,424	Dec. 6	361	95	41	1115
Opera-chair. Folding	J. Jackson	365,522	June 28	1936	504	39	1480
Opera-glass	F. Scheidig	370,975	Oct. 4	358	88, 89	41	71
Opera or school chair	M. Donovan	356,222	Jan. 18	1326	250	38	269
Operating-chair	T. A. Long	370,071	Sept. 20	1097	{ 290 291	{ 40	1256
Operating-table and lounge. Combined	J. Poolman and F. R. Marks	357,688	Feb. 15	1384	364	38	697
Operating-table and lounge. Convertible	B. Marshall	366,783	July 19	1423	381	40	285
Optical recording-instrument	H. G. J. Stang	373,206	Nov. 15	1409	372	41	748
Orange-grader	J. W. Keeney	374,680	Dec. 13	728	191	41	1198
Orange sizing and assorting machine	T. Hiatt	369,939	Sept. 13	858	236	40	1211
Oranges and other fruit. Machine for sizing	A. Ayer	363,974	May 31	2723	{ 705 706	{ 39	1016
Oranges. Apparatus for assorting	G. S. Riggs	363,084	May 17	1441	{ 381 382	{ 39	757
Ordnance	E. S. Hunt	364,720	June 14	722	192	39	1233
Ordnance. Apparatus for adjusting and retaining the sights for	H. W. Jones	367,815	Aug. 9	701	189	40	591
Ordnance. Breech-loading	A. De Brynk	371,828	Oct. 18	1553	401	41	324
Ordnance. Breech-loading	W. H. Driggs	360,798	Apr. 5	562	{ 146 147	{ 39	106
Ordnance. Breech-loading	G. Quick	370,657	Sept. 27	1960	{ 518 519	{ 40	1425
Ordnance. Breech-loading	T. Yates	360,942	Apr. 12	781	203	39	151
Ordnance. Hydraulic mechanism for operating	C. H. Murray	374,990	Dec. 20	1203	313	41	1296
Ordnance-sights. Mechanism for adjusting and retaining	G. Stuart	371,286	Oct. 11	782	{ 200 201	{ 41	161
Ordinates. Apparatus for placing and obtaining the mean value of	J. G. Claud-Mantle	359,499	Mar. 15	1556	397	38	1204
Ore and rock crushing and pulverizing machine	H. Bradford	359,495	Mar. 15	1549	396	38	1203
Ore-concentrator	F. A. Herring	359,674	Mar. 22	1845	468	38	1274
Ore-concentrator	J. A. Jones	370,145	Sept. 20	1209	320	40	1277
Ore-concentrator	H. F. Learnard	366,631	July 12	1208	323	40	239
Ore-concentrator	C. J. Paine	370,646	Sept. 27	1944	515	40	1422
Ore-concentrator	J. H. Pemberton	368,683	Aug. 23	1939	515	40	847
Ore-concentrator	G. D. Stonestreet	365,279	June 21	1566	408	39	1395
Ore-crusher	P. S. Balkwill	370,002	Sept. 13	990	{ 260 261	{ 40	1229
Ore-crusher	F. A. Huntington	356,044	Jan. 11	1069	281	38	216
Ore crusher and granulator	A. J. Cristy and E. O. Bennett	364,480	June 7	388	{ 105 106	{ 39	1161
Ore-detector. Electrical	L. Mellett	367,422	Aug. 2	91	24	40	468
Ore-feeder	J. and J. H. Hendy	365,518	June 28	1930	{ 502 503	{ 39	1478
Ore-indicator. Electric	L. Mellett and J. Prince	367,541	Aug. 2	268	76	40	503
Ore-jigger	D. Hill and G. W. Hall	372,469	Nov. 1	274	75	41	522
Ore-pulverizer	N. Clement	357,369	Feb. 8	896	{ 236 237	{ 38	597
Ore-pulverizer	E. C. Griffin	360,682	Apr. 5	406	{ 103 104	{ 39	76
Ore-reducing furnace	W. L. McNair	368,481	Aug. 16	1656	442	40	783
Ore-roaster	V. Lord	365,393	June 28	1742	451	39	1441
Ore-roasting furnace	T. McGinnis	356,287	Jan. 18	1418	374	38	287
Ore-roasting kiln	H. H. Burden	357,456	Feb. 8	1023	{ 271 272	{ 38	620
Ore-screen stamp-mill	T. H. Trauernicht	359,750	Mar. 22	1962	497	38	1294
Ore-separator	P. W. Doherty	367,095	July 26	1842	{ 497 498	{ 40	373
Ore-separator	E. A. Wall	368,033	Aug. 9	1011	272	40	652
Ore separator and amalgamator	L. Newcomb	364,844	June 14	927	245	39	1268
Ore-separator. Electro-magnetic	G. W. Mansfield	359,085	Mar. 8	964	{ 247 248	{ 38	1088
Ores. Jig for separating	G. Conkling	371,427	Oct. 11	982	256	41	200

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Ores. Jigger for separating	F. T. Freeland	356,359	Jan. 18	1524	400	38	306
Ores. Machine for crushing	E. M. Bowick	362,198	May 3	191	57	39	510
Ores. Reduction of	H. Hirsching	365,746	June 28	2271	591	39	1542
Organ	T. Cahill	359,842	Mar. 22	2102	532	38	1320
Organ	G. B. Kelly	363,245	May 17	1659	435	39	799
Organ-action	H. W. Metcalf	362,646	May 10	828	226	39	634
Organ-action. Electric	H. L. Roosefelt	374,088	Nov. 29	2712	727	41	1017
Organ-case	E. H. Loring	357,559	Feb. 8	1187	312	38	652
Organ-coupler	H. W. Metcalf	362,645	May 10	827	226	39	634
Organ key-boards. Applying celluloid to	W. C. Zeidler	373,001	Nov. 8	1082	289	41	679
Organ octave-coupler	J. A. Smith	372,772	Nov. 8	736	199	41	616
Organ-pedal	J. S. Foley	367,034	July 26	1747	471	40	355
Organ-pedal	S. J. Laughlin	363,652	May 24	2248	582	39	921
Organ-pedal	H. Schwesinger and J. Courville	364,865	June 14	954	251	39	1274
Organ. Reed-	A. Bardell	373,714	Nov. 22	2171	581	41	905
Organ. Reed-	J. B. Hamilton	363,386	May 24	1849	486	39	845
Organ. Reed-	J. B. Hamilton	363,387	May 24	1851	487	39	845
Organ. Reed-	J. B. Hamilton	363,388	May 24	1852	487	39	845
Organ. Reed-	F. Little	369,725	Sept. 13	568	155	40	1152
Organ. Reed-	H. W. Metcalf	363,531	May 24	2074	537	39	888
Organ. Reed-	J. W. Trainer	356,700	Jan. 25	2001	525	38	404
Organ. Reed-	E. S. Votey	374,721	Dec. 13	789	207	41	1210
Organ. Reed	E. S. Votey and J. Courville	374,722	Dec. 13	790	207	41	1210
Organ-reed	C. N. Rand	358,571	Mar. 1	238	55	38	947
Organ-reed	L. A. Wood	373,118	Nov. 15	1263	334	41	722
Organ socket-board. Cabinet-	J. R. Hessler	369,938	Sept. 13	887	235	40	1211
Organ-stop-action	C. Fogelberg	355,984	Jan. 11	989	260	38	201
Organ-stop knob	R. Alden	369,310	Sept. 6	1	1	40	1035
Organ-stop knob	R. Alden	372,649	Nov. 8	543	149	41	583
Organ-valve	T. S. Cline	362,061	May 3	14	4	39	475
Organs. Automatic air-regulator for	J. W. Gilbert	364,243	June 7	60	18	39	1100
Organs. Bellows action for reed-	C. Fogelberg	355,985	Jan. 11	990	260	38	201
Organs. Coupler for reed-	J. Hessler	357,598	Feb. 15	1250	328	38	673
Organs. Key-holding device for	G. B. Kelly	361,949	Apr. 26	2236	582	39	440
Organs. Octave-coupler for	A. H. Hammond. (Reissue)	10,832	May 3	575	160	39	585
Organs. Pedal attachment for reed-	L. A. Subers	361,970	Apr. 26	2279	592	39	446
Organs. Pedal-cover for	J. S. Foley	362,266	May 3	276	77	39	527
Organs. Pneumatic action for	G. S. Hutchings	375,356	Dec. 27	1701	447	41	1401
Organs. Pneumatic action for	G. Sander	367,666	Aug. 2	463	127	40	539
Organs. Pneumatic motor for	R. W. Pain and W. B. Tremaine	356,421	Jan. 18	1612	422	38	322
Organs. Reed-board for	J. Courville	366,997	July 19	1697	456	40	337
Organs. Stop-action for	J. E. Olds	361,887	Apr. 26	2156	559	39	425
Organs. Swell for pipe	H. D. Wilkins	361,562	Apr. 19	1657	429	39	326
Orguinettes. Attachment for	R. M. Lowne	369,293	Aug. 30	2785	742	40	1020
Ornamental fabric	L. F. Fechtman	359,142	Mar. 8	1039	270	38	1102
Ornamental frame	L. M. Pratt	369,410	Sept. 6	137	40	40	1058
Oscillating engine	S. Maltby	365,267	June 21	1546	403	39	1392
Oscillating engine	W. L. Todd	357,248	Feb. 8	739	192	38	567
Oscillating engine	F. L. Wheeler	372,348	Nov. 1	95	27, 28	41	489
Oscillating engine	L. J. Wing and T. A. Richards	363,496	May 24	2021	527	39	879
Outline-transfer tool	F. W. Davenport	362,724	May 10	934	255	39	655
Outsoles. Laying	F. F. Raymond, 2d	357,335	Feb. 8	855	223	38	588
Oven	H. F. Bartlett	373,428	Nov. 22	1745	462	41	822
Oven. Baker's	E. A. C. Petersen	363,416	May 24	1893	498	39	853
Oven. Baker's	A. T. Simpkins	355,568	Jan. 4	357	95, 96	38	72
Oven. Baker's	H. Wild	366,363	July 12	836	224	40	165
Oven. Baking	J. Junker	359,789	Mar. 22	2026	513	38	1306
Oven. Baking	B. B. Van Derveer	366,138	July 5	528	142	40	100
Oven cover. Bake-	B. E. Sperry	361,903	Apr. 26	2174	564	39	428
Oven-door	H. Born	374,391	Dec. 6	312	83	41	1105
Oven-door	J. R. Conrad	374,889	Dec. 13	1027	269	41	1255
Oven for tempering wire, &c	E. Clifton	356,350	Jan. 18	1510	397	38	304
Oven front. Coke-	E. H. Bradley	369,094	Aug. 30	2534	672	40	968
Oven. Gasoline-	J. Ringen	371,478	Oct. 11	1045	272	41	212
Oven-grate	J. H. Allyn	369,831	Sept. 13	713	192	40	1178
Oven. Portable	M. C. Root	371,151	Oct. 4	593	152	41	117
Ovens. Illuminating device for bakers'	J. Peterselka	361,714	Apr. 26	1899	492	39	378
Ovens. Illuminator for	F. H. Van Houten	356,018	Jan. 11	1030	271	38	208
Overalls	A. Bookman	362,710	May 10	912	249	39	650
Overalls	B. G. Corser	366,621	July 12	1196	320	40	236
Overalls	J. F. Diggs	367,198	July 26	1978	535	40	399
Overalls, &c	G. White	360,979	Apr. 12	839	215	39	161
Overcheck spreader or bar	N. F. Anderson	357,112	Feb. 1	545	141	38	522
Overcoats and cloaks. Device for assisting in putting on	J. P. Gilchrist and J. B. Dunn	361,059	Apr. 12	958	242	39	182
Overshoe	H. W. Burr	360,795	Apr. 5	559	145	39	105
Overshoe	M. M. Clark and P. McKernan	371,758	Oct. 18	1428	368	41	299
Overshoe	F. D. Fry and H. W. Benedict	364,006	May 31	2761	716	39	1024
Overshoe	F. D. Fry and H. W. Benedict	368,663	Aug. 23	1907	507	40	840
Overshoe-fastener	W. Kennedy	364,022	May 31	2784	721	39	1029
Overshoe-heel	J. L. MacIlvaine	368,479	Aug. 16	1655	441	40	783
Overshoe. Rubber	S. L. Smithers	366,266	July 12	710	192	40	142
Ox-bow	L. Rundell	366,883	July 19	1556	417	40	311
Ox-shoes. Die for forging	W. Pearce. (Reissue)	10,831	Apr. 26	2390	624	39	466
Ox-shoes. Die for forming	J. Deeble	359,961	Mar. 22	2301	578	38	1356
Oxide of iron from pyrites. Making red	A. D. Ledoux	360,967	Apr. 12	823		39	158

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Oxidizing oils and tar. Apparatus for.....	A. F. Andrews	366,991	July 19	1691	455	40	336
Oxygen from air. Apparatus for obtaining.....	L. Q. and A. Brin	359,424	Mar. 15	1444	{ 369 370 }	{ 38 }	1184
Oyster-dredge.....	O. Cook	373,646	Nov. 22	2079	555	41	885
Oyster-frier.....	A. G. Morris.....	372,380	Nov. 1	146	42	41	497
Oyster-package.....	M. H. Dotson.....	374,119	Nov. 29	2751	739	41	1024
Oyster-tongs.....	C. L. Marsh	374,195	Dec. 6	42	11	41	1054
Oyster-tongs.....	S. Peterson.....	371,967	Oct. 25	1768	458	41	374
Ozone apparatus.....	A. and L. Q. Brin.....	361,923	Apr. 26	2200	571	39	433
Package. Air-tight butter or other.....	E. F. Badgley	372,285	Nov. 1	3	1	41	471
Package-carrier.....	S. W. Barr.....	358,717	Mar. 1	444	108	38	986
Package-conveyer.....	J. M. Smith	363,857	May 31	2546	661	39	984
Package-fastening device.....	H. Inman.....	364,352	June 7	197	55	39	1126
Package for confections, &c.....	A. Schemmel.....	355,721	Jan. 11	590	154	38	126
Package for fruit, &c. Cell.....	S. H. Smith. (Reissue).....	10,876	Oct. 18	1686	436	41	349
Package-holder.....	C. W. Dudley.....	368,138	Aug. 9	1154	306	40	678
Package-holder.....	N. E. Frost.....	360,769	Apr. 5	528	137	39	99
Packages. Machine for wrapping.....	W. S. Jarbo	367,637	Aug. 2	411	{ 113 114 115 116 }	{ 40 }	529
Package-wrapper.....	J. S. Voorhees	374,281	Dec. 6	147	39	41	1075
Packing.....	J. L. Law, Jr.....	374,796	Dec. 13	896	235	41	1231
Packing and show box.....	J. W. De Graff.....	365,245	June 21	1518	396	39	1386
Packing and storing vessel.....	E. Lyon.....	358,863	Mar. 8	666	167	38	1031
Packing apparatus.....	F. Wolf.....	365,217	June 21	1464	386	39	1378
Packing-box.....	J. B. Sword.....	358,232	Feb. 22	2159	569	38	846
Packing-box and exhibiting-stand. Combined.....	D. M. Somers.....	361,652	Apr. 19	1805	{ 468 469 }	{ 39 }	354
Packing-can.....	H. R. Gillingham	365,064	June 21	1256	331	39	1338
Packing-case.....	A. F. Temple.....	361,195	Apr. 12	1168	295	39	222
Packing device for piston-rods.....	H. S. Gaskill.....	367,806	Aug. 9	692	187	40	590
Packing. Elastic-core.....	A. Montgomery.....	375,501	Dec. 27	1890	494	41	1438
Packing for piston and valve rods.....	T. B. Purves.....	356,785	Feb. 1	55	16	38	433
Packing for stuffing-boxes. Metallic.....	J. G. Hughes	367,207	July 26	1988	{ 537 538 }	{ 40 }	401
Packing joints and other purposes. Composition for.....	T. McSweeney.....	356,411	Jan. 18	1593	.....	38	319
Packing. Metallic.....	W. E. and F. G. Brockett.....	375,258	Dec. 20	1568	411	41	1367
Packing. Metallic piston-rod.....	T. Falk.....	371,309	Oct. 11	814	208	41	167
Packing. Piston.....	A. Berrenberg.....	369,093	Aug. 30	2532	671	40	968
Packing. Piston.....	A. V. Fausek.....	358,442	Mar. 1	28	8	38	908
Packing. Piston.....	S. Ide.....	361,521	Apr. 19	1604	416	39	316
Packing. Piston.....	J. H. Kendall.....	360,963	Apr. 12	817	210	39	157
Packing. Piston.....	J. W. Walters.....	367,873	Aug. 9	779	210	40	608
Packing. Piston or valve rod.....	J. B. Deeds and E. Dawson.....	370,934	Oct. 4	292	72	41	58
Packing. Piston-rod.....	B. E. Foss.....	368,916	Aug. 23	2274	605	40	911
Packing. Piston-rod.....	W. T. Small and H. H. Warner.....	369,562	Sept. 6	341	94	40	1099
Packing-ring.....	C. Carter.....	368,189	Aug. 16	1233	330	40	701
Packing-ring for pistons.....	W. W. St. John.....	355,730	Jan. 11	604	157	38	128
Packing-ring for pistons.....	W. W. St. John.....	360,121	Mar. 29	2581	655	38	1414
Packing. Rod.....	A. Bradford.....	362,355	May 3	391	108	39	550
Packing. Rod.....	F. Pinch.....	374,905	Dec. 13	1054	276	41	1262
Packing. Self-adjusting rod.....	W. T. Small and H. H. Warner.....	356,014	Jan. 11	1026	270	38	207
Packing. Steam.....	C. A. Cleveland.....	360,560	Apr. 5	248	62	39	48
Packing. Steam piston and valve.....	D. H. Rice.....	355,950	Jan. 11	938	{ 245 246 }	{ 38 }	190
Packing-vessel.....	L. K. Bryant	368,704	Aug. 23	1972	523	40	852
Pad:							
See Coach-pad. Harness neck-pad.							
Collar-pad. Hoof-pad.							
Collar-supporting pad. Horseshoe-pad.							
Copy-press pad. Saddle-pad.							
Furniture-pad. Shoulder-pad.							
Harness-pad. Stair-pad.							
Harness back-pad.							
Pad.....	C. Cristadoro	372,458	Nov. 1	259	71	41	519
Pad-fastener.....	F. Benoit.....	372,294	Nov. 1	13	4	41	473
Padlock.....	J. L. Culberson.....	360,861	Apr. 12	662	174	39	130
Padlock.....	W. H. Filer.....	366,387	July 12	868	233	40	171
Padlock.....	O. J. Meinhard.....	367,829	Aug. 9	721	194	40	596
Padlock.....	F. W. Mix.....	361,072	Apr. 12	973	246	39	185
Padlock.....	C. D. Smith and R. H. Thompson.....	371,796	Oct. 18	1509	389	41	315
Padlock and chain.....	G. Bradford.....	373,218	Nov. 15	1430	377	41	752
Padlock. Combination.....	E. Kauffeld.....	366,588	July 12	1149	308	40	228
Padlock. Combination.....	E. Kauffeld.....	367,048	July 26	1765	{ 476 477 }	{ 40 }	358
Padlock for trunks, &c.....	L. Hillebrand.....	370,622	Sept. 27	1913	507	40	1416
Padlock. Permutation.....	E. Meise.....	372,425	Nov. 1	210	59	41	509
Padlock. Permutation.....	M. B. Palmer and C. S. Mudge.....	375,505	Dec. 27	1893	495	41	1439
Padlock. Permutation.....	A. Rodegard.....	373,155	Nov. 15	1326	351	41	733
Pail. Bait.....	F. W. Northrop.....	372,233	Oct. 25	2173	558	41	448
Pail-bottom.....	G. W. Lisk.....	374,687	Dec. 13	786	193	41	1200
Pail-cover fastening.....	A. H. Prescott.....	365,703	June 28	2202	575	39	1529
Pail. Dinner.....	C. S. S. Baron.....	364,567	June 7	515	139	39	1185
Pail. Dinner.....	A. M. Bartlett and J. L. Touhy.....	365,457	June 28	1831	476	39	1458
Pail. Dinner.....	W. Bord and G. H. Ennis.....	373,433	Nov. 22	1750	{ 463 464 }	{ 41 }	823
Pail. Dinner.....	J. Gloeckner.....	368,469	Aug. 16	1645	439	40	781
Pail. Dinner.....	F. Maranville.....	365,834	July 5	104	29	40	22
Pail. Dinner.....	J. Robinson.....	356,852	Feb. 1	155	41	38	451
Pail. Milk.....	J. F. McMillin.....	370,639	Sept. 27	1934	512	40	1420
Pail or barrel cover.....	J. M. Bulkley.....	361,575	Apr. 19	1688	436	39	330
Pails. Heating device for dinner.....	F. W. Seymour.....	369,412	Sept. 6	140	40, 41	40	1059

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pails, tubs, &c. Method of and apparatus for making fibrous vessels, such as	L. Tobey	368,794	Aug. 23	2098	{ 555 556	{ 40	875
Paint	T. Munson	374,266	Dec. 6	130	.....	41	1072
Paint	G. W. Swan	369,301	Aug. 30	2800	.....	40	1023
Paint and paint compounds	G. W. Banker	369,385	Sept. 6	105	.....	40	1053
Paint-box	F. E. Heinig	363,894	May 31	2588	673	39	991
Paint-breamer	T. Rooney and A. L. Burtis	357,633	Feb. 15	1306	343	38	683
Paint-can	W. Vogel	375,517	Dec. 27	1910	500	41	1442
Paint-can press	W. D. Carter	366,619	July 12	1194	319	40	236
Paint-can press	J. M. Mungiven	356,205	Jan. 18	1300	344	38	263
Paint compound	R. K. Burt	365,727	June 28	2241	.....	39	1536
Paint from cans. Press for removing	N. P. Burgess	367,698	Aug. 2	514	141	40	548
Paint from recalcined silicate iron slag. Manufacture of	J. P. Perkins	363,673	May 24	2275	.....	39	927
Paint-mixer	J. T. McEunaney	366,784	July 19	1425	381	40	285
Paint. Mixed	H. E. A. Saale	356,505	Jan. 25	1732	.....	38	353
Paint. Phosphorescent	J. H. Thorp	362,860	May 10	1122	.....	39	689
Paint-press	J. W. and A. Kent	367,816	Aug. 9	702	190	40	592
Paint. Roofing	J. M. Barber and A. W. Lickly	364,887	June 14	985	.....	39	1220
Paint. Roofing	J. L. Rice	364,544	June 7	490	.....	39	1180
Paint. Water-proof roof	W. S. Walker and J. L. Miller	364,065	May 31	2840	.....	39	1040
Painter's hacking-knife	W. F. Vaché	358,234	Feb. 22	2160	570	38	846
Painters or glaziers. Combined tool for	J. E. Orbold	367,228	July 26	2032	547	40	409
Painter's striping-instrument	G. A. Krichbaum	355,402	Jan. 4	145	38	38	30
Painting-machine	W. T. Johnson	356,201	Jan. 18	1296	{ 342 343	{ 38	263
Painting-machine	W. Schwartz	367,242	July 26	2051	553	40	412
Painting-machine	P. H. Shine	371,984	Oct. 25	1786	463	41	378
Painting sheet-metal roofing	B. F. Caldwell and W. F. Peterson	374,112	Nov. 29	2739	735	41	1022
Pallet	C. Seybold	358,791	Mar. 1	539	132	38	1004
Pamphlet-cover presser	E. F. Price	372,765	Nov. 8	709	196	41	613
Pan:							
See Amalgamating-pan. Frying-pan.							
Ash-pan. Locomotive ash-pan							
Bake-pan. Mining-pan.							
Bed-pan. Poultice-pan.							
Dust-pan.							
Pan	A. Bardell	369,832	Sept. 13	714	192	40	1178
Pan, dish, or other utensil	A. Bardell	356,343	Jan. 18	1503	395	38	303
Pan-lifter	G. A. Germond	360,218	Mar. 29	2723	689	38	1440
Pan lifter and turner	A. M. Burnham	372,965	Nov. 8	1030	276	41	668
Pans. Machinery for tinning or retinning	J. Monto	372,555	Nov. 1	398	{ 107 108	{ 41	547
Panel. Lathing	A. Sommer	356,733	Jan. 25	2048	537	38	412
Panoramic device	J. S. Pihlström	371,900	Oct. 18	1671	431	41	346
Pantaloons	H. T. Caullet	365,296	June 21	1586	413	39	1399
Pantaloons. Device for stretching	F. C. Mensinga	364,838	June 14	919	243	39	1267
Pantaloons-protector	C. G. Lehmann and F. W. Rabenstein	362,519	May 10	633	179	39	601
Pantaloons-stretcher	G. Brinton	361,260	Apr. 19	1259	322	39	250
Pantaloons-stretcher	O. S. Noyes	361,834	Apr. 26	2072	539	39	409
Pantograph	C. S. Riché	364,043	May 31	2813	730	39	1054
Pants	F. Kahn, H. and L. Morris	364,115	May 31	2905	754	39	1052
Pants-stretcher	E. Bommer	356,864	Feb. 1	172	46	38	454
Paper and other material. Apparatus for waxing	S. M. Chester	360,373	Mar. 29	2948	749	38	1481
Paper and process for the manufacture thereof. Felt.	F. Beck	359,531	Mar. 15	1608	.....	38	1215
Paper, &c. Apparatus for drying	G. L. Jaeger	359,446	Mar. 15	1474	377	38	1190
Paper. Apparatus for drying coated sheets of	F. X. Hooper and W. Hollingsworth	363,335	May 17	1784	{ 467 468	{ 39	823
Paper. Apparatus for holding toilet	O. H. Hicks	357,993	Feb. 15	1814	476	38	777
Paper. Apparatus for waxing	I. Sherck and J. Batig, Jr	362,547	May 10	673	189	39	607
Paper bag	E. E. Claussen	363,596	May 24	2164	561	39	906
Paper-bag and goods holder	N. E. Drake	362,256	May 3	266	74	39	525
Paper-bag holder	F. H. Smith	365,643	June 28	2110	550	39	1512
Paper-bag holder	W. A. Simmons	370,563	Sept. 27	1817	483	40	1397
Paper-bag holder	G. W. Tischer	362,680	May 10	875	238	39	643
Paper-bag machine	T. Baker	373,876	Nov. 29	2403	{ 645 646	{ 41	956
Paper-bag machine	E. E. Claussen	374,345	Dec. 6	252	67	41	1094
Paper-bag machine	H. R. Corkhill, Sr	361,746	Apr. 26	1939	{ 503 504 505 506	{ 39	385
Paper-bag machine	W. H. Honiss	374,361	Dec. 6	277	74	41	1099
Paper-bag machine	W. A. Lorenz and W. H. Honiss	361,951	Apr. 26	2238	{ 583 584 585 586	{ 39	440
Paper-bag machine	W. A. Lorenz and W. H. Honiss	374,309	Dec. 6	201	53	41	1083
Paper-bag machine	C. B. Stilwell	370,099	Sept. 20	1135	{ 301 302	{ 40	1263
Paper-bag reel	B. P. Cobb	355,973	Jan. 11	977	256	38	198
Paper bags. Machine for making	F. C. Belcher	356,441	Jan. 25	1641	{ 430 431	{ 38	336
Paper bags. Machinery for the manufacture of	W. C. Cross	363,729	May 24	2360	{ 612 613	{ 39	942
Paper barrel	G. S. Long	356,073	Jan. 11	1112	294	38	223
Paper-board	O. Macdaniel	368,540	Aug. 16	1742	463	40	799
Paper bottles. Manufacture of	L. H. Thomas	368,255	Aug. 16	1343	354	40	722
Paper box	S. E. Baker	362,481	May 10	583	{ 163 164	{ 39	591
Paper box	G. O. Blowers	356,093	Jan. 18	1152	305	38	237
Paper box	R. P. Brown	374,886	Dec. 13	1023	267	41	1255
Paper box	J. P. Buckingham	356,522	Jan. 25	1753	456	38	357

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Paper box.....	J. T. Crow.....	355,977	Jan. 11	982	{ 257 258 }	{ 38 }	199
Paper box.....	J. F. Diemer.....	368,819	Aug. 23	2134	566	40	883
Paper box.....	C. W. Elliott.....	359,435	Mar. 15	1459	373	38	1187
Paper box.....	F. N. Forster.....	358,806	Mar. 1	560	140	38	1008
Paper box.....	G. L. Jaeger.....	358,671	Mar. 1	376	{ 89 90 91 }	{ 38 }	973
Paper box.....	J. Jezalik.....	370,481	Sept. 27	1696	450	40	1376
Paper box.....	A. C. Jordan.....	362,583	May 10	724	201	39	616
Paper box.....	A. C. Jordan.....	370,483	Sept. 27	1698	451	40	1376
Paper box.....	S. H. Smith.....	362,675	May 10	866	236	39	641
Paper box.....	E. J. Trum.....	371,230	Oct. 11	703	181	41	147
Paper box. Angular.....	D. S. Clark.....	355,862	Jan. 11	795	209	38	161
Paper box. Angular.....	D. S. Clark.....	356,747	Feb. 1	11	4	38	425
Paper-box blanks. Machine for cutting and scoring.....	F. H. Allen.....	358,955	Mar. 8	796	{ 201 202 }	{ 38 }	1056
Paper-box-covering machine.....	G. W. Glazier.....	360,582	Apr. 5	275	68	39	53
Paper-box-covering machine.....	G. W. Glazier.....	360,583	Apr. 5	277	68	39	53
Paper box. Folding.....	J. T. Crow.....	371,925	Oct. 25	1704	442	41	362
Paper. Box for toilet.....	C. H. Dana.....	374,586	Dec. 13	604	157	41	1172
Paper-box machine.....	A. Brehmer.....	366,146	July 5	538	145	40	101
Paper-box machine.....	G. H. Cushman.....	364,161	May 31	2979	774	39	1066
Paper-box machine.....	H. A. House.....	365,072	June 21	1264	334	39	1340
Paper-box machine.....	G. L. Jaeger.....	372,624	Nov. 1	502	{ 137 138 }	{ 41 }	565
Paper-box machine.....	F. L. Stone.....	365,879	July 5	171	44	40	34
Paper-box machine.....	M. F. Wilson.....	369,900	Sept. 13	826	219	40	1200
Paper-box machine.....	A. A. Wood.....	365,766	June 28	2299	598	39	1547
Paper-box machines. Printing mechanism for.....	H. P. Fiske.....	357,553	Feb. 8	1178	310	38	650
Paper box or basket.....	H. M. Albert.....	355,496	Jan. 4	262	69	38	53
Paper boxes. Machine for making bands for.....	J. Godfrey.....	365,124	June 21	1346	356	39	1354
Paper boxes. Machine for staying.....	C. W. Hobbs.....	367,397	Aug. 2	57	{ 14 15 16 }	{ 40 }	461
Paper. Cabinet for sanitary toilet.....	W. Flint.....	363,379	May 24	1837	483	39	843
Paper cabinet. Toilet.....	J. P. Onderdonk.....	373,301	Nov. 15	1546	408	41	773
Paper-calender rolls. Leader for.....	G. Dunn.....	364,710	June 14	711	189	39	1231
Paper-calendering machine.....	P. R. Thom.....	359,294	Mar. 15	1247	324	38	1147
Paper-cleaning compound.....	W. J. Dane.....	362,942	May 17	1244	.....	39	718
Paper-clip.....	L. F. Ad.....	358,243	Feb. 22	2173	573	38	848
Paper-clip.....	G. McKibbin.....	355,943	Jan. 11	929	243	38	189
Paper-clip.....	F. A. Weeks.....	356,810	Feb. 1	95	26	38	441
Paper. Composition for waterproofing.....	L. Bastet.....	361,041	Apr. 12	936	.....	39	178
Paper cones. Making.....	M. C. Stone.....	371,988	Oct. 25	1790	{ 464 465 }	{ 41 }	379
Paper cones while waterproofing them. Holder and gage for.....	M. C. Stone.....	371,990	Oct. 25	1794	465	41	379
Paper. Copying.....	E. I. Nichols.....	359,170	Mar. 8	1071	.....	38	1109
Paper. Creasing and folding.....	F. H. Richards.....	366,188	July 5	594	160	40	112
Paper-cutter.....	F. W. Drosten.....	365,334	June 21	1641	428	39	1410
Paper-cutter.....	F. W. Drosten.....	366,939	July 19	1624	435	40	324
Paper-cutter.....	J. F. Meador.....	372,483	Nov. 1	292	80	41	526
Paper-cutting machine.....	C. M. Harding.....	371,579	Oct. 18	1193	311	41	250
Paper-cutting machine.....	E. J. Sterling.....	370,287	Sept. 20	1401	{ 376 377 }	{ 40 }	1314
Paper decorations. Manufacture of.....	J. E. Darnall.....	360,000	Mar. 29	2365	596	38	1375
Paper. Decorative.....	F. M. Roosa.....	368,493	Aug. 16	1679	447	40	787
Paper. Device for feeding and delivering toilet.....	H. Hubbell.....	369,855	Sept. 13	752	{ 201 202 }	{ 40 }	1185
Paper-drying machine.....	A. A. Simonds.....	366,893	July 19	1567	420	40	313
Paper-fastener.....	T. R. Hoffman.....	374,070	Nov. 29	2679	720	41	1010
Paper-fastener.....	E. Kempshall.....	356,202	Jan. 18	1297	343	38	263
Paper-fastener.....	E. H. Middleton.....	361,439	Apr. 19	1504	388	39	296
Paper-feeding device.....	C. S. Onderdonk.....	371,473	Oct. 11	1040	271	41	211
Paper filtering stones or tiles. Machine for manufacturing.....	L. Snell.....	356,508	Jan. 25	1736	453	38	354
Paper fixture. Toilet.....	J. T. and W. J. Donovan.....	374,399	Dec. 6	322	85	41	1107
Paper-folding machine.....	R. T. Brown.....	366,758	July 19	1392	372	40	280
Paper-folding machine.....	J. W. Porter.....	364,293	June 7	119	34 35	39	1112
Paper-folding machine.....	J. E. Tetley and J. S. Hill.....	358,174	Feb. 22	2081	{ 547 548 549 550 }	{ 38 }	831
Paper-folding machinery.....	R. Cundall.....	371,877	Oct. 18	1637	{ 422 423 }	{ 41 }	340
Paper-folding machines. Carrier-tape mechanism for.....	J. H. Stonemetz.....	355,354	Jan. 4	88	24	38	19
Paper-folding machines. Double-feed mechanism for.....	J. H. Stonemetz.....	355,422	Jan. 4	170	44 45	38	34
Paper-folding machines. Folding-roller for.....	W. Conquest.....	367,352	July 26	2218	595	40	442
Paper-folding machines. Tapeless sheet-conveyer mechanism for.....	J. H. Stonemetz.....	355,353	Jan. 4	87	23	38	18
Paper for bags, &c. Manufacture of glazed.....	L. Elias.....	372,408	Nov. 1	184	.....	41	504
Paper-hanger.....	J. Randolph.....	369,029	Aug. 30	2436	647	40	950
Paper-hanger's folding table.....	E. M. Addaman.....	375,523	Dec. 27	1918	503	41	1444
Paper-holder.....	J. Burnett.....	366,200	July 12	611	{ 166 167 }	{ 40 }	124
Paper-holder.....	M. Vernon.....	366,902	July 19	1578	422	40	315
Paper holder and binder.....	E. Halsey and J. Pomeroy.....	373,184	Nov. 15	1371	364	41	741
Paper holder and cutter. Roll.....	T. P. Chapman and A. L. Whitley.....	369,692	Sept. 13	525	145	40	1144
Paper. Holder for rolls of toilet or wrapping.....	S. Wheeler.....	371,290	Oct. 11	788	202	41	162
Paper holder. Toilet.....	C. G. Mortimer.....	362,031	Apr. 26	2365	616	39	461
Paper holder. Toilet.....	J. H. Sperry.....	363,694	May 24	2312	600	39	933
Paper holder. Wrapping.....	R. C. Gilliland.....	364,915	June 14	1025	268	39	1287

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page.
Paper into rolls, &c. Machinery for unreeling, perforating, and rereeling	W. W. Colley	368,705	Aug. 23	1973	{ 523 } 524	{ 40 } 39	853 145
Paper-jogger	G. H. Sedgwick	360,921	Apr. 12	745	196	39	145
Paper-lining machine	A. Segal	374,498	Dec. 6	468	121	41	1135
Paper. Machine for cutting and winding	W. W. Coley	365,796	July 5	49	14	40	11
Paper. Machine for drying	A. A. Simonds	366,892	July 19	1563	419	40	313
Paper. Machine for making sheathing	W. H. H. Childs	361,050	Apr. 12	947	239	39	180
Paper machine. Paraffine	D. A. Andrews	367,886	Aug. 9	799	216	40	612
Paper. Machinery for depositing and distributing pulverized metal, &c., on	T. Wild	371,651	Oct. 18	1289	334	41	670
Paper-machines. Coloring attachment for	G. G. Ancira	368,803	Aug. 23	2111	559	40	878
Paper-machines. Screen-cleaner for	F. M. Edmunds	360,089	Mar. 29	2517	641	38	1403
Paper-makers' drying-felt. Cotton and woolen	J. Kenyon	355,766	Jan. 11	649	169	38	136
Paper-making machine	G. Ferguson	357,474	Feb. 8	1051	278	38	626
Paper-making. Machine for feeding straw into steam-boilers used in	J. Disman	358,923	Mar. 8	757	189	38	1048
Paper-making machines. Automatic felt or wire guide for	J. A. Pierce	361,892	Apr. 26	2161	560	39	425
Paper-making machines. Stuff-chest for	R. Smith	369,747	Sept. 13	591	161	40	1155
Paper. Making water-lines on	C. M. Schmidt	373,803	Nov. 22	2299	615	41	928
Paper. Manufacture of	S. S. Stevens	366,700	July 19	1309	{ 351 } 352	{ 40 } 38	265 308
Paper. Manufacture of water-proof building	I. W. Marshall	356,367	Jan. 18	1533	.....	38	308
Paper may be made to adhere to metal. Process by which	D. Macdonald	357,213	Feb. 8	695	.....	38	559
Paper. Mechanism for operating a roll of	A. G. Hunter	364,822	June 14	892	235	39	1262
Paper-mills. Device for cleaning the shower-pipes used in	G. H. Boorn	374,290	Dec. 6	163	43	41	1078
Paper or board. Fire-proof	J. G. Merrill	363,905	May 31	2603	676	39	994
Paper or board. Fire-proof	J. G. Merrill	367,424	Aug. 2	94	25	40	469
Paper or file holder	E. W. Woodruff	358,240	Feb. 22	2168	572	38	848
Paper. Ornamenting	C. G. Mortimer	368,415	Aug. 16	1557	415	40	765
Paper package-case	T. F. W. Schmidt	366,886	July 19	1559	418	40	311
Paper-package fastening	T. F. W. Schmidt	371,098	Oct. 4	525	132	41	104
Paper-pail cover	T. F. W. Schmidt	369,559	Sept. 6	336	93	40	1098
Paper. Preservative	J. T. and H. W. Morgan	372,861	Nov. 8	877	.....	41	641
Paper. Process of and apparatus for making embossed	J. E. Taylor	361,849	Apr. 26	2098	545	39	414
Paper-pulp digester	C. Bremaker	373,810	Nov. 29	2313	620	41	939
Paper-pulp digester	S. R. Wagg	373,703	Nov. 22	2154	577	41	902
Paper-pulp. Electrical apparatus for separating metallic particles from	C. H. Atkins	360,842	Apr. 12	632	167	39	125
Paper-pulp. Machine for forming vessels from	J. Stevens	355,625	Jan. 4	428	118	38	85
Paper-pulp. Machine for preparing	W. W. D. Jeffers	371,766	Oct. 18	1454	376	41	304
Paper-pulp or rag engine	E. H. Nacker	257,686	Feb. 15	1382	363	38	696
Paper-pulp. Process of and apparatus for manufacturing	H. Blackman	369,835	Sept. 13	721	{ 193 } 194	{ 40 } 38	1180 1218
Paper-pulp screen	C. Russell and P. H. Cragin	359,543	Mar. 15	1623	416	38	1218
Paper-pulp screen	C. Russell and P. H. Cragin	359,544	Mar. 15	1624	416	38	1218
Paper-pulp, &c., suspended in liquids. Separating apparatus for	R. Kron	365,343	June 21	1655	{ 432 } 433	{ 39 } 40	1413 227
Paper receptacle	O. H. Hicks	366,583	July 12	1139	305	40	227
Paper receptacle	O. H. Hicks	367,297	July 26	2141	576	40	427
Paper receptacle	O. H. Hicks	367,298	July 26	2142	576	40	428
Paper receptacle	O. H. Hicks	369,940	Sept. 13	889	236	40	1211
Paper receptacle	O. H. Hicks	374,474	Dec. 6	433	113	41	1129
Paper receptacle	O. H. Hicks	374,475	Dec. 6	434	113	41	1129
Paper roll. Wrapping or toilet	S. Wheeler	361,603	Apr. 19	1728	446	39	338
Paper-sack holder	L. V. Bryan	364,631	June 14	599	161	39	1 08
Paper. Sheathing	W. H. H. Childs	372,894	Nov. 8	927	250	41	650
Paper-stock. Apparatus for treating vegetable substances for making	A. Chambers	365,166	June 21	1403	370	39	1365
Paper-stock. Machine for treating rags, &c., for	C. F. Taylor	355,898	Jan. 11	861	224	38	174
Paper. Stretching and drying frame for sensitized	E. S. Crowell	362,429	May 3	499	141	39	572
Paper-stuff. Engine for cutting or beating, &c	R. Kron	357,998	Feb. 15	1820	{ 478 } 479	{ 38 } 39	778 924
Paper trays. Machine for making	W. S. McKinney	363,662	May 24	2258	{ 585 } 586	{ 39 } 39	924 772
Paper trimming and pasting machine	J. D. Hooper	363,141	May 17	1521	403	39	772
Paper tubes. Blank for	M. C. Stone	371,989	Oct. 25	1793	465	41	379
Paper tubes. Machine for making	T. Granger	373,655	Nov. 22	2091	{ 558 } 559	{ 41 } 40	888 16
Paper tubing. Manufacture of	W. H. Honiss	365,815	July 5	77	22	40	16
Paper. Water-proof composition for	W. H. Fay	369,700	Sept. 13	537	.....	40	1146
Paper. Waxing	C. A. Wilkinson	365,213	June 21	1460	385	39	1377
Paper. Waxing	C. A. Wilkinson and W. S. McDonald	374,025	Nov. 29	2610	700	41	997
Paper webs. Means for folding	C. Potter, Jr.	374,699	Dec. 13	756	198	41	1204
Paper-weight	C. W. Le Count	365,611	June 28	2070	540	39	1505
Paper-weight and cigar and ash holder. Combined	J. L. Russell	371,901	Oct. 18	1672	431	41	346
Paper. Wire-cloth to be used in the manufacture of	J. B. S. Maltby	367,990	Aug. 9	953	257	40	641
Paper with sand, emery, &c. Machine for coating	H. Slusser	366,037	July 5	397	108	40	75
Paper. Wrapping	W. H. H. Childs	362,249	May 3	258	.....	39	523
Parasol	W. H. Belknap	375,470	Dec. 27	1853	484	41	1431
Parcel-carrier	J. F. Muir	373,999	Nov. 29	2577	692	41	990
Parcel-holder. Portable	A. Koegel	365,389	June 28	1738	450	39	1440
Parcel or bundle holder	G. B. Rowe	367,321	July 26	2166	583	40	433
Parcel or cash carrier	J. F. Muir	373,998	Nov. 29	2575	692	41	990
Paring and coring machine. Apple	W. and H. A. Tripp	363,022	May 17	1359	{ 359 } 360	{ 39 } 38	740 38
Paring machine. Apple	C. E. Hudson	360,527	Apr. 5	196	48, 49	39	38
Paring machine. Fruit	F. R. Williams	370,914	Oct. 4	266	65, 66	41	52
Paring machine. Potato	H. J. Hyer	362,009	Apr. 26	2335	609	39	456
Parquetry	C. J. B. Jensen	363,960	May 31	2703	700	39	1012

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Partition for toilet-apartments. Movable.....	H. H. Sessions.....	371,982	Oct. 25	1785	463	41	378
Partition or beam.....	J. T. Fanning.....	371,931	Oct. 25	1717	444	41	364
Passenger-elevator.....	S. K. Humphrey.....	375,293	Dec. 20	1610	422	41	1375
Pasteboard. Machine for scoring and cutting.....	H. I. Nesmith.....	357,965	Feb. 15	1774	465	38	770
Pasteboard mailing-tube.....	G. E. Grimm.....	363,061	May 17	1414	374	39	751
Pasting apparatus.....	L. C. Crowell.....	360,860	Apr. 12	658	{ 173 174 }	{ 39 40 }	130
Pasting, gumming, and gluing machine.....	C. Seybold.....	367,452	Aug. 2	130	37, 38	40	476
Pasting-machine.....	J. R. Watson.....	359,301	Mar. 15	1256	326	38	1149
Pasting-machine. Hand.....	E. T. Hazeltine, J. J. Benzino, and F. A. Weld.....	362,006	Apr. 26	2331	608	39	455
Pattern:							
<i>See</i> Stove-lid pattern.							
Pattern.....	G. E. Frost.....	373,451	Nov. 22	1772	470	41	828
Pattern-holder.....	F. Mareck.....	367,218	July 26	2008	543	40	404
Pattern-maker's tram.....	W. S. Burroughs.....	370,313	Sept. 20	1436	385	40	1320
Pattern-marked fabric for garments.....	R. Jooss.....	355,874	Jan. 11	818	214	38	166
Patterns. Fastening together paper dress.....	F. Koewing.....	371,144	Oct. 4	584	149	41	115
Patterns. Mechanism for transferring.....	I. Marks.....	361,431	Apr. 19	1492	385	39	294
Pavement.....	J. G. Ketcham.....	364,594	June 7	551	.....	39	1192
Pavement.....	T. W. Moore.....	358,288	Feb. 22	2236	590	38	861
Pavement.....	E. A. Snow.....	369,478	Sept. 6	225	63	40	1076
Pavement. Artificial.....	E. J. De Smedt.....	375,273	Dec. 20	1589	417	41	1371
Pavement. Artificial.....	W. H. Jenkins.....	374,124	Nov. 29	2757	741	41	1028
Pavement. Artificial.....	J. W. MacKnight.....	373,295	Nov. 15	1534	405	41	775
Pavement. Asphalt.....	M. Macleod.....	361,953	Apr. 26	2250	.....	39	442
Pavement. Asphalt.....	J. Stansfield.....	375,018	Dec. 20	1241	.....	41	1303
Pavement, sidewalk, floor, &c.....	P. H. Jackson.....	371,845	Oct. 18	1583	409	41	330
Pavement. Street.....	D. Harger.....	360,152	Mar. 29	2632	666	38	1423
Pavements. Edging and joint plate for concrete.....	J. C. Hoyt.....	368,398	Aug. 16	1526	408	40	759
Paving and building blocks from slag. Machine for making.....	M. V. Steinmetz.....	360,785	Apr. 5	548	142	39	103
Paving block.....	S. M. Hoyt.....	364,928	June 14	1044	273	39	1290
Paving-block.....	L. B. Sawyer.....	360,364	Mar. 29	2936	746	38	1479
Paving-block for street-railway beds.....	A. J. Moxham.....	360,780	Apr. 5	543	141	39	102
Paving-blocks. Machine for cutting.....	C. D. Bennett.....	358,373	Feb. 22	2345	623	38	882
Pea-shooter.....	J. L. Vallier.....	369,485	Sept. 6	233	66	40	1078
Peach-stoner.....	J. H. Smith.....	361,093	Apr. 12	1007	254	39	192
Peanut-cleaner.....	C. W. Nicholson.....	369,071	Aug. 30	2502	663	40	963
Peanut-stripper.....	C. W. Nicholson.....	370,278	Sept. 20	1384	{ 371 372 }	{ 40 41 }	1310
Pedal.....	R. W. Tanner.....	372,776	Nov. 8	741	201	41	611
Peg-cutting machine.....	L. D. Schoonover.....	369,966	Sept. 13	929	247	40	1218
Pegging-jack.....	W. H. Baynard, Jr.....	362,869	May 10	1132	305	39	690
Pegging-jack.....	G. Dorwart.....	372,132	Oct. 25	2028	{ 519 520 }	{ 41 42 }	419
Pegging-jack.....	N. Kinney.....	374,744	Dec. 13	819	215	41	1216
Pegging-jack.....	I. Miller.....	363,906	May 31	2604	677	39	994
Pegging-jack.....	F. W. Stone.....	372,278	Oct. 25	2236	573	41	460
Pen and pencil holder.....	N. Clement.....	356,524	Jan. 25	1755	457	38	357
Pen and pencil holder. Combined.....	O. L. Cheney.....	368,934	Aug. 30	2308	613	40	926
Pen-cleaner.....	S. Darling.....	370,379	Sept. 27	1544	413	40	1349
Pen cleaner and holder.....	J. S. Rice and J. Edson.....	372,431	Nov. 1	220	61	41	511
Pen-cleaner sponge-cup.....	S. Darling.....	370,380	Sept. 27	1545	414	40	1349
Pen. Fountain.....	J. K. Bittenbender.....	370,599	Sept. 27	1876	498	40	1408
Pen. Fountain.....	J. Blair.....	362,709	May 10	911	248	39	650
Pen. Fountain.....	F. C. Brown.....	374,140	Nov. 29	2779	747	41	1029
Pen. Fountain.....	A. H. Cobb.....	357,176	Feb. 8	646	168	38	550
Pen. Fountain.....	D. C. Demarest.....	361,493	Apr. 19	1569	407	39	308
Pen. Fountain.....	A. Fyfe.....	367,752	Aug. 2	603	163	40	564
Pen. Fountain.....	J. Holland.....	356,123	Jan. 18	1198	318	38	245
Pen. Fountain.....	A. J. Kletzker.....	370,342	Sept. 20	1475	395	40	1328
Pen. Fountain.....	C. W. Livermore.....	363,526	May 24	2063	536	39	886
Pen. Fountain.....	R. Lockwood.....	369,016	Aug. 30	2414	641	40	946
Pen. Fountain.....	E. Marble, Jr.....	369,351	Sept. 6	65	18	40	1046
Pen. Fountain.....	J. B. Mitchell.....	373,677	Nov. 22	2117	566	41	894
Pen. Fountain.....	J. Schmackelsen.....	364,772	June 14	813	214	39	1247
Pen. Fountain.....	C. W. Taylor.....	361,468	Apr. 19	1540	398	39	302
Pen. Fountain.....	J. Ulrich.....	365,953	July 5	284	75	40	54
Pen. Fountain.....	W. Van De Mark.....	366,047	July 5	412	112	40	78
Pen. Fountain.....	P. E. Wirt.....	358,525	Mar. 1	168	40	38	934
Pen-fountain.....	J. F. Hotchkiss.....	368,590	Aug. 23	1808	482	40	821
Pen-fountain.....	J. S. Wood.....	359,702	Mar. 22	1888	479	38	1282
Pen-holder.....	A. T. Church.....	368,651	Aug. 23	1886	503	40	836
Pen-holder.....	V. M. Harris.....	365,810	July 5	72	21	40	15
Pen-holder.....	W. G. Ingram.....	365,307	June 21	1602	417	39	1402
Pen-holder.....	B. Lawrence.....	365,827	July 5	95	26	40	20
Pen-holder.....	F. H. Ludington.....	365,011	June 14	1164	305	39	1311
Pen-holder.....	W. G. R. Penley.....	355,554	Jan. 4	339	90	38	68
Pen-holder.....	M. I. Rodrigue.....	365,320	June 21	1621	422	39	1406
Pen-holder tip.....	H. Hewitt.....	360,298	Mar. 29	2845	724	38	1464
Pen or pencil holder.....	E. E. Forster.....	372,903	Nov. 8	936	253	41	652
Pen or pencil holder.....	S. J. Merriek.....	361,535	Apr. 19	1624	421	39	319
Pen. Ruling.....	C. A. F. Orlob.....	364,282	June 7	108	31	39	1110
Pen-wiper.....	P. D. and G. Horton.....	368,589	Aug. 23	1807	481	40	821
Pens and other articles. Holder for.....	C. W. Boman.....	363,582	May 24	2147	556	39	903
Pens and other articles. Holder for.....	C. W. Boman.....	363,584	May 24	2149	557	39	903
Pens. Instrument for re-dressing steel.....	L. M. H. M. Dahms.....	371,451	Oct. 11	1011	263	41	206
Pens, pencils, &c. Holder for.....	F. J. W. Fischer.....	356,996	Feb. 1	353	94	38	488
Pens, pencils, &c. Holder for.....	C. Stockmann.....	362,404	May 3	460	127	39	565
Pens. Roughening.....	C. S. Freer.....	362,885	May 10	1162	310	39	696
Pencil.....	W. C. Carlton.....	357,063	Feb. 1	451	120	38	505
Pencil.....	J. A. Crandall.....	364,220	June 7	29	9	39	1094
Pencil.....	B. B. Goldsmith.....	364,916	June 14	1026	268	39	1287

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Pencil.....	J. Hoffman.....	365,747	June 28	2274	591	39	1542
Pencil.....	A. Michael.....	370,881	Oct. 4	192	50	41	38
Pencil.....	T. O. L. Schrader.....	372,710	Nov. 8	626	171	41	599
Pencil. Addition.....	C. R. Thompson.....	356,561	Jan. 25	1813	475	38	368
Pencil-case.....	G. W. Mabie.....	374,194	Dec. 6	41	11	41	1054
Pencil-case and holder for crayons.....	R. Spear.....	362,121	May 3	96	30	39	492
Pencil-clasp.....	W. H. Sherman.....	366,132	July 5	521	141	40	99
Pencil, &c. Copying.....	H. S. Myers.....	358,746	Mar. 1	477	—	38	992
Pencil-holder.....	O. T. Fleming.....	361,583	Apr. 19	1701	439	39	333
Pencil-holder.....	O. Mussinan, Jr.....	368,160	Aug. 9	1183	316	40	684
Pencil-holder.....	M. Sachs.....	364,303	June 7	135	39	39	1114
Pencil-holder and book-binder. Combined.....	E. Butler.....	371,172	Oct. 11	626	160	41	131
Pencil-holder and cigar-cutter. Combined.....	P. E. Gonon.....	370,735	Sept. 27	2083	552	40	1447
Pencil-holder. Pocket.....	F. White.....	369,898	Sept. 13	824	218	40	1200
Pencil holder, sharpener, and eraser. Slate.....	W. H. Ostrander.....	366,791	July 19	1433	383	40	287
Pencil. Lead.....	P. Schrag.....	362,319	May 3	344	95	39	541
Pencil. Lead.....	P. E. Wirt.....	370,438	Sept. 27	1625	433	40	1363
Pencil or crayon holder.....	H. D. Caruso.....	362,933	May 17	1233	328	39	716
Pencil-sharpener.....	J. R. Baker, J. Craig, and G. Singleton.	370,001	Sept. 13	988	260	40	1228
Pencil-sharpener.....	B. S. Cohen.....	370,182	Sept. 20	1263	335	40	1287
Pencil-sharpener.....	S. Forrester.....	372,258	Oct. 25	2209	566	41	455
Pencil-sharpener.....	E. A. Gay.....	370,940	Oct. 4	301	73	41	60
Pencil-sharpener.....	J. A. Hard.....	366,661	July 19	1254	335	40	255
Pencil-sharpener.....	G. R. Lewis and H. L. Bowman.....	360,313	Mar. 29	2862	728	38	1467
Pencil-sharpener.....	A. C. McKinnon.....	359,026	Mar. 8	894	228	38	1074
Pencil-sharpener.....	J. Seymour.....	375,009	Dec. 20	1227	320	41	1301
Pencil-sharpener.....	W. N. Wheless.....	369,270	Aug. 30	2751	734	40	1013
Pencil sharpener and point protector.....	T. O. L. Schrader.....	362,669	May 10	857	234	39	640
Pencil sharpener. Slate.....	I. P. Maxwell.....	370,272	Sept. 20	1379	370	40	1309
Pencils and other articles. Rubber-tip attachment for.....	C. W. Boman.....	368,509	Aug. 16	1702	453	40	791
Pencils and the like. Rubber-tip attachment for lead.....	C. M. Boman.....	363,583	May 24	2148	557	39	903
Pencils. Compass attachment for.....	C. W. Boman.....	375,257	Dec. 20	1567	411	41	1367
Pencils, &c. Holder for.....	G. Cornwall.....	368,517	Aug. 16	1709	456	40	793
Pencils or other articles. Rubber-tip attachment for.....	G. B. Adams.....	368,440	Aug. 16	1596	426	40	772
Pencils, &c. Reversible tip for lead.....	C. W. Boman.....	364,473	June 7	380	103	39	1160
Pencils. Rubber-tip attachment for lead.....	E. C. Blakeslee.....	357,949	Feb. 15	1747	456	38	765
Pencils, &c. Sharpener for.....	O. Mussinan, Jr.....	369,652	Sept. 6	471	132	40	1124
Pendulum-gate.....	M. A. Shepard.....	367,453	Aug. 2	132	38	40	476
Pendulum or vibrating-piston engine.....	J. W. Walters.....	367,872	Aug. 9	776	{ 209 210 }	{ 40 40 }	608
Pendulum-power.....	D. Gerstein.....	369,176	Aug. 30	2634	699	40	990
Pendulum-power. Inclined-plane.....	A. J. Ritter.....	370,820	Oct. 4	93	25	41	20
Pendulums. Electric controlling and regulating device for.....	W. S. Scales.....	366,513	July 12	1033	281	40	205
Peptone. Obtaining.....	E. Merck.....	369,729	Sept. 13	573	—	40	1153
Percolator.....	W. Suits.....	373,420	Nov. 15	1730	457	41	807
Percolator. Double-pressure.....	E. S. Anderson.....	356,087	Jan. 18	1141	303	38	235
Perforating-machine.....	G. A. Holm.....	366,104	July 5	477	129	40	90
Perforating-machine.....	E. B. Stimpson, Jr.....	370,100	Sept. 20	1141	{ 302 303 }	{ 40 40 }	1264
Perforating-machine.....	E. B. Stimpson, Jr.....	370,985	Oct. 4	374	93, 94	41	74
Perforating-machine.....	E. B. Stimpson, Jr.....	370,986	Oct. 4	378	95, 96	41	75
Perforating machine. Pin-hole.....	H. C. Hansen.....	364,248	June 7	66	19	39	1101
Perforating-machines. Cutter for.....	A. G. Burton.....	371,736	Oct. 18	1423	368	41	298
Perforating seat-frames. Machine for.....	J. M. Nash.....	363,164	May 17	1557	410	39	779
Perforator.....	F. P. Rosback.....	374,880	Dec. 13	1014	265	41	1253
Perfume. Coin-operated mechanism for delivering a spray of.....	E. G. Colton.....	374,347	Dec. 6	253	67, 68	41	1094
Perfume-receptacle.....	J. W. Palmer.....	360,902	Apr. 12	721	190	39	141
Permutation-lock.....	J. Baum.....	364,467	June 7	371	102	39	1158
Permutation-lock.....	J. R. Bettis.....	359,838	Mar. 22	2096	530	38	1319
Permutation-lock.....	A. S. Boice.....	372,512	Nov. 1	330	91	41	533
Permutation-lock.....	E. O. Daniels.....	359,350	Mar. 15	1325	344	38	1161
Permutation-lock.....	H. C. Fulton and M. L. Eldridge.....	365,468	June 28	1847	480	39	1461
Permutation-lock.....	H. C. Griffin.....	356,068	Jan. 11	1103	292	38	222
Permutation-lock.....	M. L. Harris.....	370,056	Sept. 20	1076	284	40	1252
Permutation-lock.....	J. H. and T. D. Morris.....	368,414	Aug. 16	1556	415	40	765
Permutation-lock.....	J. H. and T. D. Morris.....	368,543	Aug. 16	1747	465	40	800
Permutation-lock.....	J. C. Smith.....	374,712	Dec. 13	777	204	41	1208
Permutation-lock.....	T. S. Spivey.....	371,284	Oct. 11	779	200	41	161
Permutation-lock.....	T. S. Spivey.....	372,498	Nov. 1	310	85	41	530
Permutation-lock.....	A. Stoner.....	370,568	Sept. 27	1823	{ 485 486 }	{ 40 40 }	1398
Pessary. Automatic stem.....	A. O. McCord.....	372,922	Nov. 8	965	262	41	657
Petroleum burner. Crude.....	F. E. Thomas, N. S. Douglas, A. B. Smith, and D. H. Twing.	364,062	May 31	2835	736	39	1040
Petroleum. Extracting paraffine or other bodies from.....	G. Aab and S. K. Campbell.....	369,902	Sept. 13	831	220	40	1201
Petroleum-motor.....	V. List and J. Kosakoff.....	371,849	Oct. 18	1590	411	41	331
Phosphates. Making acid potassium.....	C. V. Petraeus.....	374,201	Dec. 6	49	—	41	1056
Photograph-burnisher.....	W. H. Boles.....	356,399	Jan. 18	1576	{ 414 415 }	{ 38 38 }	316
Photograph-burnisher.....	W. G. C. Kimball.....	374,412	Dec. 6	342	89	41	1111
Photograph-burnishing machine.....	W. G. Entekin.....	355,923	Jan. 11	891	233	38	181
Photograph-burnishing machine.....	F. A. Simonds.....	371,223	Oct. 11	695	178	41	145
Photograph-camera shutter.....	W. H. Lewis.....	367,986	Aug. 9	947	256	40	640
Photograph-card.....	W. P. Clough.....	370,727	Sept. 27	2074	550	40	1445
Photograph-card. Biographical.....	G. W. Fountain.....	370,186	Sept. 20	1269	537	40	1288
Photograph-case.....	R. Wilhelm.....	372,052	Oct. 25	1899	490	41	397
Photographer's bag-case and plate-holder.....	R. Koppe and O. Moh.....	369,646	Sept. 6	464	{ 129 130 }	{ 40 40 }	1123
Photographer's chair.....	J. W. Cooper.....	360,855	Apr. 12	652	172	39	129

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Photographer's plate-holder.....	W. H. Fuller.....	373,231	Nov. 15	1451	382	41	755
Photographer's scenery.....	M. Armbruster.....	373,794	Nov. 22	2282	{ 611 612 }	{ 41	925
Photographic accessory.....	J. W. Tinsman.....	375,006	Dec. 20	1533	402	41	1361
Photographic apparatus.....	J. Baynes.....	365,897	July 5	195	50	40	38
Photographic apparatus.....	J. R. Freeman.....	365,435	June 28	1799	{ 468 469 }	{ 39	1452
Photographic apparatus.....	H. Kuhn.....	366,225	July 12	649	{ 176 177 }	{ 40	131
Photographic apparatus.....	A. P. Whittell.....	360,499	Apr. 5	149	37	39	29
Photographic apparatus. Aerial.....	M. J. Steffens.....	359,902	Mar. 22	2208	{ 555 556 }	{ 38	1339
Photographic background. Multiplex.....	G. W. Morgan.....	362,390	May 3	444	123	39	561
Photographic backgrounds. Supporting-frame for.....	L. W. Seavey.....	375,231	Dec. 20	1221	319	41	1300
Photographic burnishing-machine.....	W. G. Entrekin.....	355,922	Jan. 11	890	233	38	181
Photographic burnishing-machine.....	W. G. Entrekin.....	357,954	Feb. 15	1752	457	38	766
Photographic camera.....	W. I. Adams.....	357,752	Feb. 15	1486	389	38	716
Photographic camera.....	T. H. Blair.....	362,599	May 10	750	207	39	619
Photographic camera.....	D. A. A. Buck.....	357,114	Feb. 1	547	142	38	522
Photographic camera.....	W. Clark.....	361,672	Apr. 26	1843	{ 477 478 }	{ 39	369
Photographic camera.....	W. Clark.....	361,673	Apr. 26	1844	478	39	369
Photographic camera.....	M. Flammang.....	357,984	Feb. 15	1802	473	38	775
Photographic camera.....	R. D. Gray and H. E. Stammers.....	362,271	May 3	283	79	39	528
Photographic camera.....	J. J. Higgins.....	371,458	Oct. 11	1019	{ 265 266 }	{ 41	207
Photographic camera.....	O. Hyde.....	356,941	Feb. 1	273	75	38	471
Photographic camera.....	J. Krementz.....	362,978	May 17	1300	{ 344 345 }	{ 39	728
Photographic camera.....	W. H. Lewis.....	360,314	Mar. 29	2863	729	38	1467
Photographic camera.....	W. H. Lewis.....	372,856	Nov. 8	870	233	41	640
Photographic camera.....	H. P. Pedersen.....	371,352	Oct. 11	874	{ 224 225 }	{ 41	179
Photographic camera.....	H. C. Price.....	358,942	Mar. 8	781	196	38	1053
Photographic camera.....	H. C. Price.....	368,732	Aug. 23	2020	535	40	861
Photographic camera.....	A. C. Sargent.....	360,249	Mar. 29	2772	704	38	1450
Photographic camera.....	W. Schmid.....	369,818	Sept. 13	693	187	40	1174
Photographic camera.....	N. Schroder and E. S. Adams.....	364,864	June 14	952	251	39	1274
Photographic camera.....	S. Wing.....	361,387	Apr. 19	1434	{ 370 371 }	{ 39	282
Photographic camera and plate-holder. Combined.....	J. Loeber.....	363,833	May 31	2509	{ 651 652 }	{ 39	976
Photographic-camera finder.....	W. H. Fuller.....	369,515	Sept. 6	274	76	40	1086
Photographic-camera shutter.....	R. E. M. Bain.....	370,673	Sept. 27	1983	527	40	1429
Photographic-camera shutter.....	J. J. Higgins.....	364,413	June 7	288	80	39	1143
Photographic-camera shutter.....	W. H. Lewis.....	359,797	Mar. 22	2034	515	38	1308
Photographic-camera shutter.....	W. H. Lewis.....	372,857	Nov. 8	873	233	41	640
Photographic-camera shutter.....	W. E. Roberts.....	362,663	May 10	849	232	39	638
Photographic-camera shutter.....	W. E. Schneider.....	363,547	May 24	2096	{ 543 544 }	{ 39	892
Photographic-camera shutter and diaphragm. Combined.....	A. W. Simon.....	369,997	Sept. 13	979	258	40	1227
Photographic-camera shutter. Self-timing.....	C. P. Call.....	368,930	Aug. 30	2300	611	40	924
Photographic-camera slide.....	A. P. Sharp.....	358,893	Mar. 8	715	176	38	1040
Photographic cameras. Adjustable plate-holder for.....	E. B. Barker.....	356,567	Jan. 25	1821	476	38	370
Photographic cameras. Attachment for.....	P. L. Senat.....	367,013	July 19	1714	462	40	340
Photographic cameras. Finder for.....	J. J. Higgins.....	366,584	July 12	1140	305	40	227
Photographic cameras. Plate-holder for.....	S. Wing.....	361,388	Apr. 19	1436	371	39	283
Photographic cameras. Stop shutter or diaphragm light-controller for.....	G. C. Stanley.....	363,429	May 24	1916	503	39	857
Photographic cameras. Tripod-tops for.....	T. H. Blair.....	364,629	June 14	597	160	39	1208
Photographic developing-cabinet.....	C. R. Quigley.....	362,782	May 10	1029	{ 279 280 }	{ 39	671
Photographic developing-tray.....	S. W. Burnham.....	363,505	May 24	2035	530	39	881
Photographic films. Apparatus for manufacturing sensitive.....	G. Eastman and W. H. Walker.....	358,848	Mar. 8	640	{ 158 159 }	{ 38	1027
Photographic frames. Vignette attachment for.....	L. F. Adt.....	357,886	Feb. 15	1667	434	38	750
Photographic instrument.....	J. R. Coñnon.....	369,165	Aug. 30	2618	695	40	987
Photographic negative-plate.....	C. H. Tonndorff.....	375,230	Dec. 20	1533	.....	41	1361
Photographic paper. Apparatus for coating.....	G. Eastman.....	370,050	Sept. 20	1067	282	40	1250
Photographic paper. Coating.....	W. H. Walker and G. Eastman.....	370,110	Sept. 20	1156	306	40	1266
Photographic paper. Coating.....	W. H. Walker and G. Eastman.....	370,111	Sept. 20	1158	306	40	1266
Photographic-paper-roll holder.....	E. B. Barker.....	367,176	July 26	1946	525	40	391
Photographic-plate holder.....	E. J. Leland.....	356,072	Jan. 11	1111	294	38	223
Photographic-plate holder.....	P. E. Rudell.....	371,855	Oct. 18	1602	414	41	334
Photographic-plate holder.....	M. P. Warner.....	367,480	Aug. 2	169	48	40	484
Photographic plates. Apparatus for coating.....	M. P. Ismay and E. Dodds.....	357,483	Feb. 8	1063	281	38	629
Photographic-print washer.....	J. T. Long.....	361,070	Apr. 12	971	246	39	185
Photographic-printing frame.....	L. F. Adt.....	366,060	July 5	425	116	40	81
Photographic-printing frame.....	G. H. Chesebro.....	363,209	May 17	1617	424	39	791
Photographic reproduction.....	A. Müller-Jacobs.....	358,817	Mar. 1	583	.....	38	1012
Photographic sheets. Apparatus for making multiple.....	O. L. Hulbert.....	373,404	Nov. 15	1707	452	41	802
Photographic shutter.....	C. D. Durnford.....	375,671	Dec. 27	2142	557	41	1484
Photographic shutter.....	G. F. Green.....	362,211	May 3	211	62	39	514
Photographic shutter.....	W. L. Imlay.....	361,947	Apr. 26	2233	{ 581 582 }	{ 39	439
Photographic-stamp-portrait sheet.....	H. Kuhn.....	366,224	July 12	648	176	40	130
Photographic time-shutter.....	E. Kuhn.....	362,518	May 10	631	{ 178 179 }	{ 39	600
Photographic web-holder.....	I. H. Stoddard.....	370,216	Sept. 20	1306	348	40	1295
Photographs. Rubbing-down device for mounting.....	L. F. Adt.....	364,882	June 14	979	257	39	1278
Photography.....	A. Müller-Jacobs.....	358,816	Mar. 1	582	.....	38	1012
Photography. Apparatus for aerial.....	J. Fairman.....	367,610	Aug. 2	368	104	40	522

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Piano	J. R. Perry	356,050	Jan. 11	1075	283	38	217
Piano	L. Römhildt	361,240	Apr. 12	1233	314	39	234
Piano	G. Steck	365,412	June 28	1764	458	39	1446
Piano	G. Steck	367,073	July 26	1806	487	40	366
Piano-action	A. Battes	374,389	Dec. 6	308	82	41	1105
Piano-action	V. H. Brown	371,666	Oct. 18	1310	340	41	274
Piano-action	T. Cahill	359,551	Mar. 15	1651	422	38	1222
Piano-action	D. E. Dopp	364,399	June 7	261	74	39	1138
Piano-action	A. Kampe	367,210	July 26	1992	539	40	401
Piano-action	O. Wessell, A. Nickel, and R. Gross	366,360	July 12	832	223	40	164
Piano-action frame	E. Stroud	363,488	May 24	2009	524	39	876
Piano action. Upright	S. Brambach	363,947	May 31	2671	693	39	1005
Piano action. Upright	A. C. Ellis	356,109	Jan. 18	1178	312	38	241
Piano-case	G. Harper and F. Hoover	372,616	Nov. 1	486	132	41	561
Piano case. Upright	W. A. Lorenz	365,695	June 28	2189	572	39	1527
Piano-damper	J. R. Perry	364,601	June 7	558	150	39	1193
Piano. Electrical	G. F. Dieckmann	368,195	Aug. 16	1242	{ 331 332 }	{ 40 40 }	703
Piano-forte	W. H. Ivers	371,069	Oct. 4	480	121	41	95
Piano-forte	W. H. Ivers	375,491	Dec. 27	1878	491	41	1436
Piano-forte	H. Sohmer	358,946	Mar. 8	784	198	38	1054
Piano-forte action	S. Harcourt	371,578	Oct. 18	1192	310	41	250
Piano-forte action	H. C. Lutz	366,781	July 19	1421	380	40	285
Piano-forte action. Upright	E. Q. Norton	375,327	Dec. 20	1661	436	41	1386
Piano-forte hammer	A. Dolge	364,496	June 7	412	112	39	1166
Piano-forte hammers. Press for forming	A. Dolge	361,144	Apr. 12	1085	275	39	206
Piano-fortes. Combined capodastro bar and bridge for	J. Keller	368,673	Aug. 23	1925	511	40	844
Piano-fortes. Key-board for	W. H. Ivers	363,240	May 17	1652	434	39	798
Piano-fortes. Key-frame for	P. Gmehlin	356,759	Feb. 1	25	8	38	428
Piano-fortes. Pin-block for	W. H. Ivers	371,070	Oct. 4	481	121	41	95
Piano-frame	C. H. Mahling	372,035	Oct. 25	1875	484	41	392
Piano-keys. Guide-pin for	W. Becker	366,615	July 12	1187	318	40	234
Piano. Method of and apparatus for learning to play on the	V. von Wedelstaedt	370,750	Sept. 27	2102	557	40	1451
Piano-pedal stool	J. Martin	371,774	Oct. 18	1476	{ 381 382 }	{ 41 41 }	308
Piano sound-board	T. Newhouse	361,967	Apr. 26	2277	592	39	445
Piano tuning-pin	P. T. B. Berner	360,409	Apr. 5	10	3	39	4
Piano tuning-pin	F. E. H. Goodenow	375,150	Dec. 20	1433	375	41	1340
Piano tuning-pin	H. C. Lutz	366,782	July 19	1422	381	40	285
Piano-tuning pin	F. Rähse	356,159	Jan. 18	1247	329	38	254
Piano. Upright	J. E. Richardson and J. A. Warren	357,291	Feb. 8	800	208	38	579
Piano wrest-plank	T. M. Antisell	373,262	Nov. 15	1485	392	41	762
Piano. Xylo-metalliphone	M. Braun	367,955	Aug. 9	906	245	40	631
Pianos. Action-rail for upright	J. Herrburger	355,394	Jan. 4	134	36	38	28
Pianos and organs. Key-board attachment for	J. H. Rheem	360,051	Mar. 29	2457	626	38	1392
Pianos. Balance-rail pin for	W. A. Church	373,924	Nov. 29	2469	663	41	969
Pianos. Damper for upright	J. Herrburger	367,521	Aug. 2	245	70	40	498
Pianos. Foot-rest for	J. M. Taylor	359,695	Mar. 22	1876	476	38	1280
Pianos. Key-board attachment for	T. A. Wright and S. Marsden	356,236	Jan. 18	1347	355	38	273
Pianos. Music-desk for upright	W. Rohlfing, Jr.	363,767	May 24	2413	626	39	953
Pianos. Music-rack for upright	A. C. James	362,512	May 10	624	176	39	599
Pianos. Pedal attachment for	N. E. and W. G. Wilson	366,285	July 12	732	199	40	146
Pianos. Pedal reed-organ attachment for	A. Allmuth	356,815	Feb. 1	99	28	38	441
Pianos. Pianissimo device for	J. W. Cooper	367,272	July 26	2094	{ 565 566 }	{ 40 40 }	420
Pianos. Pianissimo-pedal for	P. Weber	357,436	Feb. 8	993	261	38	615
Pianos. Stringing	A. J. Gillespie	365,593	June 28	2047	534	39	1501
Pianos. Stringing	H. B. Nickerson	359,808	Mar. 22	2053	520	38	1311
Pianos. Stringing	C. S. Weber	361,384	Apr. 19	1430	370	39	282
Pick	S. T. Elgin	366,576	July 12	1127	302	40	225
Pick	A. T. Moats	356,412	Jan. 18	1593	419	38	319
Pick and shovel. Combined	A. H. Storey	365,208	June 21	1453	383	39	1376
Pick. Millstone	A. Hornig	366,959	July 19	1651	443	40	329
Pickax or mattock	J. W. Crandall	369,921	Sept. 13	859	227	40	1206
Picker: See Cotton-picker. Fruit-picker.							
Picket guide and support	J. C. Haag	356,637	Jan. 25	1925	504	38	390
Picket-pin	M. B. Runyon	362,183	May 3	173	51	39	507
Picking-table for nuts, &c.	B. H. Vellines	364,977	June 14	1117	291	39	1303
Picture and frame. Relief	J. W. Ecker	367,899	Aug. 9	822	221	40	616
Picture and mirror frames. Hanging device for	W. Witthoof, Jr.	366,989	July 19	1688	454	40	335
Picture and print. Transformation	A. Reid and J. Jameson	356,695	Jan. 25	1993	524	38	403
Picture cord and hook hanger	G. B. Fowler	357,312	Feb. 8	829	216	38	584
Picture-cord fastener	A. G. Hofstatter	358,268	Feb. 22	2205	581	38	854
Picture-exhibitor	A. M. Boos	357,757	Feb. 15	1495	391	38	718
Picture-exhibitor	M. Jewett	359,725	Mar. 22	1917	{ 486 487 }	{ 38 38 }	1287
Picture-films to celluloid sheets. Producing and transferring	W. A. McGill	368,223	Aug. 16	1300	.....	40	713
Picture-frame	F. Damlos	366,715	July 19	1333	357	40	269
Picture-frame	M. Hogan	366,835	July 19	1490	398	40	297
Picture-frame	F. F. Peters	356,328	Jan. 18	1478	389	38	297
Picture-frame	W. Schumacher	368,245	Aug. 16	1326	349	40	718
Picture-frame	C. Taber	374,641	Dec. 13	682	179	41	1188
Picture-frame backs. Fastening for	F. W. Watkins	374,641	Dec. 13	685	180	41	1189
Picture-frame hanger	J. A. Stahle	371,716	Oct. 18	1395	360	41	292
Picture-frame hanger. Adjustable	E. Wilkinson	360,982	Apr. 12	842	216	39	161
Picture-frames. Adjustable device for hanging	H. Stuebner	368,251	Aug. 16	1337	352	40	720
Picture-frames. Cord attachment for	W. P. Lombard	368,292	Aug. 16	1394	368	40	732
Picture-frames. Hanging device for	A. Campbell	370,765	Oct. 4	19	5	41	6
Picture-frames. Ornamental strip for	E. Brodhag	367,592	Aug. 2	344	98	40	517
Picture-hanger	P. J. Egan	365,676	June 28	2163	564	39	1522

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Picture-hanger.....	R. Pratt.....	358,069	Feb. 22	1728	508	38	804
Picture-hanging device.....	C. M. Barnes and W. S. Hill.....	365,426	June 28	1784	464	39	1449
Picture-holder.....	R. Choinanus.....	368,994	Aug. 30	2388	634	40	941
Picture-holder.....	E. Pachtmann.....	375,189	Dec. 20	1482	388	41	1351
Picture holder and exhibitor.....	M. Rubin.....	366,510	July 12	1027	280	40	204
Picture-holder. Artists' maul.....	A. E. Lipp.....	363,525	May 24	2062	535	39	886
Picture hook or hanger.....	W. M. Brinkerhoff.....	366,812	July 19	1459	390	40	292
Picture hook or hanger.....	W. M. Brinkerhoff. (Reissue).....	10,862	Aug. 30	2813	{ 750 751 }	{ 40 41 }	1026
Picture hook or hanger.....	W. M. Brinkerhoff.....	371,665	Oct. 18	1308	{ 339 340 }	{ 41 42 }	274
Picture-support.....	C. Hinsberg.....	371,319	Oct. 11	829	212	41	170
Picture-title holder.....	S. G. Detwiler.....	369,926	Sept. 13	874	231	40	1208
Pictures and analogous articles. Mounting.....	C. Tollner, Jr.....	371,004	Oct. 4	402	100	41	80
Pictures. Back for.....	C. F. Mutter.....	358,058	Feb. 22	1910	504	38	800
Pictures. Making electric gold.....	A. W. and E. M. Tucker.....	372,720	Nov. 8	640	-----	41	602
Pie-holder.....	M. Jory.....	369,112	Aug. 30	2557	680	40	973
Pie-plate attachment.....	G. K. Knowlton.....	372,318	Nov. 1	50	15	41	481
Pie-turner.....	G. H. Thomas.....	370,503	Sept. 27	1731	459	40	1382
Pigeon-hole block for keeping checks and vouchers.....	M. L. Sage.....	363,852	May 31	2537	659	39	982
Pigeon-hole case.....	A. D. Hobbie.....	357,004	Feb. 1	367	97	38	490
Pigeon-hole case.....	D. C. Meehan.....	357,403	Feb. 8	948	250	38	607
Pigeon-hole case. Metallic.....	J. F. Lash.....	360,597	Apr. 5	300	73	39	57
Pigment.....	C. Fries.....	358,926	Mar. 8	761	-----	38	1049
Pigment. White.....	J. B. Freeman.....	375,060	Dec. 20	1297	-----	41	1313
Pigments from galena, &c. Manufacturing.....	F. P. Dewey.....	372,898	Nov. 8	932	251	41	651
Pile.....	S. G. Hutchinson.....	365,816	July 5	78	23	40	17
Pile.....	S. G. Hutchinson.....	371,943	Oct. 25	1732	448	41	367
Pile-covering.....	H. Anderson.....	366,444	July 12	930	254	40	185
Pile for the manufacture of iron sheets.....	R. A. Carter.....	366,152	July 5	544	147	40	103
Pile or pier.....	C. Delafield.....	374,944	Dec. 20	1135	297	41	1284
Pile protector.....	R. W. Gorrill.....	372,141	Oct. 25	2039	522	41	421
Piles. Instrument for treating.....	S. B. Payne.....	362,778	May 10	1024	278	39	670
Piling. Sheet.....	J. A. Wakefield.....	370,108	Sept. 20	1154	305	40	1266
Pill-box.....	T. C. Waite.....	367,941	Aug. 9	885	240	40	628
Pill-making machine.....	M. E. Chartier.....	362,357	May 3	395	{ 109 110 }	{ 39 40 }	551
Pillar-step.....	C. E. Miller.....	355,701	Jan. 11	555	146	38	119
Pillow.....	A. Poitevent.....	372,763	Nov. 8	705	195	41	613
Pillow.....	A. G. Roenigk.....	368,114	Aug. 9	1120	298	40	672
Pillow. Couch.....	J. Flinn.....	370,772	Oct. 4	31	8	41	9
Pillow-holder.....	C. N. Leonard.....	359,617	Mar. 22	1770	{ 449 450 }	{ 38 39 }	1250
Pillow. Sham.....	L. Vierheller.....	368,864	Aug. 23	2195	583	40	895
Pillow-sham holder.....	W. H. Easton.....	365,375	June 28	1718	445	39	1437
Pillow-sham holder.....	J. F. and J. C. Kurtis.....	358,459	Mar. 1	52	14	38	913
Pillow-sham holder.....	S. F. Marchant.....	370,202	Sept. 20	1289	343	40	1292
Pillow-sham holder.....	S. A. Scofield.....	357,043	Feb. 1	423	113	38	500
Pillow-sham holder.....	G. S. Tompkins.....	364,319	June 7	153	43	39	1118
Pillow-sham holder.....	E. W. Trenholm.....	364,385	June 7	243	69	39	1135
Pillow-sham holder.....	T. Van Duzer.....	365,158	June 21	1392	367	39	1363
Pillow-sham holder.....	H. C. Warren.....	360,633	Apr. 5	343	86	39	66
Pillow-sham holder. Adjustable.....	W. W. Jones.....	369,009	Aug. 30	2407	{ 638 639 }	{ 40 41 }	945
Pillow-sham holder. Combination of an adjustable.....	R. X. McArthur.....	366,641	July 12	1224	326	40	241
Pin:							
See Bonnet-pin. Jewelry-pin.							
Brooch-pin. Lambrequin-pin.							
Clothes-pin. Piano-tuning pin.							
Dowel-pin. Picket-pin.							
Engine wrist-pin. Rafting-boom pin.							
Feather-tip pin. Safety-pin.							
Hair-pin. Scarf-pin.							
Husking-pin. Separable pin.							
Pin and needle case.....	M. M. Smith.....	371,104	Oct. 4	531	135	41	105
Pin-case. Mechanical.....	C. M. Adams.....	366,059	July 5	424	115	40	80
Pin-connection. Expansible.....	A. Gautier.....	364,584	June 7	536	144	39	1189
Pin setter. Ruby.....	C. Hofer.....	367,101	July 26	1851	499	40	374
Pinch-bar.....	C. E. Letts.....	359,793	Mar. 22	2030	514	38	1307
Pinch-bar.....	J. S. Yinger.....	369,150	Aug. 30	2598	690	40	983
Pinchers.....	C. Morrill.....	356,492	Jan. 25	1715	448	38	350
Pinchers. Lasting.....	F. W. Whitecher.....	372,246	Oct. 25	2189	562	41	451
Pinion-leaves. Machine for polishing.....	J. N. Lapointe.....	371,847	Oct. 18	1585	{ 409 410 }	{ 41 42 }	330
Pipe:							
See Composition pipe Smoking-pipe.							
Conductor-pipe. Stand-pipe.							
Dip-pipe. Stove-pipe.							
Drain-pipe. Tobacco-pipe.							
Hydraulic pipe. Wooden pipe.							
Pipe.....	W. D. Wood.....	358,370	Feb. 22	2343	622	38	881
Pipe and flue connection.....	V. Bonzagni.....	365,783	July 5	16	5	40	6
Pipe. Apparatus for making curved metal.....	J. A. Whitney.....	368,314	Aug. 16	1419	375	40	737
Pipe-bending machine.....	G. B. Brownson.....	361,487	Apr. 19	1563	406	39	307
Pipe-bending machine.....	S. Phillips.....	370,652	Sept. 27	1951	{ 516 517 }	{ 40 41 }	1423
Pipe-connection.....	W. E. Jones and H. Winniatt.....	379,394	Mar. 15	1401	359	38	1176
Pipe-coupling.....	S. H. Barrett.....	374,169	Dec. 6	15	3	41	1049
Pipe-coupling.....	G. H. Benjamin.....	368,906	Aug. 23	2255	600	40	907
Pipe-coupling.....	J. Bersch.....	375,253	Dec. 20	1563	409	41	1366
Pipe-coupling.....	W. G. Davis.....	359,500	Mar. 15	1557	398	38	1205
Pipe-coupling.....	L. Etienne.....	372,790	Nov. 8	762	205	41	621
Pipe-coupling.....	G. Gibbs.....	375,547	Dec. 27	1960	510	41	1451
Pipe-coupling.....	H. S. McKee.....	372,479	Nov. 1	286	79	41	525

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Pipe-coupling.....	J. S. Klein.....	365,387	June 28	1736	449	39	1440
Pipe-coupling.....	J. S. Klein.....	365,388	June 28	1737	449	39	1440
Pipe-coupling.....	R. H. Lapage.....	360,229	Mar. 29	2745	695	38	1444
Pipe-coupling.....	J. O'Leary.....	364,666	June 14	641	172	39	1216
Pipe-coupling.....	W. Piel.....	357,624	Feb. 15	1283	337	38	679
Pipe-coupling.....	C. Turner.....	373,109	Nov. 15	1245	331	41	719
Pipe-coupling.....	A. Wilbur.....	369,574	Sept. 6	359	100	40	1103
Pipe-coupling.....	A. Wilbur. (Reissue).....	10,877	Oct. 25	2243	575	41	462
Pipe coupling. Lead.....	J. Heber.....	364,250	June 7	69	20	39	1102
Pipe coupling. Steam.....	J. R. Drodzewski.....	363,374	May 24	1833	482	39	842
Pipe-coupling. Vacuum-brake.....	R. Solano.....	360,924	Apr. 12	749	197	39	146
Pipe-couplings. Manufacture of.....	J. T. Hambay.....	361,509	Apr. 19	1590	412	39	313
Pipe-cutter.....	C. A. Barnes.....	365,564	June 28	2002	522	39	1493
Pipe-cutter.....	C. C. Walworth.....	365,887	July 5	181	46	40	36
Pipe. Device for bending.....	E. O. Daniels.....	361,398	Apr. 19	1446	374	39	284
Pipe. Device for bending.....	E. O. Daniels.....	369,166	Aug. 30	2619	695	40	987
Pipe-fittings. Blank for.....	J. T. Hambay.....	362,003	Apr. 26	2326	607	39	454
Pipe-fittings. Making.....	J. T. Hambay.....	361,507	Apr. 19	1587	412	39	312
Pipe-hanger.....	R. T. Crane.....	368,755	Aug. 23	2046	541	40	866
Pipe-joint.....	W. C. Barclay.....	365,425	June 28	1783	464	39	1449
Pipe-joint.....	R. M. Reilly.....	367,929	Aug. 9	862	235	40	624
Pipe-joint.....	J. J. Thomas.....	364,686	June 14	668	178	39	1222
Pipe-joints. Pattern for.....	R. A. Robertson, Jr.....	365,943	July 5	268	70	40	52
Pipe-laying apparatus.....	A. Wilbur.....	375,404	Dec. 27	1762	462	41	1413
Pipe-lifter.....	R. G. Marcy.....	361,706	Apr. 26	1888	489	39	376
Pipe. Manufacture of square metal.....	W. B. Sandford.....	368,622	Aug. 23	1853	495	40	830
Pipe. Means for making curved.....	J. A. Whitney.....	365,110	June 21	1322	{ 350 } { 351 }	{ 39 } { 39 }	{ 1350 } { 1350 }
Pipe-mold.....	W. A. Frick.....	365,176	June 21	1416	373	39	1367
Pipe-mold.....	W. Smith.....	360,251	Mar. 29	2775	704	38	1451
Pipe-molding apparatus.....	J. C. McDermott.....	357,492	Feb. 8	1074	{ 283 } { 284 }	{ 38 } { 38 }	{ 631 } { 631 }
Pipe-molding apparatus.....	A. H. McNeal and W. A. Stineruck.....	359,269	Mar. 15	1210	316	38	1141
Pipe-thread protector.....	W. H. and H. W. Pickett.....	372,328	Nov. 1	64	20	41	483
Pipe-welding machine.....	C. P. Higgins.....	356,468	Jan. 25	1675	438	38	343
Pipe-wrench.....	I. Anderson.....	359,197	Mar. 8	1110	289	38	1115
Pipe-wrench.....	S. J. Benson.....	361,258	Apr. 19	1257	321	39	250
Pipe-wrench.....	E. O. Carvin.....	367,786	Aug. 9	666	180	40	585
Pipe-wrench.....	C. D. Cheltz.....	365,729	June 28	2245	584	39	1537
Pipe-wrench.....	J. Clark.....	356,986	Feb. 1	340	90	38	485
Pipe-wrench.....	J. Clark.....	367,596	Aug. 2	348	99	40	518
Pipe-wrench.....	J. Courtleyow.....	362,819	May 10	1068	290	39	679
Pipe-wrench.....	J. C. Degnan and C. A. Bennett.....	361,579	Apr. 19	1692	437	39	331
Pipe-wrench.....	W. Gormley.....	369,336	Sept. 6	40	12	40	1042
Pipe-wrench.....	J. H. Guiley.....	370,752	Sept. 27	2104	558	40	1451
Pipe-wrench.....	E. Judson.....	371,143	Oct. 4	583	149	41	115
Pipe-wrench.....	C. T. Phillips.....	365,019	June 14	1173	308	39	1313
Pipe-wrench.....	J. Sample.....	364,961	June 14	1094	284	39	1299
Pipe-wrench.....	F. C. Sawhill.....	364,549	June 7	494	133	39	1181
Pipe wrench and cutter.....	W. E. Clayton.....	364,090	May 31	2871	744	39	1046
Pipes and tubes. Casing for.....	M. R. Colvin.....	369,773	Sept. 13	629	170	40	1162
Pipes, &c. Apparatus for carbonizing cement.....	J. H. Walsh.....	375,236	Dec. 20	1539	404	41	1362
Pipes, artificial stone, &c. Composition for.....	S. H. Gilson.....	361,759	Apr. 26	1960	511	39	388
Pipes. Coupling for joining.....	E. E. Hendrick.....	365,068	June 21	1260	332	39	1339
Pipes. Covering for steam.....	O. Ober.....	360,782	Apr. 5	545	141	39	102
Pipes. Covering for steam.....	H. F. Watson.....	363,028	May 17	1372	363	39	743
Pipes. Forming screw-couplings for.....	J. T. Hambay.....	361,508	Apr. 19	1589	412	39	312
Pipes in dwellings and other structures. Cleansing, disinfecting, and testing drain.....	W. D. Schuyler.....	374,008	Nov. 29	2586	695	41	992
Pipes. Machine for making soft-metal.....	J. C. Appleby.....	374,165	Dec. 6	7	2	41	1048
Pipes. Machine for threading sheet-metal.....	F. F. Voigt.....	369,417	Sept. 6	146	42	40	1060
Pipes. Means for making.....	J. C. Appleby.....	374,167	Dec. 6	10	3	41	1048
Pipes. Method of and apparatus for laying submarine.....	H. C. Thacher and G. H. Breymann.....	375,464	Dec. 27	1843	{ 482 } { 483 }	{ 41 } { 41 }	{ 1429 } { 1429 }
Pipes. Non-conducting covering for.....	F. M. Thomson.....	366,354	July 12	826	222	40	163
Pipes or rods. Machine for cutting.....	A. Saunders.....	368,012	Aug. 9	988	{ 265 } { 266 }	{ 40 } { 40 }	{ 647 } { 647 }
Pipes. Reducing the ends of.....	E. O. Daniels.....	375,050	Dec. 20	1284	335	41	1311
Pipes. Safety attachment for steam or other.....	W. T. Johnston.....	370,339	Sept. 20	1472	395	40	1327
Pipes. Service-box for water or gas.....	S. J. Ketcham.....	372,680	Nov. 8	586	159	41	591
Pipes. Support for steam.....	W. A. Lilliendahl.....	361,767	Apr. 26	1967	513	39	390
Pipes. Union for steam.....	E. P. Paynter, Jr.....	367,725	Aug. 2	568	155	40	558
Pistol or mace holder.....	J. P. Wintz.....	372,000	Oct. 25	1810	469	41	382
Piston.....	W. M. Barr.....	372,058	Oct. 25	1908	491	41	398
Piston engine. Double reciprocating square.....	W. F. Dake.....	363,368	May 24	1826	480	39	840
Piston engine. Roller.....	F. Gleason.....	356,036	Jan. 11	1055	{ 277 } { 278 }	{ 38 } { 38 }	{ 213 } { 213 }
Piston. Horizontal.....	H. See.....	365,102	June 21	1309	347	39	1348
Piston meter.....	A. Bonna.....	366,370	July 12	847	228	40	167
Piston meter.....	M. P. Freeman.....	374,530	Dec. 6	518	136	41	1146
Piston meter.....	F. W. Hood.....	367,522	Aug. 2	246	70	40	498
Piston meter.....	W. A. Sylvester.....	372,342	Nov. 1	87	25	41	488
Piston meter.....	W. A. Sylvester.....	373,500	Nov. 22	1858	494	41	843
Pitcher. Beer.....	F. E. De Jean.....	366,207	July 12	622	170	40	126
Pitcher for sirup, milk, &c.....	J. A. Frey.....	357,122	Feb. 1	559	145	38	524
Pitchers or other vessels. Guard for water.....	S. Whinery.....	369,381	Sept. 6	102	31	40	1052
Pitman.....	E. W. Cady.....	374,449	Dec. 6	401	104	41	1122
Pitman.....	W. W. Cumnock.....	368,519	Aug. 16	1711	456	40	794
Pitman.....	F. L. Emerson.....	369,846	Sept. 13	741	198	40	1183
Pitman.....	R. S. Mitchell.....	358,364	Feb. 22	2335	620	38	880
Pitman.....	G. L. K. Morrow.....	357,130	Feb. 1	578	148	38	527
Pitman.....	J. Mossman.....	362,032	Apr. 26	2366	617	39	461
Pitman.....	B. P. White.....	367,942	Aug. 9	885	240	40	628
Pitman-box.....	T. W. Broomell.....	355,435	Jan. 4	183	49	38	37

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Pitman or pump-rod	J. F. Loomis	364,423	June 7.	301	83	39	1145
Pitman or pump-rod	J. F. Loomis	371,895	Oct. 18	1666	430	41	345
Plaiting and machinery therefor. Method of	N. Fraser	369,514	Sept. 6	271	75, 76	40	1085
Plaiting-board	J. P. Caldwell	355,503	Jan. 4	270	71	38	54
Plaiting-machine	G. C. Parker	359,810	Mar. 22	2056	521	38	1312
Plaiting-machine	J. Stiely	362,551	May 10	677	190	39	608
Plaiting-machine	J. F. Young	370,843	Oct. 4	138	37, 38	41	28
Plaiting machine. Cloth-	A. Borchardt	361,125	Apr. 12	1052	{ 266 } 267	39	200
Plane. Bench-	J. Brice	357,454	Feb. 8	1020	270	38	620
Plane. Bench-	E. A. Teed	371,482	Oct. 11	1049	273	41	213
Plane. Hand or jack	L. A. Dearth	363,213	May 17	1620	425	39	792
Planes. Gage for wood-working	E. B. Shepardson	367,071	July 26	1802	486	40	365
Planer	S. J. and G. J. Shimer	367,674	Aug. 2	479	{ 132 } 133	40	542
Planer feeds. Gearing for wood-	W. H. Gray	360,150	Mar. 29	2628	665	38	1422
Planer. Meadow-	J. Pfleger	367,058	July 26	1781	481	40	361
Planer. Stave-	J. J. Philbrick	360,616	Apr. 5	326	80	39	62
Planers. Slotting attachment for metal-	J. N. Kaufholz	360,530	Apr. 5	202	49	39	39
Planers. Stave-jointing attachment for bed-	J. Greig	375,153	Dec. 20	1436	376	41	1340
Planetarium	U. G. Houston	367,104	July 26	1854	{ 500 } 501	40	375
Planimeter	C. E. Emery	360,867	Apr. 12	672	176	39	132
Planing and matching machine	J. B. Mahaffey	362,896	May 10	1178	315	39	699
Planing and matching machines. Guide for	W. M. Dwight	363,322	May 17	1765	463	39	819
Planing curved surfaces. Device for	C. F. Geyer	373,586	Nov. 22	1989	528	41	866
Planing-machine	E. A. Blake	361,669	Apr. 26	1839	476	39	368
Planing-machine	A. McHenry	374,313	Dec. 6	207	55	41	1085
Planing-machine	S. K. White	370,912	Oct. 4	258	65	41	51
Planing-machine	B. D. Whitney	371,399	Oct. 11	941	242	41	191
Planing-machine	S. A. Woods	364,329	June 7	164	46	39	1120
Planing-machine	S. A. Woods	364,743	June 14	751	{ 199 } 200 201	39	1238
Planing-machine	S. A. Woods and J. R. Thomas	374,283	Dec. 6	149	{ 39 } 40 41	41	1076
Planing-machine. Duplex	W. H. Doane	365,507	June 28	1909	{ 496 } 497	39	1474
Planing machine. Metal-	W. Sellers and J. S. Bancroft	374,908	Dec. 13	1057	{ 277 } 278	41	1262
Planing machine. Metal-	E. P. and H. C. Walter	364,980	June 14	1122	{ 292 } 293	39	1304
Planing machine. Wood-	W. H. Gray	358,972	Mar. 8	818	207	38	1060
Planing machine. Wood-	H. A. Lee	356,482	Jan. 25	1702	{ 444 } 445	38	348
Planing machine. Wood-	G. E. Lloyd	367,417	Aug. 2	83	23	40	467
Planing machine. Wood-	G. S. Myrick	373,411	Nov. 15	1717	454	41	804
Planing machines. Chip-breaker for wood-	W. H. Gray	362,619	May 10	780	214	39	625
Planing machines. Feed-roller expansion-gear for wood-	J. C. Wilcke	373,956	Nov. 29	2515	{ 676 } 677	41	977
Planing-machines. Guide for feeders for	A. Ramstad	364,542	June 7	487	131	39	1179
Planing or molding machines. Presser-bar for wood	W. H. Gray	361,506	Apr. 19	1586	411	39	312
Plant and tree protector	C. Schott	356,164	Jan. 18	1250	331	38	254
Plant-protector	W. R. Hallock	374,302	Dec. 6	186	49	41	1082
Plant support and protector	J. Rovane	374,906	Dec. 13	1055	276	41	1262
Plant-tray	J. B. Johnson	366,776	July 19	1416	378	40	284
Planter	S. Beal	359,005	Mar. 8	868	220	38	1069
Planter	P. W. A. Becker	370,036	Sept. 20	1051	278	40	1248
Planter	J. A. Childs	368,811	Aug. 23	2123	562	40	881
Planter	J. M. Davis	359,669	Mar. 22	1833	466	38	1272
Planter	J. H. Elward	373,226	Nov. 15	1440	{ 380 } 381	41	754
Planter	J. P. Hasty and G. L. Hise	355,525	Jan. 4	298	79	38	60
Planter	T. W. Hill	371,459	Oct. 11	1022	266	41	208
Planter	R. E. Hyde	375,421	Dec. 27	1785	467	41	1417
Planter	T. J. Lindsay	358,046	Feb. 22	1889	500	38	797
Planter	T. J. Lindsay	366,964	July 19	1657	445	40	330
Planter	M. F. Myers	360,815	Apr. 5	587	{ 153 } 154	39	111
Planter	D. M. Parry	374,316	Dec. 6	210	56	41	1085
Planter	J. W. Rhodes	355,715	Jan. 11	578	151	38	123
Planter and check-rower. Corn-	J. W. McMahan and E. S. Whittemore	372,480	Nov. 1	287	79	41	525
Planter and cultivator. Combined	A. L. Parker	355,948	Jan. 11	934	244	38	189
Planter and cultivator. Combined seed-	E. F. Dickey	367,507	Aug. 2	226	65	40	495
Planter and drill	R. Brock	374,653	Dec. 13	692	182	41	1190
Planter and fertilizer-distributer. Combined	C. T. Waters	366,904	July 19	1580	423	40	315
Planter and fertilizer-distributer. Combined	J. M. Woodward	355,630	Jan. 4	437	{ 120 } 121	38	86
Planter and fertilizer-distributer. Combined cotton-seed	J. I. Boswell	361,484	Apr. 19	1559	405	39	306
Planter and fertilizer-distributer. Potato-	T. W. Powell	373,945	Nov. 29	2500	671	41	974
Planter and marker. Corn-	S. Davis	357,470	Feb. 8	1045	{ 276 } 277	38	625
Planter and roller	W. H. Littell and J. R. Scofield	367,006	July 19	1706	459	40	339
Planter and row-checker. Three-row combination corn-	R. I. Skiles	357,047	Feb. 1	426	114	38	501
Planter attachment. Corn-	I. H. Athey	371,119	Oct. 4	549	{ 140 } 141	41	109
Planter attachment. Corn-	B. Kuhns	358,401	Feb. 22	2386	634	38	890
Planter. Check-row	J. Dunkin	371,879	Oct. 18	1641	{ 423 } 424	41	341
Planter. Check-row	A. F. Tiede and J. Wilcox	361,558	Apr. 19	1653	428	39	325

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Planter check-row attachment. Corn.....	P. F. Panabaker.....	362,309	May 3	331	91, 92	39	538
Planter. Check-row corn.....	C. A. Anderson.....	364,463	June 7	367	101	39	1158
Planter. Check-row corn.....	W. B. Chambers and J. Kaylor.....	361,613	Apr. 19	1741	{ 450 451	{ 39	340
Planter. Check-row corn.....	F. B. Tait and J. Gross.....	367,463	Aug. 2	143	41, 42	40	478
Planter. Check-row corn.....	I. N. Tusing.....	363,306	May 17	1742	456	39	815
Planter check-row lines. Device for laying and taking up corn.....	E. K. Hayes.....	358,354	Feb. 22	2324	616	38	877
Planter check-rower. Corn.....	A. Devine.....	367,964	Aug. 9	921	249	40	634
Planter check-rower. Corn.....	J. D. Smith.....	360,825	Apr. 5	604	159	39	114
Planter. Check-rower corn.....	C. E. Sweney.....	357,563	Feb. 8	1192	{ 313 314	{ 38	653
Planter check-rowing attachment. Corn.....	O. A. Shotts.....	363,555	May 24	2107	{ 546 547	{ 39	894
Planter, chopper, and cultivator. Cotton.....	L. Alsup.....	364,698	June 14	688	183	39	1226
Planter. Combined cotton and corn.....	G. W. Beverly.....	358,723	Mar. 1	450	{ 109 110	{ 38	987
Planter. Corn.....	G. C. Avery.....	358,638	Mar. 1	323	78	38	963
Planter. Corn.....	W. H. Babcock.....	361,254	Apr. 19	1253	319	39	249
Planter. Corn.....	J. D. Baer.....	370,595	Sept. 27	1869	496	40	1407
Planter. Corn.....	C. A. Beerstecher.....	365,229	June 21	1480	390	39	1381
Planter. Corn.....	E. Bowman.....	371,028	Oct. 4	427	107	41	85
Planter. Corn.....	M. T. Broady.....	367,781	Aug. 9	654	176	40	583
Planter. Corn.....	L. L. Brooks.....	361,924	Apr. 26	2201	571	39	433
Planter. Corn.....	S. S. Brooks.....	358,537	Mar. 1	185	43, 44	38	986
Planter. Corn.....	S. T. Carter and B. H. McCoy.....	368,455	Aug. 16	1624	{ 434 435	{ 40	777
Planter. Corn.....	S. M. Drake and C. Linder.....	374,242	Dec. 6	103	26	41	1066
Planter. Corn.....	W. Dunkle.....	369,507	Sept. 6	262	73	40	1084
Planter. Corn.....	A. C. Evans.....	361,214	Apr. 12	1196	{ 303 304	{ 39	226
Planter. Corn.....	A. T. Foster.....	371,051	Oct. 4	461	115	41	91
Planter. Corn.....	I. Haines.....	360,345	Mar. 29	2904	740	38	1474
Planter. Corn.....	F. M. H. Hempel.....	357,199	Feb. 8	680	176	38	556
Planter. Corn.....	H. G. Johnson.....	362,161	May 3	153	44	39	503
Planter. Corn.....	J. Y. Jones.....	367,407	Aug. 2	72	19	40	464
Planter. Corn.....	H. Kendall.....	355,613	Jan. 4	413	113	38	82
Planter. Corn.....	W. Koepke.....	371,596	Oct. 18	1213	{ 316 317	{ 41	254
Planter. Corn.....	J. N. McGriff.....	363,407	May 24	1876	493	39	849
Planter. Corn.....	T. F. Miller.....	370,804	Oct. 4	73	19	41	16
Planter. Corn.....	J. Norris.....	365,700	June 28	2196	{ 573 574	{ 39	1528
Planter. Corn.....	D. Pogue.....	372,564	Nov. 1	413	111	41	549
Planter. Corn.....	M. Shanks and F. Daily.....	363,007	May 17	1341	354	39	736
Planter. Corn.....	W. H. Southwick.....	361,463	Apr. 19	1531	397	39	301
Planter. Corn.....	J. Stevens.....	364,317	June 7	151	42	39	1117
Planter. Corn.....	C. E. Sweney.....	360,489	Apr. 5	134	33	39	26
Planter. Corn.....	J. W. Thomas.....	370,664	Sept. 27	1969	{ 521 522	{ 40	1427
Planter. Corn.....	D. R. Vivion.....	374,218	Dec. 6	67	18	41	1060
Planter. Corn.....	H. J. Wagner.....	372,725	Nov. 8	653	{ 179 180	{ 41	603
Planter. Corn.....	Z. T. White.....	371,867	Oct. 18	1618	417	41	337
Planter. Corn.....	A. S. Winings.....	373,212	Nov. 15	1417	374	41	749
Planter. Corn.....	A. Winston.....	364,155	May 31	2971	772	39	1064
Planter. Corn.....	W. O. Yarborough.....	367,491	Aug. 2	201	56	40	490
Planter. Corn.....	T. C. Young.....	357,509	Feb. 8	1097	289	38	635
Planter. Corn and seed.....	C. C. Henderson.....	357,003	Feb. 1	365	97	38	490
Planter. Cotton.....	J. W. Bartlett.....	365,041	June 21	1213	320	39	1332
Planter. Cotton.....	T. C. Garlington.....	372,665	Nov. 8	564	154	41	586
Planter. Cotton.....	W. T. Magruder.....	371,773	Oct. 18	1474	381	41	308
Planter. Cotton.....	H. Robbins.....	367,766	Aug. 2	627	168	40	569
Planter. Cotton.....	N. R. Rodgers.....	372,488	Nov. 1	296	81	41	527
Planter. Expansion double-shovel corn and cotton.....	R. E. B. Draper.....	358,436	Mar. 1	17	5	38	906
Planter. Hand corn.....	E. J. Hamby.....	375,286	Dec. 20	1601	420	41	1373
Planter. Potato.....	F. M. Burger.....	368,129	Aug. 9	1139	302	40	675
Planter. Potato.....	W. C. Davidson.....	358,188	Feb. 22	2108	556	38	836
Planter. Potato.....	J. Riley.....	374,757	Dec. 13	838	{ 219 220	{ 41	1219
Planter. Potato.....	E. C. Schroeder.....	368,495	Aug. 16	1681	{ 447 448	{ 40	787
Planter. Seed.....	J. Campbell.....	369,585	Sept. 6	372	103	40	1105
Planter. Seed.....	C. H. Clark.....	362,607	May 10	763	210	39	622
Planter. Seed.....	W. A. Dodge.....	360,765	Apr. 5	523	135	39	98
Planter. Seed.....	C. C. Henderson.....	369,286	Aug. 30	2773	{ 739 740	{ 40	1017
Planter. Seed.....	R. Johnson.....	364,824	June 14	894	236	39	1262
Planter. Seed.....	D. Leblanc.....	369,345	Sept. 6	54	16	40	1044
Planter. Seed.....	J. C. Nye.....	361,074	Apr. 12	980	{ 247 248	{ 39	187
Planter. Seed.....	J. A. Pack.....	355,836	Jan. 11	758	199	38	155
Planter. Seed.....	J. Simon.....	370,564	Sept. 27	1819	{ 483 484	{ 40	1397
Planter. Seed.....	J. W. Van Order.....	359,041	Mar. 8	910	232	38	1076
Planter. Seed.....	J. G. Webb.....	358,311	Feb. 22	2265	597	38	866
Planter. Seed or corn.....	R. A. Young.....	366,752	July 19	1383	{ 370 371	{ 40	278
Planter. Tobacco.....	A. A. Simmons.....	355,478	Jan. 4	242	64	38	49
Planters. Anchor for check-row.....	J. C. Barlow.....	367,582	Aug. 2	330	94, 95	40	515
Planters. Anchor for check-row corn.....	J. C. Barlow.....	373,170	Nov. 15	1344	357	41	736
Planters and other machines. Adjustable driving-gear for corn.....	P. J. Lawton.....	365,188	June 21	1430	377	39	1370
Planters. Attachment for corn.....	M. A. Griner.....	372,671	Nov. 8	577	157	41	589

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Planters. Attachment for corn-.....	L. Pfister.....	373,092	Nov. 15	1225	327	41	716
Planters. Attachment for corn-.....	H. Wagner.....	368,031	Aug. 9	1010	272	40	652
Planters. Automatic checker for corn-.....	M. C. Thomas.....	355,802	Jan. 11	707	184	38	146
Planters. Check-row attachment for corn-.....	J. Kennedy.....	362,515	May 10	628	177	39	600
Planters. Check-row attachment for corn-.....	A. J. Walters.....	364,981	June 14	1126	294	39	1305
Planters. Check-row attachment for corn-.....	A. J. Walters.....	369,757	Sept. 13	603	163	40	1158
Planters. Dropper-actuating mechanism for.....	D. N. Baxter.....	366,144	July 5	535	144	40	101
Planters. Dropping attachment for corn-.....	J. M. Bryant.....	369,630	Sept. 6	442	123	40	1119
Planters. Dropping and marking attachment for corn-.....	J. Flynn.....	361,935	Apr. 26	2215	575	39	436
Planters. Feed for cotton-.....	C. W. Oldham.....	365,195	June 21	1440	379	39	1372
Planters. Marking attachment for corn-.....	W. Thompson.....	367,468	Aug. 2	151	43	40	481
Planting attachment.....	J. A. Cumming.....	367,743	Aug. 2	590	{ 160 161 }	{ 40 40 }	562
Planting attachment. Corn-.....	J. B. Pedrick.....	356,290	Jan. 18	1423	375	38	288
Planting machine. Corn-.....	J. H. Jones.....	374,537	Dec. 6	527	{ 138 139 }	{ 41 41 }	1148
Planting machine. Potato-.....	J. P. Wrba.....	373,916	Nov. 29	2461	661	41	967
Plaque.....	F. M. Dammon.....	356,454	Jan. 25	1660	435	38	340
Plaster. Compound to restrain the setting of.....	G. R. King.....	368,594	Aug. 23	1813	.....	40	822
Plaster-fastener.....	F. M. Lampson, A. M. Laning, and G. W. Hogben.....	356,945	Feb. 1	277	77	38	472
Plaster-of-paris casts and molds and making them impervious to water, &c. Hardening and preserv- ing.....	E. T. L. Clark.....	371,550	Oct. 18	1152	.....	41	243
Plaster-of-paris or other compositions or materials. Manufacture of articles from.....	H. Ordenstein.....	370,645	Sept. 27	1943	.....	40	1422
Plasterer's hawk.....	G. W. Jaques.....	357,203	Feb. 8	686	177	38	557
Plastering. Backing for.....	J. L. Clarke.....	374,826	Dec. 13	941	245	41	1240
Plastering. Composition of matter for.....	M. Turly.....	364,555	June 7	500	.....	39	1182
Plastering machine. Brick-.....	R. E. Hunn.....	370,061	Sept. 20	1084	286	40	1254
Plastering walls, &c. Composition of matter for.....	G. H. Wooster.....	367,173	July 26	1943	.....	40	391
Plastering. Wire foundation for.....	C. A. Sackett.....	372,818	Nov. 8	816	218	41	631
Plastic composition.....	J. A. McClelland.....	366,231	July 12	665	.....	40	133
Plastic compound for use in the decorative arts, &c.....	W. Matt.....	366,967	July 19	1661	.....	40	331
Plastic material. Machine for producing plain or ornamental articles from.....	A. G. and O. G. Hohre.....	361,822	Apr. 26	2049	{ 533 534 }	{ 39 39 }	405
Plastic material. Making hollow forms from.....	F. V. Jones and J. G. Jarvis.....	368,591	Aug. 23	1809	482	40	821
Plate or dish and adjustable cover for the same.....	W. Haddock.....	373,801	Nov. 22	2296	615	41	927
Plate-rack.....	W. S. Dimes.....	371,044	Oct. 4	450	113	41	89
Plate rim. Pie-.....	C. A. Crawford.....	368,382	Aug. 16	1504	401	40	755
Plates. Shaving-machine for curved.....	G. E. Lloyd.....	367,987	Aug. 9	949	256	40	640
Plated goods. Manufacturing.....	A. E. Shader.....	356,234	Jan. 18	1345	355	38	272
Platform: See Car-platform. Dumping-platform. Car safety-platform. Vehicle-spring platform. Coffin-platform.							
Platform adjustment.....	W. F. Olin.....	364,036	May 31	2803	726	39	1032
Platinum by electricity. Deposition of.....	W. A. Thoms.....	367,731	Aug. 2	578	.....	40	560
Play with rotating gig.....	G. Fischer.....	359,317	Mar. 15	1278	331	38	1154
Plier. Hair-spring.....	T. Reeve, Jr.....	356,729	Jan. 25	2040	536	38	411
Pliers.....	C. B. Manley.....	370,960	Oct. 4	333	83	41	65
Pliers for securing fasteners to the corners of boxes.....	T. A. Taylor.....	371,639	Oct. 18	1272	330	41	266
Pliers. Gas-.....	W. P. Dahl.....	356,241	Jan. 18	1351	357	38	274
Plow.....	J. W. Allen.....	357,443	Feb. 8	1001	{ 264 265 }	{ 38 38 }	616
Plow.....	C. Anderson.....	375,469	Dec. 27	1851	484	41	1431
Plow.....	J. Babcock.....	358,184	Feb. 22	2102	555	38	834
Plow.....	J. E. Baker.....	372,103	Oct. 25	1977	508	41	411
Plow.....	C. Billups.....	362,598	May 10	748	207	39	619
Plow.....	C. Billups.....	363,109	May 17	1482	392	39	764
Plow.....	T. Brunner.....	369,391	Sept. 6	114	34	40	1054
Plow.....	W. M. Brunson.....	356,705	Jan. 25	2008	527	38	406
Plow.....	G. W. Carr.....	373,051	Nov. 15	1165	312	41	703
Plow.....	W. L. Casaday.....	369,981	Sept. 13	957	{ 252 253 }	{ 40 40 }	1222
Plow.....	J. H. Donaldson.....	373,131	Nov. 15	1280	341	41	725
Plow.....	W. A. Edmondson.....	359,598	Mar. 22	1743	{ 443 444 }	{ 38 38 }	1255
Plow.....	C. Engel.....	369,329	Sept. 6	27	8	40	1040
Plow.....	T. J. Erwin.....	357,526	Feb. 8	1130	296	38	641
Plow.....	W. A. Fretwell.....	374,829	Dec. 13	944	246	41	1240
Plow.....	L. Gibbs.....	368,527	Aug. 16	1722	459	40	795
Plow.....	W. H. Green.....	366,090	July 5	461	125	40	87
Plow.....	F. Grimm.....	357,279	Feb. 8	782	203	38	575
Plow.....	J. C. Haltom.....	362,002	Apr. 26	2325	606	39	454
Plow.....	C. Hanson.....	360,586	Apr. 5	284	69	39	54
Plow.....	M. J. Hatcher.....	373,829	Nov. 29	2340	628	41	944
Plow.....	J. D. Henderson.....	369,788	Sept. 13	649	175	40	1166
Plow.....	E. H. Inzer.....	359,321	Mar. 15	1281	332	38	1154
Plow.....	E. B. James.....	363,646	May 24	2241	580	39	920
Plow.....	H. and G. Jelinsky.....	366,667	July 19	1265	337	40	256
Plow.....	C. S. Jenkins.....	355,534	Jan. 4	311	83	38	63
Plow.....	J. P. Kirk.....	371,593	Oct. 18	1209	315	41	253
Plow.....	J. P. Kirk.....	371,594	Oct. 18	1210	316	41	253
Plow.....	A. Klinger.....	359,613	Mar. 22	1765	448	38	1259
Plow.....	W. F. Leslie.....	361,366	Apr. 19	1407	363	39	277
Plow.....	D. Lewis.....	370,069	Sept. 20	1095	290	40	1256
Plow.....	W. J. Locke.....	365,615	June 28	2074	541	39	1506
Plow.....	F. B. Manly.....	369,727	Sept. 13	570	{ 155 156 }	{ 40 40 }	1152
Plow.....	L. McWhinney.....	366,420	July 12	902	243	40	178
Plow.....	J. H. Morley.....	372,557	Nov. 1	403	108	41	547
Plow.....	J. F. Murchison.....	370,808	Oct. 4	78	20, 21	41	17

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Plow.....	T. Pate.....	359,465	Mar. 15	1496	383	38	1194
Plow.....	J. W. Piver.....	356,548	Jan. 25	1787	{ 465 466	{ 38	363
Plow.....	J. T. Prior.....	366,128	July 5*	518	140	40	98
Plow.....	A. J. Ross.....	357,100	Feb. 1	505	134	38	515
Plow.....	H. H. Sater.....	365,866	July 5	154	40	40	31
Plow.....	W. W. Selvidge.....	371,220	Oct. 11	692	177	41	145
Plow.....	J. T. Senteney.....	373,489	Nov. 22	1837	489	41	840
Plow.....	A. J. Smith.....	372,179	Oct. 25	2086	534	41	431
Plow.....	G. B. St. John.....	373,497	Nov. 22	1856	493	41	843
Plow.....	J. W. Stallings.....	367,457	Aug. 2	136	39	40	477
Plow.....	W. Strait. (Reissue).....	10,839	May 31	3054	795	39	1079
Plow.....	A. L. Thompson.....	360,627	Apr. 5	337	84	39	64
Plow.....	M. J. Todd.....	374,565	Dec. 6	572	150	41	1157
Plow.....	M. Turley and R. F. Bryant.....	365,156	June 21	1389	367	39	1362
Plow.....	W. T. Vanvactor.....	375,516	Dec. 27	1909	500	41	1442
Plow.....	W. W. Webb.....	356,808	Feb. 1	91	25	38	440
Plow.....	R. W. Whitehurst.....	362,912	May 10	1200	321	39	704
Plow.....	R. W. Whitehurst.....	365,358	June 21	1677	438	39	1418
Plow.....	G. Wilson.....	360,075	Mar. 29	2499	635	38	1400
Plow.....	G. Wolverton.....	371,908	Oct. 18	1680	433	41	347
Plow and cultivator.....	A. Schnell.....	359,181	Mar. 8	1084	282	38	1111
Plow and grubber.....	H. C. Moore.....	366,597	July 12	1163	{ 312 313	{ 40	230
Plow and harrow. Combined.....	W. P. Clark.....	369,589	Sept. 6	378	105	40	1107
Plow and planter. Combined.....	A. Lindgren.....	374,415	Dec. 6	345	90	41	1111
Plow and pulverizer. Combined.....	E. F. Baker.....	355,292	Jan. 4	3	1	38	3
Plow and seeder. Combined.....	B. F. Parks.....	369,409	Sept. 6	136	39	40	1058
Plow and seeder. Combined listing.....	C. A. Conger.....	364,484	June 7	394	107	39	1162
Plow attachment.....	M. J. Dalrymple.....	361,578	Apr. 19	1691	437	39	331
Plow attachment.....	F. T. Gibson.....	368,713	Aug. 23	1987	527	40	855
Plow attachment.....	E. G. Goddard.....	375,283	Dec. 20	1598	419	41	1373
Plow attachment.....	A. B. Nuckols.....	371,516	Oct. 11	1102	287	41	224
Plow attachment.....	J. A. Rew.....	359,632	Mar. 22	1786	455	38	1263
Plow-blades. Manufacture of.....	C. M. French.....	356,530	Jan. 25	1760	458	38	358
Plow break-pin attachment.....	M. F. Myers.....	373,784	Nov. 22	2268	608	41	922
Plow. Combination.....	S. S. Neville.....	355,465	Jan. 4	221	59	38	45
Plow. Cultivator.....	J. Bergeron.....	372,396	Nov. 1	167	47	41	500
Plow. Cultivator.....	B. F. Johnson.....	373,187	Nov. 15	1375	364	41	741
Plow device.....	E. Desobry.....	372,364	Nov. 1	122	37	41	494
Plow. Ditching.....	H. Adams.....	359,196	Mar. 8	1108	{ 288 289	{ 38	1115
Plow. Double-shovel.....	E. B. Buchanan.....	368,871	Aug. 23	2203	586	40	897
Plow. Double-shovel.....	F. C. Geiger.....	365,252	June 21	1530	398	39	1388
Plow. Double-shovel.....	T. W. Palmer.....	363,298	May 17	1732	453	39	813
Plow. Drain.....	J. Harper.....	361,696	Apr. 26	1873	486	39	374
Plow-fender.....	A. Stoner, S. J. Hatcher, and W. H. Carroll.....	355,482	Jan. 4	248	65	38	50
Plow. Fire.....	J. B. Oliver.....	364,768	June 14	806	212	39	1246
Plow for cultivating corn or cotton.....	E. F. Castleberry.....	356,446	Jan. 25	1648	432	38	337
Plow for spreading and trimming ballast on railways.....	T. Rodger.....	373,907	Nov. 29	2449	658	41	964
Plow. Gang.....	F. M. Hinchman.....	359,355	Mar. 15	1335	345	38	1164
Plow. Gang.....	F. F. Landis.....	372,854	Nov. 8	866	{ 231 232	{ 41	639
Plow. Garden.....	B. McHatton.....	375,647	Dec. 27	2102	547	41	1477
Plow-guard and underscore.....	H. Johnston.....	368,290	Aug. 16	1302	367	40	731
Plow, harrow, and cultivator. Combined.....	F. P. Sanborn.....	371,370	Oct. 11	896	{ 230 231	{ 41	183
Plow, harrow, and planter. Combined.....	T. R. Crane.....	364,906	June 14	1013	266	39	1285
Plow. Hillside.....	H. E. McWane and M. H. Dudley.....	372,481	Nov. 1	289	80	41	525
Plow-jointer.....	T. Lowden.....	362,023	Apr. 26	2355	614	39	459
Plow. Lister.....	A. Lindgren.....	364,829	June 14	900	238	39	1263
Plow. Lister.....	E. P. Lynch.....	375,081	Dec. 20	1329	347	41	1320
Plow. Listing.....	J. S. Crum.....	355,978	Jan. 11	983	258	38	199
Plow mold-board.....	C. G. Herrström.....	355,931	Jan. 11	912	238	38	185
Plow or cultivator. Straddle-row.....	T. Lacklin.....	365,609	June 28	2069	539	39	1505
Plow or scraper for making roads.....	D. D. Morgan.....	366,677	July 19	1280	{ 341 342	{ 40	259
Plow. Planting.....	J. P. Black.....	360,271	Mar. 29	2809	714	38	1457
Plow-point.....	M. H. Effinger.....	364,912	June 14	1022	267	39	1286
Plow-point.....	D. J. Spaulding and T. Thistlewood.....	356,172	Jan. 18	1261	333	38	257
Plow. Reversible.....	N. McLean.....	364,362	June 7	211	58	39	1128
Plow. Reversible sulky.....	G. M. Clark.....	367,188	July 26	1963	531	40	395
Plow. Reversible sulky.....	J. Willson.....	358,180	Feb. 22	2095	553	38	833
Plow. Revolving.....	A. F. La Shells.....	356,284	Jan. 18	1413	{ 372 373	{ 38	286
Plow. Riding.....	J. G. Cockshutt.....	359,125	Mar. 8	1018	263	38	1098
Plow. Rotary.....	C. R. Foster.....	360,090	Mar. 29	2519	641	38	1404
Plow. Rotary.....	H. Myers.....	357,963	Feb. 15	1770	464	38	769
Plow. Shovel.....	T. J. Barwick.....	369,905	Sept. 13	833	221	40	1201
Plow-shovel. Adjustable.....	A. B. Root and J. F. Youtz.....	357,788	Feb. 15	1539	401	38	725
Plow. Side-hill.....	C. Anderson.....	365,162	June 21	1397	{ 368 369	{ 39	1364
Plow. Side-hill.....	E. W. Horton.....	363,238	May 17	1650	433	39	798
Plow. Side-hill gang.....	S. M. Cunningham.....	372,403	Nov. 1	175	50	41	503
Plow. Side-hill sulky.....	H. Wiard and W. R. Bullock.....	372,884	Nov. 8	911	246	41	647
Plow-standard.....	M. N. Laufenburg.....	374,686	Dec. 13	736	193	41	1200
Plow-standard.....	E. F. McIntyre.....	372,228	Oct. 25	2162	535	41	446
Plow. Stump.....	W. Painter.....	368,778	Aug. 23	2077	550	40	872
Plow. Sulky.....	O. C. Bateman.....	355,676	Jan. 11	522	{ 137 138	{ 38	111
Plow. Sulky.....	I. W. Beckwith.....	361,257	Apr. 19	1256	321	39	250
Plow. Sulky.....	S. E. Calif.....	356,746	Feb. 1	10	4	38	425
Plow. Sulky.....	C. Curtis.....	361,210	Apr. 12	1191	302	39	225
Plow. Sulky.....	H. A. Freeman.....	355,445	Jan. 4	196	53	38	40

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Plow. Sulky.....	P. B. Friburk and F. A. Borer.....	373,450	Nov. 22	1771	470	41	828
Plow. Sulky.....	H. Gale.....	360,217	Mar. 29	2722	688	38	1440
Plow. Sulky.....	M. T. Hancock.....	366,094	July 5	466	{ 126 127 }	{ 40 88 }	
Plow. Sulky.....	J. Marx and A. Virnig.....	361,830	Apr. 26	2066	537	39	408
Plow. Sulky.....	C. E. Tower.....	359,190	Mar. 8	1099	286	38	1113
Plow. Three-wheel riding.....	B. F. Butler.....	357,574	Feb. 15	1217	320	38	667
Plow. Three-wheel riding gang.....	B. F. Butler.....	357,573	Feb. 15	1215	320	38	667
Plow. Wheel.....	J. Clayton.....	364,899	June 14	1006	{ 263 264 }	{ 39 1283 }	
Plow. Wheel.....	M. T. Hancock.....	374,152	Nov. 29	2794	750	41	1032
Plow. Wheel.....	A. C. Hayden and C. J. Powell.....	355,607	Jan. 4	401	109	38	80
Plow-wheel.....	H. T. Owens.....	363,963	May 31	2706	701	39	1012
Plow-wheel.....	C. H. Steavens.....	364,735	June 14	739	197	39	1236
Plows and cultivators. Hoeing and covering attachment for.....	J. H. Higgins.....	362,627	May 10	797	218	39	628
Plows. Anvil for forming landsides for.....	C. N. Asselstine.....	371,164	Oct. 11	616	157	41	129
Plows. Attachment for sulky.....	J. R. Raudabaugh.....	355,338	Jan. 4	67	18	38	14
Plows. Break-pin appliance for.....	A. Lindgren.....	358,209	Feb. 22	2131	562	38	841
Plows. Corn-planting attachment for.....	F. L. Aten.....	371,812	Oct. 18	1532	395	41	319
Plows. Device for attaching handles to.....	C. F. Seaman.....	362,321	May 3	347	95, 96	39	541
Plows. Frame for sulky.....	E. L. Clancy.....	369,588	Sept. 6	376	104	40	1106
Plows. Lever-scraper for cleaning.....	A. W. Tucker.....	372,719	Nov. 8	639	174	41	601
Plows. Manure-scraper for.....	A. Zerrenner.....	373,630	Nov. 22	2056	547	41	880
Plows. Pulverizing attachment for.....	W. G. Ketchum.....	357,607	Feb. 15	1261	332	38	675
Plows. Skeleton frame for.....	C. Anderson.....	375,525	Dec. 27	1921	503	41	1445
Plows. Slip-nose attachment for.....	C. Anderson.....	368,043	Aug. 9	1024	276	40	654
Plows. Tile-laying attachment for mole.....	M. Christiansen.....	355,588	Jan. 4	380	102	38	76
Plowshares. Anvil for forming.....	C. N. Asselstine.....	371,163	Oct. 11	615	157	41	129
Plowshares. Clamp for holding.....	G. W. Thorp.....	359,109	Mar. 8	1002	258	38	1095
Plug for nail or other holes. Wood.....	J. R. Little and C. T. Stoddard.....	370,200	Sept. 20	1287	343	40	1292
Plug or wedge. Quarrying.....	M. and J. Bentley.....	374,574	Dec. 13	590	154	41	1170
Plumber's clamp.....	E. W. Harding.....	356,937	Feb. 1	267	73, 74	38	470
Plumber's or tinner's furnace.....	Z. Davis.....	374,398	Dec. 6	321	85	41	1107
Plumbers' traps. Apparatus for forming.....	G. W. Wicks.....	359,758	Mar. 22	1979	501	38	1297
Plumbers' traps. Apparatus for making.....	J. McCloskey.....	356,258	Jan. 18	1369	362	38	278
Plumbers' traps. Machine for forming.....	G. W. Wicks.....	359,755	Mar. 22	1972	500	38	1296
Plumbers' traps. Making.....	G. W. Wicks.....	359,757	Mar. 22	1976	{ 500 501 }	{ 38 1297 }	
Plumbers' traps. Manufacturing.....	G. W. Wicks.....	359,756	Mar. 22	1975	500	38	1296
Plume.....	H. D. Jackson.....	361,948	Apr. 26	2235	582	39	440
Plush. Machine for clouding or marbleizing.....	E. Rau.....	362,178	May 3	168	49, 50	39	506
Pneumatic cabinet.....	W. J. Harris.....	365,067	June 21	1259	332	39	1339
Pneumatic cabinets, &c. Bolting device for.....	C. Rippe.....	368,784	Aug. 23	2085	552	40	873
Pneumatic dispatch. Electric block system for.....	A. Bryson, Jr., and H. S. Mudge.....	365,787	July 5	21	8	40	7
Pneumatic dispatch. Sending device for.....	A. Bryson, Jr., and H. S. Mudge.....	370,044	Sept. 20	1060	281	40	1249
Pneumatic dispatch systems. Combined gate and block for.....	A. Bryson, Jr., and H. S. Mudge.....	356,865	Feb. 1	173	46	38	454
Pneumatic dispatch tube and carrier.....	C. M. Johnson.....	372,023	Oct. 25	1842	477	41	388
Pneumatic dispatch-tube. Electrical.....	J. F. McLaughlin.....	359,540	Mar. 15	1617	415	38	1217
Pneumatic dispatch-tube system.....	C. M. Johnson.....	372,223	Oct. 25	2156	553	41	444
Pneumatic dispatch-tube systems. Carrier for electro.....	J. F. McLaughlin.....	359,456	Mar. 15	1484	380	38	1192
Pneumatic dispatch-tubes. Automatic gate-lock for.....	A. Bryson, Jr., and H. S. Mudge.....	357,174	Feb. 8	643	167	38	549
Pneumatic elevator.....	J. Mabbs.....	355,697	Jan. 11	550	145	38	117
Pneumatic engine.....	S. P. M. Tasker.....	364,451	June 7	347	95, 96	39	1154
Pocket attachment. Safety.....	J. Williams and A. Judson.....	362,913	May 10	1201	321	39	704
Pocket-battery.....	L. T. Stanley.....	363,304	May 17	1739	{ 455 456 }	{ 39 815 }	
Pocket-book.....	J. A. Iliff.....	358,272	Feb. 22	2215	584	38	856
Pocket-book clasp.....	R. R. Debacher.....	370,122	Sept. 20	1178	312	40	1270
Pocket-book clasp.....	E. A. Oldenbusch.....	367,313	July 26	2158	581	40	431
Pocket-book clasp.....	L. B. Prahar.....	368,685	Aug. 23	1944	516	40	848
Pocket-books and other articles. Frame for.....	L. Messer.....	371,347	Oct. 11	869	223	41	177
Pocket-books, &c. Frame for.....	L. Messer.....	374,487	Dec. 6	455	118	41	1133
Pocket-books. Safety attachment for.....	W. L. Burton.....	358,380	Feb. 22	2360	627	38	884
Pocket-books, satchels, &c. Frame for.....	L. B. Prahar.....	365,200	June 21	1444	381	39	1374
Pocket-books. Spring or snap-clasp for.....	E. A. Oldenbusch.....	367,544	Aug. 2	274	77	40	503
Pocket-case. Combined.....	I. G. Raffel.....	375,683	Dec. 27	2160	562	41	1487
Pocket-clasp.....	H. M. Welliver.....	357,351	Feb. 8	875	230	38	593
Pocket. Detachable watch.....	C. A. Burbank.....	359,343	Mar. 15	1315	341	38	1160
Pocket for garments.....	A. B. Reisman.....	371,974	Oct. 25	1775	460	41	376
Pocket-knife.....	E. M. Boynton.....	373,580	Nov. 22	1982	526	41	865
Pocket-knife.....	T. R. Ellin.....	360,866	Apr. 12	671	176	39	132
Pocket-knife.....	J. C. Friedmann.....	361,755	Apr. 26	1955	510	39	388
Pocket-knife.....	C. Hollweg.....	364,414	June 7	290	80	39	1143
Pocket-knife.....	G. W. Miller.....	365,086	June 21	1283	339	39	1343
Pocket-knife.....	G. W. Miller.....	372,321	Nov. 1	55	16	41	481
Pocket-knife.....	J. Wiesner.....	357,353	Feb. 8	878	231	38	593
Pocket. Pencil.....	A. M. Roscoe.....	374,131	Nov. 29	2765	743	41	1026
Pocket-protector.....	D. J. Scott.....	361,454	Apr. 19	1520	393	39	299
Pocket. Safety.....	E. Strouse.....	358,823	Mar. 1	589	146	38	1013
Pocket stay and holder.....	B. E. Tilden.....	367,939	Aug. 9	882	240	40	627
Poke. Animal.....	F. Schwalm.....	361,839	Apr. 26	2081	542	39	411
Poke. Animal.....	P. A. Spicer.....	366,983	July 19	1682	452	40	334
Poke. Stock.....	H. B. Curry.....	367,026	July 26	1737	468	40	352
Poker.....	J. P. Beck.....	355,754	Jan. 11	635	165	38	134
Pole. Adjustable tent.....	P. Lewis.....	359,795	Mar. 22	2032	515	38	1307
Pole. Aligning.....	F. Danforth.....	355,303	Jan. 4	16	5	38	5
Pole attachment. Curtain.....	G. Lockhart.....	366,330	July 12	795	215	40	158
Pole. Carriage.....	J. McCrudden.....	365,444	June 28	1816	473	39	1455
Pole. Carriage.....	M. H. Woodhull and C. M. Blydenburgh.....	366,442	July 12	929	253	40	184
Pole-crab.....	L. Dove.....	366,385	July 12	866	232	40	171

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Pole. Tent.....	D. Jannopoulos.....	359,157	Mar. 8	1057	275	38	1106
Pole. Vehicle.....	J. J. Ryan.....	358,168	Feb. 22	2073	545	38	829
Poles and thills. Device for bending and drying carriage.....	W. D. Parker.....	358,692	Mar. 1	407	98	38	979
Police-nippers.....	W. L. Lightbown.....	365,614	June 28	2072	540	39	1506
Policeman's club.....	A. J. Bradish.....	365,904	July 5	207	53	40	40
Policeman's club and making the same.....	E. D. Bean.....	365,228	June 21	1479	390	39	1381
Polishing-lap.....	G. E. Brown.....	369,431	Sept. 6	166	48	40	1063
Polishing-machine.....	R. B. Codling.....	373,882	Nov. 29	2412	648	41	958
Polishing-wheel.....	H. E. Fowler.....	373,653	Nov. 22	2089	558	41	888
Polishing-wheel.....	F. P. Pfleggar.....	372,041	Oct. 25	1884	486	41	394
Polypantograph.....	E. Frankenberg.....	370,939	Oct. 4	299	73	41	59
Pool and billiard tables. Attachment for.....	T. E. Mather.....	363,837	May 31	2516	{ 653 654 }	{ 39 41 }	978
Pool-ball cabinet.....	L. H. F. Coquard and F. A. McGinnis.....	371,821	Oct. 18	1544	399	41	322
Pool-rack and ball-spotter. Combined.....	G. Henkel. (Reissue).....	10,801	Jan. 25	2055	{ 539 540 }	{ 38 38 }	414
Pool-rack. Self-tallying.....	A. Minnick.....	358,782	Mar. 1	531	129	38	1002
Pool-table attachment.....	X. Marghieri.....	366,123	July 5	513	{ 138 139 }	{ 40 40 }	97
Pool-table ball-carrier.....	R. T. Parker.....	357,853	Feb. 15	1625	422	38	742
Pool-tables. Pocket-frame clamp for.....	A. G. Nygard.....	365,849	July 5	128	34	40	26
Portable boiler.....	W. Berrenberg.....	360,847	Apr. 12	641	{ 169 170 }	{ 39 39 }	127
Portable elevator.....	S. C. Derby.....	373,648	Nov. 22	2083	556	41	887
Portable elevator.....	T. Evans.....	363,616	May 24	2198	569	39	912
Portable engine.....	A. Pifre.....	374,318	Dec. 6	213	56, 57	41	1086
Portable engine.....	C. H. Waterous.....	358,952	Mar. 8	792	{ 199 200 }	{ 38 38 }	1055
Portable furnace.....	W. H. H. Knight.....	355,696	Jan. 11	548	144	38	117
Portable heater.....	E. B. Warren.....	375,109	Dec. 20	1375	357	41	1328
Portable house.....	W. M. Ducker.....	355,441	Jan. 4	189	50, 51	38	38
Portfolio.....	S. W. Bates.....	357,808	Feb. 15	1560	406	38	730
Portfolio and easel. Combined.....	L. Prang.....	357,625	Feb. 15	1283	337	38	679
Post: See Binding-post. Lamp-post. Fence-post. Lathe tool-post. Hitching-post. Railway buffer-post.							
Post-anchor.....	W. P. Logan.....	373,240	Nov. 15	1460	384	41	757
Post-driver.....	E. C. Hunter.....	368,949	Aug. 30	2325	618	40	929
Post-driving machine. Portable.....	J. C. Dobie.....	358,023	Feb. 22	1851	490	38	789
Post-hole digger.....	J. W. Clark.....	358,335	Feb. 22	2294	605	38	873
Post-hole digger.....	J. H. Humphrey.....	363,745	May 24	2383	618	39	947
Post-hole digger.....	J. H. Humphrey.....	374,304	Dec. 6	192	51	41	1082
Post-hole digger.....	G. H. Johnson.....	370,482	Sept. 27	1697	450	40	1376
Post-hole digger.....	S. L. Madden.....	375,556	Dec. 27	1970	513	41	1453
Post-hole digger.....	N. Newman.....	370,810	Oct. 4	81	21	41	18
Post-hole digger.....	J. C. Wygant.....	370,514	Sept. 27	1743	463	40	1384
Post-office signal call-box.....	E. O. Bryden.....	361,046	Apr. 12	941	238	39	179
Post or pile driver.....	J. M. Bristol.....	371,733	Oct. 18	1420	367	41	297
Post or pile driver.....	E. and A. Welsh.....	363,706	May 24	2331	605	39	937
Postal packet.....	H. A. Robinson.....	374,204	Dec. 6	52	13	41	1057
Postmarker and stamp-canceler.....	J. N. Williams.....	367,487	Aug. 2	187	52, 53	40	487
Pot: See Coffee-pot. Molder's pot. Coffee and tea pot. Sprinkling-pot. Coffee or tea pot. Tea-pot. Flower-pot. Tea or coffee pot. Marking-pot. Watering-pot.							
Pot and lid lifter.....	J. W. Chestnut.....	358,803	Mar. 1	557	139	38	1008
Pot-cover.....	J. M. Stewart.....	355,796	Jan. 11	701	183	38	145
Pot-cover and colander. Combined.....	E. A. Oliver.....	355,622	Jan. 4	424	117	38	84
Potassium bichromate. Making.....	W. Simon.....	366,036	July 5	396		40	75
Potato-bugs. Machine for catching and destroying.....	E. Crowley.....	361,139	Apr. 12	1078	272	39	205
Potato-digger.....	L. A. Aspinwall.....	372,351	Nov. 1	99	29	41	490
Potato-digger.....	G. C. Bartlett.....	366,553	July 12	1087	294	40	216
Potato-digger.....	W. Bradford.....	365,574	June 28	2016	526	39	1495
Potato-digger.....	J. Butman.....	355,637	Jan. 4	463	124	38	91
Potato-digger.....	G. M. Clark.....	363,117	May 17	1494	395	39	766
Potato-digger.....	A. C. Collins.....	369,501	Sept. 6	251	71	40	1082
Potato-digger.....	A. J. Cowman.....	367,192	July 26	1969	532	40	396
Potato-digger.....	S. P. Hedges.....	365,379	June 28	1724	446	39	1438
Potato-digger.....	P. J. Heller.....	359,606	Mar. 22	1753	446	38	1257
Potato-digger.....	C. M. French.....	375,484	Dec. 27	1870	{ 488 489 }	{ 41 41 }	1434
Potato-digger.....	D. Levarn.....	374,797	Dec. 13	897	235	41	1231
Potato-digger.....	J. Lundergan.....	372,757	Nov. 8	696	192	41	611
Potato-digger.....	L. Mellet.....	357,618	Feb. 15	1275	335	38	678
Potato-digger.....	H. F. Meyer.....	368,482	Aug. 16	1658	442	40	784
Potato-digger.....	T. A. Morrow.....	359,091	Mar. 8	972	249	38	1089
Potato-digger.....	I. and E. Saltsman.....	365,865	July 5	152	40	40	31
Potato-digger.....	J. W. Scott.....	364,443	June 7	335	92	39	1152
Potato-digger.....	C. C. Stover.....	365,880	July 5	174	44, 45	40	35
Potato-digger.....	H. Strait.....	361,335	Apr. 19	1356	349	39	268
Potato-digger.....	E. Traxler.....	363,098	May 17	1464	388	39	761
Potato-digger.....	W. Young.....	357,260	Feb. 8	758	197	38	570
Potato digging and harvesting machine. Combined.....	A. P. W. Wade.....	375,235	Dec. 20	1537	{ 403 404 }	{ 41 41 }	1362
Potato-digging machine.....	F. M. Thorn.....	366,044	July 5	409	111	40	77
Potato-digging machine.....	G. Wragg and J. Strohm.....	372,006	Oct. 25	1818	471	41	383
Potato-masher.....	G. M. Drum.....	370,861	Oct. 4	165	44	41	33
Potato-masher and fruit-crusher.....	J. Fitzgerald and W. H. Silver.....	371,882	Oct. 18	1644	425	41	341
Potter's machine.....	W. H. Ivens.....	367,525	Aug. 2	251	71	40	499

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Potter's mold	J. S. Mayer	356,773	Feb. 1	41	12	38	431
Potter's mold	J. S. Mayer	356,774	Feb. 1	42	12	38	431
Pottery-kiln	J. S. Mayer	356,775	Feb. 1	43	12	38	431
Pottery. Manufacture of	M. L. Storer	361,231	Apr. 12	1224	.....	39	232
Pottery-ware. Production of ornamental	H. L. Doulton and W. P. Rix	366,310	July 12	768	207	40	153
Poultice-pan	K. Scanlon	370,561	Sept. 27	1815	483	40	1397
Poultry-brooder	M. Davenport	371,307	Oct. 11	811	207	41	167
Poultry. Device for decapitating	N. D. Lamb	368,403	Aug. 16	1533	409	40	761
Poultry-house front	J. G. Staunton	366,697	July 19	1305	{ 349 350 }	{ 40 40 }	264
Poultry-houses. Appliance for	J. G. Staunton	366,699	July 19	1308	351	40	265
Poultry-houses. Forage-creel for	J. G. Staunton	366,698	July 19	1306	350	40	265
Poultry-houses. Portable runway for	J. G. Staunton	366,696	July 19	1304	349	40	264
Pouncing-machine	F. C. Taylor	374,213	Dec. 6	62	16	41	1059
Powder:							
See Blasting-powder. Effervescent beverage							
Condition powder. powder.							
Powder. Bellows-package for distributing	M. Ernst	366,942	July 19	1630	436	40	324
Powder-divider	J. C. Michael	368,227	Aug. 16	1304	344	40	714
Powder-insufflator	D. H. Goodwillie	355,816	Jan. 11	729	190	38	150
Powders. Apparatus for dividing medicinal or other.	I. Robbins	370,351	Sept. 20	1488	399	40	1331
Power:							
See Animal-power. Horse-power.							
Auger-power. Motive power.							
Chain and lever Pendulum-power.							
power. Tread-power.							
Churn-power. Water-power.							
Foot-power. Weight-power.							
Power. Apparatus for transmitting	J. Donaldson and G. A. Dallett.	361,680	Apr. 26	1854	481	39	371
Power apparatus. Operation of motive-	M. Blumrich	374,926	Dec. 20	1098	.....	41	1278
Power. Applying	J. H. Beebe	359,591	Mar. 22	1733	441	38	1253
Power-brake	R. Solano	358,992	Mar. 8	849	215	38	1065
Power-brake	R. Solano	360,179	Mar. 29	2673	{ 674 675 }	{ 38 38 }	1431
Power-brake	R. Solano	365,647	June 28	2113	{ 551 552 }	{ 39 39 }	1513
Power. Coin-operated machine for testing muscular.	P. Everitt	374,049	Nov. 29	2649	{ 710 711 }	{ 41 41 }	1004
Power. Device for transmitting	W. H. Dodge	359,596	Mar. 22	1742	443	38	1254
Power. Device for transmitting	W. H. Dodge	359,597	Mar. 22	1742	443	38	1255
Power. Frictional gear for transmission of	W. R. Ravens	362,743	May 10	959	261	39	659
Power mechanism for reciprocating plungers	G. McCarn	367,539	Aug. 2	266	75	40	502
Power-press	J. A. Horton	361,158	Apr. 12	1114	282	39	211
Power-press	N. C. Stiles	364,142	May 31	2954	767	39	1060
Power-transmitter	F. W. Ostrom	366,504	July 12	1019	278	40	202
Power-transmitters. Automatic regulating device	W. R. Close	368,570	Aug. 23	1783	475	40	816
for							
Power-transmitting machinery	E. Winans	374,027	Nov. 29	2611	701	41	997
Power-wheel	L. Z. Grigsby	358,268	Feb. 22	2200	579	38	853
Preserver. Food-	T. M. Foote	363,625	May 24	2215	573	39	915
Preserver. Fruit-	A. E. Barber	370,035	Sept. 20	1051	278	40	1248
Preserving fruit. Compound for	S. J. Hoggson	367,632	Aug. 2	403	.....	40	528
Preserving meats, &c. Vessel for	P. E. Establie	370,250	Sept. 20	1348	{ 360 361 }	{ 40 40 }	1303
Preserving shrimps in metal cans	G. W., G. H., and F. B. Dunbar. (Reissue.)	10,848	July 12	1225	327	40	242
Press:							
See Baling-press. Hay-press.							
Cider-press. Hydraulic press.							
Cider or wine press. Hydraulic and knuckle-							
Cigar-press. joint press.							
Cigar-mold press. Lard, fruit, and oil press.							
Copying-press. Lever-press.							
Cork press. Molding-press.							
Cotton-press. Oil-press.							
Cotton and cotton- Paint-press.							
seed press. Paint-can press.							
Cotton and hay press. Power-press.							
Cotton or hay press. Printing-press.							
Die-press. Printing and stamping							
Domestic press. press.							
Dough-press. Seal-press.							
Drill-press. Screw-press.							
Filter-press. Seed-press.							
Fodder-press. Soap-press.							
Fruit-press. Tablet-press.							
Gunpowder-press. Wine-press.							
Hand-press.							
Press	D. B. Cooke	356,681	Jan. 25	1975	519	38	400
Press	J. B. and O. B. Johnson	356,475	Jan. 25	1687	441	38	345
Press	F. Meschini	368,103	Aug. 9	1108	294	40	669
Press	S. B. Minnich	366,339	July 12	807	217	40	160
Press and a folder. Sheet-associating mechanism }	C. Kahler	373,024	Nov. 8	1123	{ 300 301 }	{ 41 41 }	685
between a							
Press and seaming-machine. Combined	H. Pattison	359,280	Mar. 15	1231	320	38	1144
Press for packing bran	C. H. Browne	368,127	Aug. 9	1135	{ 301 302 }	{ 40 40 }	674
Press for packing bran, &c.	C. H. Browne	357,814	Feb. 15	1567	{ 408 409 }	{ 38 38 }	731
Press for stamping metal seals, &c.	A. Rast, M. Gasser, and H. Zwan- ziger.	373,905	Nov. 29	2448	657	41	964
Presses. Automatic brake for power-	J. H. Clapp	365,047	June 21	1222	323	39	1333
Presses. Bridge-spring action for oscillating-platen.	J. Thomson	373,571	Nov. 22	1970	524	41	863
Presses. Curb for	F. W. Cross	370,247	Sept. 20	1344	359	40	1303

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Presses. Rack for wine or cider	R. E. Boschert	368,056	Aug. 9	1045	280	40	658
Presser-foot and attachment-holder. Combined	J. P. Lavigne	359,452	Mar. 15	1481	379	38	1191
Presser-foot and welt-guide combined	E. C. Ross	366,259	July 12	703	190	40	140
Pressing fabrics. Machine for	G. W. Miller	361,773	Apr. 26	1982	517	39	392
Pressure and heat regulator. Automatic steam	O. B. Brann	363,275	May 17	1700	445	39	808
Pressure engine. Electric fluid	G. Westinghouse, Jr	358,520	Mar. 1	156	38	38	932
Pressure-gage	J. L. Chapman	355,381	Jan. 4	116	32	38	25
Pressure-gage	A. C. Meady and W. A. Dodge	373,532	Nov. 22	1918	508	41	854
Pressure motor and circuits therefor. Electrically-actuated fluid	G. Westinghouse, Jr	358,713	Mar. 1	437	107	38	985
Pressure motor. Electrically-actuated fluid	G. Westinghouse, Jr	358,521	Mar. 1	160	38	38	932
Pressure motor. Fluid	G. Westinghouse, Jr	359,303	Mar. 15	1259	{ 326 327 }	{ 38 38 }	{ 1150 1150 }
Pressure-regulating apparatus	T. B. Carroll	370,766	Oct. 4	20	5	41	6
Pressure-regulator	F. M. Livingston	357,720	Feb. 15	1429	375	38	706
Pressure-regulator	G. W. Pearsons	367,232	July 26	2040	549	40	410
Pressure-regulator	J. W. Ramsey	361,082	Apr. 12	990	250	39	189
Pressure-regulator	J. E. Watt	361,796	Apr. 26	2015	524	39	399
Pressure-regulator and cut-off	T. J. Kieley	360,890	Apr. 12	705	{ 186 187 }	{ 39 39 }	{ 138 138 }
Pressure-regulator and cut-off	O. J. McGann	360,607	Apr. 5	310	76	39	59
Pressure regulator and cut-off. Fluid	W. D. Thomas	365,712	June 28	2217	578	39	1531
Pressure-regulator. Automatic	G. Schmidt and J. Christ	369,474	Sept. 6	222	62	40	1075
Pressure regulator. Fluid	A. Convert	366,995	July 19	1695	456	40	336
Pressure regulator. Fluid	H. C. Johnson	370,791	Oct. 4	57	14	41	13
Pressure regulator. Fluid	W. B. Mason	361,771	Apr. 26	1978	516	39	391
Pressure regulator. Fluid	W. B. Mason	367,536	Aug. 2	261	74	40	501
Pressure-regulator for water-supply mains	D. C. Cregier	359,315	Mar. 15	1275	330	38	1153
Pressure regulator. Steam	R. E. Gaines	367,385	Aug. 2	38	11	40	458
Pressure regulator. Steam	J. P. Stabler	357,422	Feb. 8	974	256	38	611
Pressure regulators. Diaphragm for fluid	T. McSweeney	370,152	Sept. 20	1218	323	40	1279
Pressure signal. High	E. Brouillet	362,420	May 3	489	138	39	570
Pressures. Apparatus for controlling low	M. W. Grovesteen	359,673	Mar. 22	1839	{ 467 468 }	{ 38 38 }	{ 1273 1273 }
Price-list. Feed-dealer's calculated	S. A. Greenlee	357,663	Feb. 15	1347	355	38	690
Primary battery	M. Bailey and J. Warner	371,244	Oct. 11	722	185	41	150
Primary battery	S. W. Maquay	368,099	Aug. 9	1103	{ 292 293 }	{ 40 40 }	{ 669 669 }
Primer. Electrical	G. Stuart	372,046	Oct. 25	1889	{ 487 488 }	{ 41 41 }	{ 395 395 }
Printed matter. Device for classifying clippings of	H. C. Kirk	365,386	June 28	1735	{ 448 449 }	{ 39 39 }	{ 1440 1440 }
Printer's blanket	H. C. Pfeil	364,287	June 7	114	33	39	1111
Printer's block	J. A. Burke	356,866	Feb. 1	175	46	38	454
Printer's chase	H. Megorden	362,301	May 3	319	88	39	535
Printer's chase	M. Protshko	368,234	Aug. 16	1310	346	40	715
Printers' furniture	J. O'Hare	371,274	Oct. 11	765	196	41	158
Printer's gage	W. B. Keighton	355,537	Jan. 4	315	84	38	63
Printer's galley	L. Baeker	374,109	Nov. 29	2736	734	41	1022
Printer's galley	W. W. Gilman	359,208	Mar. 8	1126	293	38	1118
Printer's galley	S. W. Rathbun and D. R. Kinley	367,446	Aug. 2	120	34	40	474
Printers' galleys. Lock-up for	E. M. Grover	356,532	Jan. 25	1763	459	38	359
Printers' inking-rollers. Composition for application to the surface of	A. Worthage	358,797	Mar. 1	551	.....	38	1006
Printer's quoin	J. Lachler	363,471	May 24	1981	516	39	869
Printer's quoin	W. H. Wright	360,501	Apr. 5	151	38	39	29
Printing	C. T. Moore	362,987	May 17	1310	347	39	730
Printing	M. D. Wilkins	369,575	Sept. 6	360	100	40	1103
Printing and adding machine. Check	W. Koch	367,213	July 26	1996	{ 540 541 }	{ 40 40 }	{ 402 402 }
Printing and adding machine. Check	W. Koch	367,345	July 26	2204	{ 592 593 174 175 176 177 178 }	{ 40 40 41 41 41 41 41 }	{ 440 440 602 602 602 602 602 }
Printing and delivery apparatus. Web	S. D. Tucker	372,721	Nov. 8	641	{ 306 307 308 508 509 }	{ 38 38 38 40 40 }	{ 648 648 648 378 378 }
Printing and delivery mechanism. Web	L. C. Crowell	357,551	Feb. 8	1169	{ 307 308 508 509 }	{ 38 38 40 40 }	{ 648 648 378 378 }
Printing and delivery mechanism. Web	S. D. Tucker	367,123	July 26	1875	{ 508 509 }	{ 40 40 }	{ 378 378 }
Printing and stamping press	W. N. Wheless	357,801	Feb. 15	1553	404	38	728
Printing apparatus	J. Jacobson	373,236	Nov. 15	1456	{ 383 384 }	{ 41 41 }	{ 756 756 }
Printing apparatus. Chromatic	F. H. Wheelan and A. Schurch	360,185	Mar. 29	2681	677	38	1433
Printing-block	J. R. Cummings	369,632	Sept. 6	445	124	40	1119
Printing-block. Metallic	J. M. Hawkes	369,521	Sept. 6	282	78	40	1088
Printing block. Polychromatic	W. G. White	375,433	Dec. 27	1802	.....	41	1421
Printing blocks or types. Manufacture of	E. D. Laraway and E. Bridge	355,327	Jan. 4	51	14	38	11
Printing boxes. Machine for	J. H. Swift	368,253	Aug. 16	1339	353	40	721
Printing bronze on plush	A. Finger and W. Menzel	363,131	May 17	1511	.....	39	770
Printing designs on paper to be applied to earthenware, &c. Machine for	W. H. Turner	374,644	Dec. 13	684	180	41	1189
Printing device	A. Shedlock	369,886	Sept. 13	807	215	40	1196
Printing frames. Folding rack for solar	J. Strachan	366,134	July 5	523	141	40	99
Printing in colors	T. D. Worrall	366,751	July 19	1383	.....	40	278
Printing-machine	P. F. Auguste-Godechaux	373,733	Nov. 22	2195	587	41	910
Printing-machine	J. L. Firm	366,388	July 12	869	233	40	172
Printing-machine	J. C. Fowler and E. A. Henkle	373,353	Nov. 15	1624	{ 428 429 430 }	{ 41 41 41 }	{ 787 787 787 }
Printing-machine	J. C. Fowler and E. A. Henkle	373,354	Nov. 15	1629	{ 430 431 }	{ 41 41 }	{ 788 788 }

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Printing-machine	J. C. Fowler and E. A. Henkle.....	373,355	Nov. 15	1631	{ 431 432	{ 41	788
Printing-machine	J. C. Fowler and E. A. Henkle.....	373,356	Nov. 15	1637	{ 432 433 434	{ 41	789
Printing-machine	J. T. King	361,423	Apr. 19	1482	{ 382 383	{ 39	291
Printing-machine	O. B. Reynolds	364,671	June 14	645	{ 173 174	{ 39	1217
Printing-machine	F. Wuelſing	373,119	Nov. 15	1264	335	41	722
Printing-machine. Alberttype-	J. T. Hawkins	358,661	Mar. 1	357	85	38	970
Printing-machine. Box-	J. Casy	363,986	May 31	2738	710	39	1019
Printing-machine. Chromatic-	F. C. Barker	373,426	Nov. 22	1742	{ 461 462	{ 41	821
Printing-machine. Chromatic-	D. S. Clark and W. C. Wendt�	367,024	July 26	1732	{ 466 467	{ 40	352
Printing-machine. Chromatic-	C. B. Cottrell	365,581	June 28	2029	{ 529 530	{ 39	1497
Printing-machine. Chromatic-	B. Huber	368,338	Aug. 16	1450	385	40	744
Printing-machine. Chromatic-	B. Huber	368,532	Aug. 16	1730	460	40	797
Printing-machine. Chromatic-	F. H. Ludington	365,313	June 21	1607	419	39	1403
Printing-machine. Color-	D. E. Kempster	361,703	Apr. 26	1883	{ 487 488	{ 39	375
Printing-machine. Color-	C. R. Taylor	372,777	Nov. 8	742	201	41	618
Printing-machine. Cylinder-	B. F. De Costa, E. Childs, and F. D. Witherell	367,795	Aug. 9	676	183	40	587
Printing-machine. Cylinder-	H. B. Denny	364,223	June 7	32	{ 9 10 11	{ 39	1094
Printing-machine delivery apparatus	E. Nordblom	364,625	June 7	582	{ 156 157	{ 39	1197
Printing-machine delivery mechanism	A. J. Beckler	363,883	May 31	2574	669	39	989
Printing-machine. Duplex oscillating	O. B. Reynolds	362,998	May 17	1322	{ 351 352	{ 39	732
Printing-machine. Oil-cloth-	H. A. Boucher	364,890	June 14	988	{ 260 261	{ 39	1280
Printing-machine. Oscillating-cylinder	J. T. Hawkins	359,442	Mar. 15	1467	{ 375 376	{ 38	1188
Printing-machine. Perfecting	J. T. Hawkins	357,927	Feb. 15	1715	{ 448 449	{ 38	759
Printing-machine. Perfecting	R. M. Hunter	369,792	Sept. 13	654	178	40	1167
Printing-machine. Perfecting color-	W. H. R. Toye	364,976	June 14	1114	291	39	1303
Printing-machine. Perfecting cylinder-	B. Huber	370,789	Oct. 4	53	13, 14	41	13
Printing-machine. Plate-	S. F. Millard	359,513	Mar. 15	1576	{ 404 405	{ 38	1208
Printing-machine. Plate-	J. Milligan	360,716	Apr. 5	456	116	39	85
Printing-machine. Platen	J. G. Sehorn	369,081	Aug. 30	2518	668	40	966
Printing-machine. Reciprocating	T. H. Cole	370,245	Sept. 20	1342	358	40	1302
Printing-machine. Rotary	J. L. Firm	374,355	Dec. 6	268	71, 72	41	1097
Printing-machine. Rotary	C. Kahler	373,023	Nov. 8	1118	{ 297 298 299	{ 41	684
Printing-machine. Rotary	W. Scott	372,712	Nov. 8	629	{ 171 172	{ 41	599
Printing-machine. Rotary	W. Scott	373,487	Nov. 22	1834	489	41	840
Printing-machine. Rotary gripper platen	A. Godfrey	374,869	Dec. 13	999	{ 261 262	{ 41	1250
Printing-machine sheet-delivery	J. Walther	371,721	Oct. 18	1402	362	41	294
Printing-machine. Stencil-	C. N. Jones	370,947	Oct. 4	310	76, 77	41	62
Printing-machine. Stop-cylinder	J. R. McDonald	358,051	Feb. 22	1899	502	38	798
Printing-machine. Two-feed single-cylinder	G. Newsum	361,538	Apr. 19	1627	{ 421 422	{ 39	320
Printing-machine. Zincographic-	J. F. Scherber	362,320	May 3	345	95	39	541
Printing-machines. Adjusting the air-spring plungers of	C. B. Cottrell	355,865	Jan. 11	801	210	38	163
Printing-machines. Cushioning device for	C. Potter, Jr	358,568	Mar. 1	235	54	38	947
Printing-machines. Delivery mechanism for cylinder	C. H. Campbell	361,262	Apr. 19	1262	322	39	251
Printing-machines. Detachable gripper for	J. T. Hawkins	359,864	Mar. 22	2150	542	38	1328
Printing-machines. Feed-guide for	J. T. Hawkins	365,127	June 21	1351	358	39	1355
Printing-machines. Fly-holding device for stop-cylinder	D. J. Hallaran	359,074	Mar. 8	951	243	38	1085
Printing-machines. Gripper mechanism for stop-cylinder	C. B. Cottrell	358,962	Mar. 8	805	{ 203 204	{ 38	1058
Printing-machines. Ink-fountain for	J. K. Bittenbender	355,965	Jan. 11	963	252	38	195
Printing-machines. Ink-fountain for	E. Jaek	367,526	Aug. 2	252	71	40	499
Printing-machines. Ink-fountain for chromatic-	J. Nuebling	358,473	Mar. 1	74	19	38	917
Printing-machines. Ink-roller adjustment for	F. L. and S. G. Goss	363,327	May 17	1772	464	39	820
Printing-machines. Inking apparatus for	G. P. Ferner	372,214	Oct. 25	2144	550	41	442
Printing-machines. Inking apparatus for	B. Huber and W. K. Hodgman	368,339	Aug. 16	1452	385	40	744
Printing-machines. Inking apparatus for	J. J. Hughes	371,323	Oct. 11	833	{ 213 214	{ 41	171
Printing-machines. Inking apparatus for	A. Overend	363,760	May 24	2403	624	39	951
Printing-machines. Means for dissipating electricity for	L. E. Bathrick	368,315	Aug. 16	1420	376	40	738
Printing-machines. Receiving-table for	C. B. Cottrell	369,777	Sept. 13	633	171	40	1163
Printing-machines. Registering mechanism for	R. Miehle	363,409	May 24	1878	{ 493 494 495	{ 39	850
Printing-machines. Safety stopping and starting mechanism for	W. Scott	361,786	Apr. 26	2003	521	39	396
Printing-machines. Securing curved form-plates in rotary	J. T. Hawkins	361,821	Apr. 26	2048	533	39	405
Printing-machines. Sheet delivery and folding mechanism for	W. Scott	361,376	Apr. 19	1419	{ 366 367	{ 39	280

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Printing-machines. Sheet-delivery apparatus for...	G. P. Fenner	374,465	Dec. 6	423	{ 110	} 41	1127
Printing-machines. Sheet-delivery apparatus for...	W. Scott	361,028	Apr. 12	915	232		174
Printing-machines. Sheet-delivery apparatus for cyl- inder	S. D. Tucker	365,952	July 5	283	74.75	40	54
Printing-machines. Sheet-delivery for	F. L. and S. G. Goss	363,328	May 17	1774	465	39	821
Printing-machines. Tripping mechanism for cyl- inder	R. Miehl	365,931	July 5	250	66	40	49
Printing-machines. Type-bed for	E. König	361,224	Apr. 12	1215	309	39	230
Printing-machines. Web-feeding mechanism for	L. C. Crowell	365,051	June 21	1229	{ 324	} 39	1334
Printing of cigar-tags. Machine for the	O. L. Parmenter	367,117	July 26	1867	505		377
Printing oil-cloth and other fabrics. Machine for...	G. W. Williams	367,351	July 26	2216	595	40	442
Printing oil-cloth. Machine for	G. A. E. Burnside	368,751	Aug. 23	2039	540	40	865
Printing oil-cloth, &c. Machine for	G. Davison, Jr.	369,925	Sept. 13	870	{ 229	} 40	1207
					230		
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Printing on boards. Machine for	F. X. Hooper and W. Hollingsworth ..	359,972	Mar. 22	2320	{ 583	} 38	1360
Printing-plates. Manufacturing	T. J. Bicksler	369,580	Sept. 6	367	584		
Printing-plates upon cylindrical surfaces. Fasten- ing for	J. A. Dear	368,757	Aug. 23	2050	102	40	1104
Printing-press	C. E. Clement	356,867	Feb. 1	177	{ 542	} 40	867
					543		
Printing-press	J. F. W. Dorman	373,649	Nov. 22	2084	47.48	38	455
Printing-press	T. E. Mann	355,407	Jan. 4	153	{ 556	} 41	887
Printing-press	W. H. Price, Jr	361,236	Apr. 12	1230	557		
					40	38	31
Printing-press	J. Thomson	372,993	Nov. 8	1066	313	39	233
					{ 284	} 41	676
					285		
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Printing-press	H. H. Thorp	359,189	Mar. 8	1093	{ 284	} 38	1112
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Printing-press throw-off	H. Swain	373,421	Nov. 15	1733	457	41	807
Printing-presses. Automatic feed for	J. A. Wetmore	359,752	Mar. 22	1964	498	38	1295
Printing-presses. Automatic perforator for	G. and R. Kennedy	364,021	May 31	2783	721	39	1029
Printing-presses. Chase-hook for	W. H. Price, Jr	361,237	Apr. 12	1231	313	39	234
Printing-presses. Device for jogging or evening sheets of paper on fly-tables of	T. Hannigan	365,004	June 14	1156	303	39	1310
Printing-presses. Feed-governor for	J. L. Cox	370,321	Sept. 20	1446	388	40	1322
Printing-presses. Flier for	J. F. Johnson and G. A. Clemeson ..	374,071	Nov. 29	2680	720	41	1010
Printing-presses. Gripper mechanism for job- bing	F. Van Wyck	368,258	Aug. 16	1347	355	40	723
Printing-presses. Ink-distributing apparatus for...	M. Gally	356,828	Feb. 1	114	32	38	444
Printing-presses. Ink-fountain for	D. S. Clark	375,126	Dec. 20	1400	364	41	1332
Printing-presses. Numbering-head for	J. G. Sauer	374,708	Dec. 13	771	{ 202	} 41	1207
					203		
Printing-presses. Paper-folding attachment for...	T. C. Dexter	369,780	Sept. 13	636	172	40	1164
Printing-presses. Positive bridge-action for platen	J. Thomson	367,867	Aug. 9	770	208	40	606
Printing-presses. Sheet-piling attachment for...	C. Haffner	372,410	Nov. 1	187	52	41	505
Printing-presses. Sheet-piling attachment for...	C. E. Holbrook	360,439	Apr. 5	63	16	39	13
Printing-presses with folding-machines. Device for connecting	J. H. Stonemetz	355,352	Jan. 4	85	23	38	18
Printing-shell	O. J. Smith	365,352	June 21	1669	436	39	1416
Printing-surface	W. W. Evans	374,048	Nov. 29	2648	710	41	1004
Printing web fabrics. Process of and machine for...	J. Macnab	364,029	May 31	2795	724	39	1031
Prints. Producing blue	J. C. Elder	368,656	Aug. 23	1892	504	40	837
Projectile	A. Bossard	361,920	Apr. 26	2197	570	39	432
Projectile	J. G. Butler	373,387	Nov. 15	1680	446	41	799
Projectile	D. Kennedy	371,461	Oct. 11	1025	267	41	208
Projectile	J. McCreary	369,459	Sept. 6	205	58	40	1071
Projectile. Explosive	A. C. Koerner	374,874	Dec. 13	1008	263	41	1251
Projectile. Explosive	C. G. Otis	356,396	Jan. 18	1573	414	38	316
Projectile. Explosive	C. C. Palmer	375,190	Dec. 20	1482	388	41	1351
Projectile. Rolled conical	G. F. Simonds	358,627	Mar. 1	310	74	38	961
Projectiles. Apparatus for manufacturing	H. M. Quackenbush ..	358,984	Mar. 8	839	212	38	1063
Projectiles. Machine for rolling	C. Fairbairn	365,980	July 5	318	84	40	60
Projecting camera	D. A. Cooper and W. H. Lewis ..	371,252	Oct. 11	735	188	41	152
Prop. Top	W. R. Moore	372,556	Nov. 1	403	108	41	547
Propeller. Child's	F. Snyder	363,011	May 17	1345	355	39	737
Propeller for boats. Portable electric	G. Trouvé	368,796	Aug. 23	2101	556	40	876
Propeller for ships, &c	P. and K. Kaul	368,534	Aug. 16	1736	462	40	798
Propeller for vessels. Auxiliary	N. H. Borgfeldt	367,499	Aug. 2	216	62	40	493
Propeller. Screw	A. Desgoiffe and L. De Georges ..	359,140	Mar. 8	1037	269	38	1102
Propeller. Screw	C. D. Mosher	368,416	Aug. 16	1558	416	40	765
Propeller. Screw	J. Sherman	359,103	Mar. 8	996	256	38	1094
Propeller. Screw	W. J. Steves and A. J. Hill	370,567	Sept. 27	1822	485	40	1398
Propeller. Screw	A. Vogelsang	360,833	Apr. 5	617	{ 162	} 39	116
					163		
					164		
Propeller shaft. Screw	I. E. Clifford	373,339	Nov. 15	1599	422	41	783
Propeller-shafts. Stern-bearing for	J. J. Townsend	359,298	Mar. 15	1252	325	38	1148
Propeller-shafts. Stern-tube bushing for	J. Menzies	370,802	Oct. 4	71	18	41	16
Propeller. Ship's	J. S. B. Anderson	366,550	July 12	1079	{ 292	} 40	214
					293		
Propeller. Wind	M. S. Fahey	372,368	Nov. 1	127	38	41	494
Propelling and steering apparatus for vessels...	C. C. L. Lucht	366,849	July 19	1515	{ 405	} 40	302
					406		
Propelling and steering boats. Machinery for...	S. E. Harthan	366,662	July 19	1254	335	40	255
Propelling and steering vessels	J. F. Sargent	361,549	Apr. 19	1641	426	39	323
Propelling and steering vessels. Means for...	J. Merlette, Sr	374,985	Dec. 20	1196	311	41	1295
Propelling apparatus for vessels	C. A. Smith	358,170	Feb. 22	2075	546	38	829
Propelling apparatus for vessels	H. B. Williams	367,125	July 26	1883	510	40	379
Propelling vessels	W. Archer	359,952	Mar. 22	2282	573	38	1353
Propelling vessels	S. T. McDougall	368,678	Aug. 23	1930	513	40	845
Propelling vessels by air or gas. Apparatus for...	P. Haenlein	374,247	Dec. 6	109	27	41	1067

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Propelling vessels. Mechanism for.....	G. C. Baker	358,425	Mar. 1	3	1	38	903
Propelling vessels. Mechanism for.....	T. J. Simpson.....	373,492	Nov. 22	1841	490	41	841
Propelling-wheel for vessels.....	D. G. Haskins	362,508	May 10	618	174	39	598
Propulsion. Marine.....	W. P. Thornburgh.....	362,556	May 10	683	191	39	609
Propulsion of vessels	J. H. Kates.....	363,244	May 17	1657	435	39	799
Prospecting or boring tube.....	A. Ball	374,817	Dec. 13	926	242	41	1237
Protector:							
See Bedding-protector. Glove-protector.							
Body-protector. Hand-protector.							
Bottle and label pro- Hat-protector.							
jector. Heel and sole protector.							
Calender-protector. Heel and toe protector.							
Can-protector. Knee-protector.							
Can vent-protector. Mattress-protector.							
Cigar-protector. Mosquito and fly protec-							
Cigar-tip protector. tor.							
Coffin-protector. Nose-protector.							
Corset and dress pro- Pantaloon-protector.							
jector. Pile-protector.							
Ear-protector. Plant and tree protector.							
Ear and mouth pro- Pocket-protector.							
jector. Railway-joint protector.							
Ear and neck pro- Rein-protector.							
jector. Skirt and stocking pro-							
Electric-instrument tector							
protector. Sleeve-protector.							
Em bankment-pro- Telegraph-pole protector.							
jector. Tree-protector.							
Furniture wall-pro- Trunk-corner protector.							
jector. Vehicle line-protector.							
Garment-protector. Watch-protector.							
Protractor	A. J. Shaw	367,673	Aug. 2	478	132	40	541
Provision or lunch bag	N. J. Hallberg.....	370,866	Oct. 4	171	45	41	34
Pruning-hook	J. M. King	370,704	Sept. 27	2032	541	40	1438
Pruning implement	R. B. Holden	358,665	Mar. 1	367	87	38	971
Pruning-shears	J. L. Dufrane.....	356,278	Jan. 18	1402	370	38	283
Pruning-shears	J. T. Henry	371,756	Oct. 18	1449	374	41	303
Pruning-shears	J. Jett	362,383	May 3	435	120	39	559
Pruning-shears	J. N. Parker.....	369,205	Aug. 30	2667	709	40	997
Pruning-shears	G. R. Pierce.....	367,843	Aug. 9	740	199	40	601
Puddling and heating furnace.....	T. F. Hemmick.....	371,454	Oct. 11	1013	264	41	206
Puddling-furnace. Revolving	S. T. Wellman and G. W. Goetz.....	358,763	Mar. 1	500	123	38	996
Pug-mill	D. Peters	375,568	Dec. 27	1986	517	41	1456
Puller:							
See Beet-puller. Sprout-puller.							
Cork-puller. Stump-puller.							
Spike-puller. Tree-puller.							
Pulley	A. Betteley.....	360,989	Apr. 12	860	218	39	163
Pulley	G. Campbell.....	362,569	May 10	702	196	39	612
Pulley	G. T. Eames.....	375,415	Dec. 27	1778	465	41	1416
Pulley	J. R. Fletcher	360,675	Apr. 5	398	101	39	75
Pulley	W. R. Johns.....	370,017	Sept. 13	1018	269	40	1234
Pulley	J. Lathrop and A. Tyrrell	367,784	Aug. 9	944	255	40	639
Pulley	R. Osterhorn.....	359,938	Mar. 22	2261	569	38	1349
Pulley	B. F. Radford.....	355,555	Jan. 4	340	91	38	68
Pulley	C. H. Willcox and S. Borton.....	373,790	Nov. 22	2275	610	41	923
Pulley. Belt.....	H. W. Beldsmeier	355,294	Jan. 4	4	1	38	3
Pulley. Belt.....	W. N. Wilkinson	364,878	June 14	974	256	39	1277
Pulley-block	J. Swalwell and J. Moore.....	357,641	Feb. 15	1314	346	38	685
Pulley-block hook	T. Barber	264,079	May 31	2855	741	39	1043
Pulley-blocks. Anti-friction bearing for	T. R. Ferrall	358,028	Feb. 22	1857	491	38	790
Pulley. Depression.....	W. Dunham	364,400	June 7	263	74	39	1139
Pulley. Expansion.....	B. J. Riley	370,087	Sept. 20	1117	296	40	1260
Pulley. Friction-clutch.....	J. E. Hunter.....	361,629	Apr. 19	1774	459	39	348
Pulley. Grooved	E. P. Benville	361,573	Apr. 19	1686	435	39	330
Pulley-hoister	J. W. and J. W. Provan.....	367,443	Aug. 2	114	33	40	473
Pulley. Loose	A. L. Cushman	371,490	Oct. 11	1057	275	41	215
Pulley-lubricator.....	S. A. Morse	373,940	Nov. 29	2489	668	41	973
Pulley-rims. Tool for turning the faces of.....	G. Phillion	368,851	Aug. 23	2181	578	40	892
Pulley. Self-oiling loose.....	E. S. Sutton	355,666	Jan. 4	503	133	38	98
Pulley. Separable	H. J. Gilbert	368,468	Aug. 16	1644	438	40	781
Pulley-sheave	F. B. Torrey.....	356,670	Jan. 25	1962	515	38	398
Pulley. Split.....	H. Baute	360,645	Apr. 5	359	90	39	68
Pulley. Split.....	W. R. Fee	367,509	Aug. 2	229	66	40	495
Pulley. Split.....	W. A. Moore	374,421	Dec. 6	353	92	41	1113
Pulley. Wooden	C. D. Casada and R. A. Henderson.....	369,586	Sept. 6	374	104	40	1106
Pulley. Wooden	W. H. Dodge	368,820	Aug. 23	2135	566	40	883
Pulley. Wooden	I. V. Roy	370,495	Sept. 27	1721	457	40	1380
Pulleys. Frame for sash.....	D. C. Lyon	369,648	Sept. 6	467	131	40	1124
Pulleys. Manufacture of wooden.....	G. Phillion	368,490	Aug. 16	1676	446	40	787
Pulleys. Removable bushing for	H. W. Hill	374,833	Dec. 13	949	248	41	1241
Pulleys. Shaft-bushing for loose	H. C. Crowell	372,521	Nov. 1	342	94	41	535
Pulleys to different-sized shafts. Device for remov-	W. A. McNair.....	362,767	May 10	1010	274	39	668
ably attaching							
Pulleys to shafts. Device for securing	F. Rochow	361,323	Apr. 19	1343	346	39	266
Pulleys to shafts. Securing	C. C. Smalley	357,238	Feb. 8	729	189	38	565
Pulp-beating engine.....	B. B. Tobie	364,687	June 14	669	179	39	1223
Pulp. Digester for wood	C. F. Logan	361,015	Apr. 12	898	227	39	170
Pulp-engine	W. W. D. Jeffers	371,460	Oct. 11	1023	266	41	208
Pulp-engines. Beater-roll for.....	J. Hoyt	372,978	Nov. 8	1047	280		
Pulp for the manufacture of refrigerators and mak-	C. B. Gardner	374,183	Dec. 6	29	7	41	1052
ing the same. Wood							
Pulp-grinding machine.....	O. A. Byrns	361,207	Apr. 12	1186	300	39	224

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Pulp-machine	C. B. Gardner	374,182	Dec. 6	28	7	41	1052
Pulp. Machine for forming hollow articles of	N. P. Hanson	365,743	June 28	2268	590	39	1541
Pulp machine. Wood	W. Curtis	367,504	Aug. 2	222	64	40	494
Pulp-mill	H. P. Cheney	358,593	Mar. 1	272	63	38	953
Pulp or fibrous material and the resulting material. Treating	F. E. Keyes	369,862	Sept. 13	764		40	1188
Pulp or fibrous material and the resulting material. Treating	F. F. Phillips	355,789	Jan. 11	693	180	38	143
Pulp. Process of and apparatus for cooking wood	C. Cornwell	357,371	Feb. 8	898	237	38	597
Pulp-screen clearer	F. A. Cloudman	356,926	Feb. 1	253	70	38	468
Pulp-strainer	J. and R. Wood	361,107	Apr. 12	1023	258	39	195
Pulp. Sulphite solution for wood	C. A. Catlin	366,153	July 5	545		40	103
Pulpware. Machine for the manufacture of	H. Fairbanks	364,096	May 31	2879	747	39	1048
Pulverizer	S. Frase and J. H. Cameron	364,239	June 7	55	16	39	1099
Pulverizer	C. La Dow	375,364	Dec. 27	1710	449	41	1403
Pulverizer	C. La Dow	375,365	Dec. 27	1712	449	41	1403
Pulverizer	P. B. Mathiason	370,880	Oct. 4	191	50	41	38
Pulverizer and cornstalk-cutter. Combined	D. Johnson	373,370	Nov. 15	1659	441	41	794
Pulverizer. Clay	G. C. Pratt	359,630	Mar. 22	1782	454	38	1262
Pulverizer. Combined	J. M. Bailey	362,241	May 3	249	71	39	521
Pulverizer. Sod-	A. H. Ristvedt	366,879	July 19	1551	415	40	310
Pulverizer. Soil-	R. B. Lillie	355,405	Jan. 4	150	39		
Pulverizing lumpy ground. Implement for	G. Staples	373,157	Nov. 15	1327	352	41	733
Pulverizing-machine	W. M. Fuller	365,510	June 28	1915	498	39	1475
Pulverizing-machine	F. Payne	358,294	Feb. 22	2243	592		
Pulverizing-machine	J. B. Waring	357,434	Feb. 8	987	260	38	614
Pulverizing-machines. Feeder for	J. B. Waring	357,435	Feb. 8	991	261	38	614
Pump	R. H. Aldrich	374,332	Dec. 6	230	61	41	1089
Pump	M. M. Appleman	365,500	June 28	1890	492	39	1469
Pump	L. L. Bettys	359,764	Mar. 22	1987	503	38	1299
Pump	H. G. Bott	366,072	July 5	441	120	40	83
Pump	W. W. Cully	356,750	Feb. 1	14	5	38	425
Pump	R. F. Dobson	360,668	Apr. 5	391	99	39	74
Pump	H. A. French	362,947	May 17	1251	332	39	719
Pump	J. H. Frenier	367,803	Aug. 9	687	186	40	589
Pump	S. Gil	356,997	Feb. 1	354	94	38	488
Pump	J. W. Hyatt	369,289	Aug. 30	2779	741	40	1019
Pump	W. Kegler	362,282	May 3	297	82	39	531
Pump	S. W. Martin	365,835	July 5	105	29	40	22
Pump	H. A. Noble	370,556	Sept. 27	1809	481	40	1396
Pump	D. J. Nysewander	359,516	Mar. 15	1587	407	38	1210
Pump	O. F. Payne and J. C. Krisher	373,903	Nov. 29	2446	656	41	964
Pump	N. Perkins	374,995	Dec. 20	1209	314	41	1297
Pump	G. S. Putnam	358,570	Mar. 1	237	55	38	947
Pump	J. Raab	363,677	May 24	2279	591	39	927
Pump	J. Schrankel	368,016	Aug. 9	992	267	40	648
Pump	I. J. Sehorne	375,202	Dec. 20	1497	393	41	1353
Pump	D. Stoner	370,428	Sept. 27	1614	430	40	1361
Pump	M. D. Temple	365,951	July 5	282	74	40	54
Pump	B. C. Vanduzen	364,739	June 14	744	198	39	1237
Pump	B. C. Vanduzen	375,027	Dec. 20	1252	327	41	1305
Pump	D. L. Volker	370,666	Sept. 27	1972	522	40	1427
Pump	J. A. Wade and J. Cherry	367,564	Aug. 2	302	87	40	509
Pump	A. Warth	364,068	May 31	2842	737	39	1041
Pump. Air-	H. L. Brown	360,413	Apr. 5	15	4		
Pump. Air-	H. A. Fleuss	363,622	May 24	2207	571	39	914
Pump and scraper. Oil-well	O. J. Baldwin	355,675	Jan. 11	521	137		
Pump and valve	A. F. Fletcher	367,139	July 26	1902	514	40	383
Pump attachment for gaseous liquids	T. H. Butler	371,488	Oct. 11	1055	275	41	214
Pump. Bilge-water	A. Cook	373,725	Nov. 22	2186	584	41	908
Pump-boring machine	N. Oley	356,848	Feb. 1	148	40	38	450
Pump. Breast-	A. B. Tutton	361,910	Apr. 26	2185	566	39	430
Pump. Breast-	H. Van Altena and V. C. Vantwoud	356,266	Jan. 18	1379	365	38	280
Pump. Centrifugal	J. G. Bruggeman	370,042	Sept. 20	1058	280	40	1249
Pump. Centrifugal	E. J. Hawley	367,911	Aug. 9	837	225	40	619
Pump. Centrifugal	I. P. Lambing	367,919	Aug. 9	848	229	40	621
Pump. Centrifugal	J. Richards	359,096	Mar. 8	979	251	38	1091
Pump. Centrifugal	J. Richards	359,097	Mar. 8	982	251	38	1091
Pump. Chain-	T. Wortman	362,695	May 10	895	244	39	647
Pump. Deep-well	A. E. Clark	359,668	Mar. 22	1832	465	38	1272
Pump. Double-acting	J. K. Van Pelt	362,681	May 10	876	238	39	643
Pump. Double-acting	E. Wilcoxon	358,909	Mar. 8	737	183	38	1044
Pump. Double-acting force-	L. C. Farmer	374,400	Dec. 6	324	85	41	1107
Pump. Double-acting force-	A. Potter and C. H. Betts	371,518	Oct. 11	1104	287	41	224
Pump-excavator	M. F. Brainard	363,202	May 17	1608	422		
Pump exhausting apparatus. Mercurial-	W. Maxwell and T. V. Hughes	361,174	Apr. 12	1136	287	39	216
Pump for emptying cans	H. L. Hauser	364,819	June 14	889	234	39	1261
Pump for producing high vacua	E. Thomson	358,131	Feb. 22	2022	531	38	819
Pump. Force-	R. Bean	359,419	Mar. 15	1439	367	38	1183
Pump. Force-	R. Bean	372,888	Nov. 8	916	247	41	648
Pump. Force-	M. S. Brewer	363,721	May 24	2352	610	39	941
Pump. Force-	T. C. Fawcett	362,263	May 3	273	76	39	526
Pump. Force-	H. Q. Hood	373,367	Nov. 15	1654	439	41	793
Pump. Force-	D. Johnson	371,197	Oct. 11	659	168		
Pump. Force-	E. B. Kendig and D. N. Landis, Jr.	363,897	May 31	2593	674	39	992
Pump. Force-	B. S. Raybuck	371,972	Oct. 25	1773	460	41	376
Pump-head	J. Q. Adams	357,750	Feb. 15	1482	389	38	715
Pump-jack	E. J. Oliver	372,274	Oct. 25	2228	571	41	459

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Pump. Lubricating.....	F. Keating.....	364,258	June 7	78	22	39	1103
Pump. Measuring.....	A. P. and W. L. Fifield.....	370,613	Sept. 27	1900	505	40	1413
Pump. Measuring.....	D. L. Matthews.....	359,023	Mar. 8	891	227	38	1073
Pump. Measuring.....	L. D. and P. W. Miller.....	358,162	Feb. 22	2062	543	38	827
Pump. Measuring lift.....	L. D. and P. W. Miller.....	357,285	Feb. 8	789	205	38	576
Pump. Measuring lift.....	L. D. and P. W. Miller.....	363,840	May 31	2520	{ 654 } 655	39	979
Pump-motor.....	W. Christie.....	366,203	July 12	618	169	40	125
Pump-motor.....	W. W. Ward.....	371,009	Oct. 4	406	101	41	81
Pump, motor, blower, or exhaustor. Rotary.....	F. T. Adams.....	374,331	Dec. 6	229	61	41	1089
Pump motor. Railway.....	W. Tiffany.....	375,024	Dec. 20	1250	327	41	1305
Pump-motor support.....	A. C. T. Prange.....	366,686	July 19	1292	{ 345 } 346	40	262
Pump-motors. Stop mechanism for.....	C. Saunders.....	360,250	Mar. 29	2774	704	38	1450
Pump. Oil.....	S. J. Eginton.....	364,232	June 7	47	15	39	1097
Pump-operating apparatus.....	P. P. Findlay and A. McInnis.....	363,617	May 24	2199	570	39	912
Pump or compressor. Automatic air.....	G. J. Keenan.....	363,395	May 24	1861	489	39	846
Pump or ram. Hydraulic mining.....	A. E. Watkins.....	355,669	Jan. 4	506	134	38	99
Pump. Plumber's force.....	J. H. Lawless.....	357,717	Feb. 15	1125	375	38	705
Pump-regulating device.....	F. M. Wheeler.....	360,071	Mar. 29	2494	633	38	1399
Pump. Rotary.....	J. M. Allen.....	360,841	Apr. 12	630	167	39	125
Pump. Rotary.....	C. H. Cary.....	374,731	Dec. 13	802	211	41	1212
Pump. Rotary.....	F. B. Deming.....	367,374	Aug. 2	26	7	40	456
Pump. Rotary.....	R. L. Frost.....	363,739	May 24	2373	{ 616 } 617	39	945
Pump. Rotary exhaust.....	W. Maxwell.....	364,532	June 7	474	128	39	1176
Pump. Rotary exhaust.....	W. Maxwell.....	364,533	June 7	475	128	39	1177
Pump. Sirup.....	G. W. Bennett and L. Gompfer.....	366,368	July 12	845	227	40	167
Pump. Sirup.....	R. E. Huff.....	363,336	May 17	1786	468	39	823
Pump. Sirup and measuring.....	R. E. Huff.....	364,930	June 14	1047	{ 273 } 274	39	1290
Pump. Steam.....	J. Mayher.....	362,762	May 10	1002	272	39	656
Pump. Steam.....	J. Uhri.....	356,671	Jan. 25	1263	{ 515 } 516	38	398
Pump. Steam vacuum.....	G. H. Nye.....	360,781	Apr. 5	544	141	39	102
Pump. Submerged force.....	V. W. Beeson.....	372,953	Nov. 8	1007	271	41	664
Pump system. Centrifugal.....	I. P. Lambing.....	367,918	Aug. 9	846	229	40	621
Pump-valve.....	N. Pelletier.....	366,244	July 12	682	185	40	137
Pump-valve gear.....	J. F. Carpenter.....	368,648	Aug. 23	1883	502	40	835
Pump-valve gear.....	J. F. Carpenter.....	368,649	Aug. 23	1884	503	40	836
Pump-valves. Means for relieving.....	J. H. Pendleton.....	373,479	Nov. 22	1821	485	41	847
Pumps, &c. Air-chamber for.....	T. J. Rider.....	361,649	Apr. 19	1803	468	39	353
Pumps. Air-compressor for deep-well.....	J. R. Adams and J. J. Ryan.....	367,575	Aug. 2	321	92	40	513
Pumps. Air-injector for steam.....	E. I. Howard.....	367,524	Aug. 2	249	71	40	499
Pumps and air-compressors. Cylinder for air.....	H. B. Ford.....	363,453	May 24	1949	510	39	862
Pumps. Circulator and governor for.....	W. H. Brooks.....	367,088	July 26	1830	493	40	370
Pumps. Connecting-rod for oil.....	W. H. Wheeler.....	375,465	Dec. 27	1847	483	41	1430
Pumps. Feed-indicator for oil.....	T. W. Sheriffs.....	371,983	Oct. 25	1785	463	41	378
Pumps. Filter for the suction-pipes of.....	B. Revoir.....	362,314	May 3	340	94	39	540
Pumps. Forcing attachment for lift.....	J. Knopp.....	364,655	June 14	626	169	39	1214
Pumps. Gearing for operating windmill.....	J. E. Jordan.....	369,602	Sept. 6	397	110	40	1111
Pumps. Journal-box for rotary.....	B. F. Taber.....	357,797	Feb. 15	1547	403	38	727
Pumps. Means for relieving discharge-valves of double-acting.....	J. H. Pendleton.....	373,478	Nov. 22	1819	484	41	837
Pumps. Mechanism for actuating valves for steam.....	J. Mayher.....	358,286	Feb. 22	2234	589	38	861
Pumps. Motor attachment for centrifugal.....	B. W. Scott.....	356,264	Jan. 18	1377	364	38	279
Pumps. Motor for operating.....	F. E. Downey and J. M. Collier.....	369,634	Sept. 6	449	125	40	1120
Pumps. Plunger for deep-well.....	J. D. Howard.....	357,149	Feb. 1	603	155	38	532
Pumps. Plunger for oil-well.....	E. P. Landas.....	356,946	Feb. 1	278	77	38	472
Pumps. Stuffing-box for air and gas.....	H. B. Ford.....	363,456	May 24	1951	511	39	863
Pumps. Sucker-rod for.....	D. Jones.....	372,804	Nov. 8	798	213	41	627
Pumps. Valve for vacuum.....	C. Peterson.....	369,879	Sept. 13	796	213	40	1194
Pumps. Vent-stopper for.....	R. G. Johnston and G. A. Buffington.....	375,635	Dec. 27	2080	544	41	1474
Pumping and distributing semi-fluids or liquids holding solid matter in suspension.....	J. V. V. Booraem.....	357,363	Feb. 8	888	234	38	595
Pumping apparatus. Electrical.....	M. A. Michales and A. Michaels.....	358,053	Feb. 22	1902	503	38	799
Pumping apparatus. Electrical.....	F. J. Sprague.....	372,824	Nov. 8	823	220	41	632
Pumping-engine.....	C. W. Baldwin.....	368,442	Aug. 16	1597	{ 426 } 427	40	772
Pumping-engine.....	H. F. Gaskill.....	372,794	Nov. 8	765	{ 206 } 207	41	622
Pumping-engine.....	C. A. Hague.....	356,119	Jan. 18	1191	{ 315 } 316	38	244
Pumping-engines. Vertical compound balanced duplex.....	E. E. Clark.....	358,591	Mar. 1	269	62	38	953
Pumping or air-pressure apparatus. Beer.....	T. Dougherty.....	360,422	Apr. 5	28	8	39	7
Punch.....	M. Marcil.....	358,683	Mar. 1	392	94	38	976
Punch and register. Ticket.....	C. A. Kimpton and J. E. Crisp.....	374,973	Dec. 20	1179	{ 307 } 308	41	1293
Punch. Check.....	J. C. Lowdon.....	362,755	May 10	992	269	39	664
Punch. Conductor's time or transfer.....	S. Adler.....	362,240	May 3	247	70	39	521
Punch. Screw.....	J. Farrin.....	374,464	Dec. 6	422	110	41	1127
Punch. Ticket.....	J. F. Hanscom.....	357,000	Feb. 1	358	95	38	489
Punch. Ticket bell.....	J. M. Black.....	374,288	Dec. 6	160	42	41	1078
Punching and shearing machine. Combined.....	C. Crothers.....	368,571	Aug. 23	1785	475	40	817
Punching and shearing machine. Combined.....	N. J. Rice.....	365,490	June 28	1879	489	39	1467
Punching checks. Apparatus for.....	D. D. Gregory.....	355,764	Jan. 11	646	169	38	136
Punching checks. Machine for.....	J. T. Aldrich.....	367,691	Aug. 2	502	{ 138 } 139	40	545
Punching device.....	A. W. Payne.....	370,813	Oct. 4	83	22	41	18
Punching-machine.....	E. P. Baville.....	361,570	Apr. 19	1679	433	39	328
Punching-machine.....	A. Gay.....	369,597	Sept. 6	388	108	40	1109
Punching-machine.....	C. I. Litzenberger.....	371,772	Oct. 18	1473	381	41	308
Punching-machine.....	F. J. Slade.....	364,379	June 7	232	66	39	1133

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Punching-machine	E. W. Stewart	362,190	May 3	181	55	39	509
Punching-machine. Check-	H. H. Norrington	362,586	May 10	727	202	39	616
Punching-machine for fly-nets	J. W. Ringrose and D. A. Hauck	356,793	Feb. 1	71	20, 21	38	436
Punching-machine. Gang	F. Kohler	369,344	Sept. 6	52	15, 16	40	1044
Punching-machine. Metal	S. I. Snyder	363,917	May 31	2620	{ 680 681 }	{ 39	997
Purse	F. H. Lieker	364,529	June 7	469	126	39	1175
Purse	M. S. Smith	368,553	Aug. 16	1762	468	40	803
Push-button and thermostat. Combined	F. Keffer and A. McDowell	359,260	Mar. 15	1200	313	38	1140
Putty. Device for laying	J. H. Ives	356,200	Jan. 18	1295	342	38	262
Putty-knife	F. J. Branch	364,159	May 31	2977	773	39	1066
Puzzle	J. W. Hanson	357,923	Feb. 15	1711	447	38	758
Puzzle	A. P. Johnson	360,444	Apr. 5	71	18	39	15
Puzzle	H. Oelrich	358,620	Mar. 1	303	72	38	959
Puzzle-ring	W. H. A. Davidson	367,896	Aug. 9	817	220	40	615
Pyrometer	E. H. Keiser	373,742	Nov. 22	2208	590	41	912
Pyrosulphates. Making	H. Baum	373,264	Nov. 15	1486		41	762
Pyrotechnic displays. Apparatus for	C. H. Thayer	356,901	Feb. 1	223	62	38	462
Pyrotechnic package	C. B. Linton	356,651	Jan. 25	1940	508	38	393
Pyrotechnics. Electric	J. H. Irwin	367,402	Aug. 2	65	17	40	463
Pyroxyline compounds. Treating and ornamenting	J. A. McClelland	360,811	Apr. 5	583		39	110
Pyroxyline or nitro-cellulose. Compound for	O. P. Amend	372,100	Oct. 25	1975		41	410
Pyroxyline. Solvent for	O. P. Amend	371,021	Oct. 4	422		41	84
Pyroxyline. Solvent for	O. P. Amend. (Reissue)	10,879	Nov. 8	1150		41	691
Quadruple-expansion engine	H. See	357,968	Feb. 15	1777	466	38	770
Quarry-frame for rock-drills	H. C. Sergeant	355,347	Jan. 4	78	21	38	16
Quartz. Machine for crushing and screening	J. E. Paramore	358,292	Feb. 22	2241	591	38	862
Quicksand. Apparatus for sinking shafts through	W. S. Smith	371,389	Oct. 11	928	239	41	188
Quicksilver. Apparatus for saving floured	J. H. Rae	364,372	June 7	225	63	39	1131
Quilting-machine	A. Hildt	358,355	Feb. 22	2325	{ 616 617 }	{ 38	878
Quilting-machine	W. Koch	371,950	Oct. 25	1741	{ 450 451 }	{ 41	369
Quilting-machine	W. Koch	375,552	Dec. 27	1967	512	41	1453
Quilting-machine	J. Marhoeffer	369,255	Aug. 30	2727	{ 725 726 727 728 }	{ 40	1009
Quilting-machine	K. Zallud	373,510	Nov. 22	1886	500	41	848
Quoin	W. H. Golding	359,017	Mar. 8	884	225	38	1072
Rabbling-machine	C. McNeal	368,845	Aug. 23	2173	576	40	890
Rack:							
Broom-rack.	Hay and stock rack.						
Broom-holding rack.	Hay or hog rack.						
Cable-rack.	Jean-rack.						
Clothes-rack.	Measuring-rack.						
Coat-rack.	Plate-rack.						
Curtain-rack.	Pool-rack.						
Display-rack.	Towel-rack.						
Feed-rack.	Towel, hat, and paper						
Harness-rack.	rack.						
Hat-rack.	Wagon-rack.						
Hat and coat rack.	Watch-rack.						
Hay-rack.	Whip-rack.						
Rack	G. H. Adams	356,520	Jan. 25	1751	456	38	357
Rack	T. W. Ryan	366,739	July 19	1365	366	40	275
Rack-and-pinion device	L. Mathias and V. A. Walkup	370,709	Sept. 27	2039	542	40	1439
Rack-tooth	W. K. Hodgman and N. H. Cheney	364,926	June 14	1042	272	39	1290
Radiator	J. Askins	365,663	June 28	2144	560	39	1519
Radiator	Q. S. Backus	374,333	Dec. 6	231	62	41	1089
Radiator	R. F. Brown	374,518	Dec. 6	497	{ 129 130 }	{ 41	1142
Radiator	C. E. Hitchings	374,360	Dec. 6	276	74	41	1099
Radiator	J. Hopson, Jr., and L. S. Daniels	373,070	Nov. 15	1192	318	41	708
Radiator	P. J. Kelly	375,493	Dec. 27	1880	492	41	1436
Radiator	F. P. H. Prox	365,758	June 28	2290	595	39	1545
Radiator	E. A. Wood	371,017	Oct. 4	416	104	41	83
Radiator for heating air	W. P. and R. P. Thompson	370,830	Oct. 4	105	29	41	22
Radiator. Heat-	J. F. Keener	357,207	Feb. 8	689	178	38	558
Radiator or heating-drum	D. S. Richardson	361,321	Apr. 19	1341	345	39	266
Radiator. Portable	H. M. Young	373,574	Nov. 22	1974	{ 524 525 }	{ 41	863
Radiator. Steam	J. Askins	367,083	July 26	1823	491	40	369
Radiator. Steam	E. F. Landis	371,598	Oct. 18	1215	317	41	254
Radiator. Steam	G. W. Lloyd	369,863	Sept. 13	766	205	40	1188
Radiator. Steam	E. Mansell	360,319	Mar. 29	2868	730	38	1468
Radiator. Steam	J. G. Shearlock	356,293	Jan. 18	1427	376	38	288
Radiator. Steam	A. Weber	367,078	July 26	1815	489	40	367
Radiator-support	E. M. Fell	360,869	Apr. 12	676	177	39	133
Radiator-tubes. Machine for inserting diaphragms in	C. W. Nason	362,103	May 3	75	23, 24	39	488
Radiators. Cooking or heating attachment for steam	A. W. Newell	366,678	July 19	1284	{ 342 343 }	{ 40	260
or hot-water							
Rafting-boom pin	C. Buisson	357,365	Feb. 8	891	234	38	596
Rail and splice-joint. Center-bearing girder	A. J. Moxham	355,782	Jan. 11	674	176	38	140
Rail-brace	C. Alkins	365,222	June 21	1472	388	39	1379
Rail-braces. Die for forming	W. A. Cornbrooks	367,503	Aug. 2	221	63, 64	40	494
Rail-braces. Die for upsetting the abutting ends of	W. A. Cornbrooks	367,502	Aug. 2	219	63	40	494
Rail-chair or tie-plate	A. V. Du Pont	369,279	Aug. 30	2761	737	40	1015
Rail crossing. Girder-slot	E. B. Entwisle	367,746	Aug. 2	596	{ 161 162 }	{ 40	563
Rail-drill	M. W. Smith	373,318	Nov. 15	1567	415	41	777
Rail-fastening device	H. E. Crosswell	362,428	May 3	498	141	39	571
Rail. Girder	H. H. Littell	369,186	Aug. 30	2644	702	40	992
Rail. Girder	H. H. Littell	369,187	Aug. 30	2645	703	40	992

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Rail. Girder.....	H. H. Littell.....	369,188	Aug. 30	2645	703	40	992
Rail. Girder.....	H. H. Littell.....	369,189	Aug. 30	2646	703	40	992
Rail-joint.....	L. Anderson.....	363,040	May 17	1390	367	39	746
Rail-joint.....	E. M. Cooke.....	358,840	Mar. 8	621	153	38	1024
Rail-joint.....	G. J. Ferguson.....	374,529	Dec. 6	515	135	41	1146
Rail-joint.....	C. Fisher.....	360,673	Apr. 5	396	100	39	74
Rail-joint.....	J. D. Green.....	360,681	Apr. 5	405	103	39	76
Rail-joint.....	J. W. Storrs.....	359,521	Mar. 15	1594	408	38	1212
Rail-joint clamp.....	H. F. Cox.....	371,553	Oct. 18	1155	301	41	243
Rail-joint support.....	A. H. Ege.....	371,047	Oct. 4	455	114	41	90
Rail-joint union.....	B. Van Wie.....	360,543	Apr. 5	220	55	39	43
Rail-joints. Bolt-protector for.....	E. Gilmore.....	360,519	Apr. 5	187	46	39	37
Rail-joints. Splice-bar for.....	M. Sellers.....	359,100	Mar. 8	990	253	38	1093
Rail-punching machine.....	J. L. Koplin.....	371,597	Oct. 18	1214	317	41	254
Rail-scraper and snow-plow.....	E. B. Durfee.....	364,230	June 7	43	14	39	1096
Rail-splice.....	H. F. Cox.....	362,722	May 10	932	254	39	655
Rail-splice.....	H. F. Cox.....	362,723	May 10	933	255	39	655
Rails and chairs to metallic sleepers and the ends of rails to each other. Securing.....	J. Duffield.....	364,227	June 7	39	13	39	1096
Rails into girders. Conversion of old.....	J. Reese.....	371,361	Oct. 11	884	227	41	180
Rails. Machine for straightening.....	A. J. Gustin.....	358,116	Feb. 22	1994	{ 525 } 526	{ 38 } 38	{ 814 } 814
Rails. Making center-bearing girder.....	A. J. Moxham.....	355,780	Jan. 11	672	175	38	140
Rails. Pocket-filling device for girder.....	A. J. Moxham.....	367,654	Aug. 2	443	122	40	535
Rails to angle-bars. Rolls for reducing old.....	J. Reese.....	371,359	Oct. 11	882	226	41	180
Rails to rails of small size. Mechanism for reducing old.....	W. H. Howells.....	366,395	July 12	878	235	40	173
Railway.....	A. F. Godefroy.....	355,927	Jan. 11	895	{ 234 } 235 236	{ 38 } 38	{ 182 } 182
Railway.....	H. L. Stillman.....	370,164	Sept. 20	1241	330	40	1283
Railway.....	E. L. Taylor.....	371,993	Oct. 25	1798	466	41	380
Railway.....	W. Wharton, Jr.....	359,117	Mar. 8	1010	260	38	1097
Railway and pipe-subway. Underground.....	B. F. Carpenter.....	360,655	Apr. 5	374	95	39	71
Railway apparatus. Cable.....	H. W. McNeill.....	357,723	Feb. 15	1433	{ 376 } 377 351	{ 38 } 38	{ 706 } 706
Railway apparatus. Cable.....	H. W. McNeill.....	371,695	Oct. 18	1359	{ 352 } 353	{ 41 } 41	{ 284 } 284
Railway-bedding.....	F. X. Georget.....	365,511	June 28	1918	499	39	1476
Railway-brake.....	E. L. Reese.....	364,437	June 7	323	89	39	1149
Railway-brake.....	C. Selden.....	361,090	Apr. 12	1002	253	39	191
Railway-brake. Electro-magnetic.....	C. J. Van Depoele.....	367,685	Aug. 2	494	136	40	544
Railway bridge-guard.....	G. S. Morrill.....	361,018	Apr. 12	901	228	39	171
Railway bridle-rod.....	J. C. Lane.....	358,981	Mar. 8	834	210	38	1063
Railway buffer-post.....	S. P. Trafton.....	363,438	May 24	1929	506	39	859
Railway. Cable.....	P. M. Bruner.....	374,775	Dec. 13	864	227	41	1225
Railway. Cable.....	G. B. Bryant.....	366,199	July 12	610	166	40	124
Railway. Cable.....	G. W. Douglas.....	367,137	July 26	1897	513	40	382
Railway. Cable.....	C. J. P. Heim.....	371,064	Oct. 4	475	119	41	94
Railway. Cable.....	J. B. Heverling.....	368,668	Aug. 23	1915	509	40	841
Railway. Cable.....	J. B. Heverling.....	375,290	Dec. 20	1606	421	41	1374
Railway. Cable.....	W. Hopkins.....	373,979	Nov. 29	2548	685	41	984
Railway. Cable.....	N. Kirchner.....	355,826	Jan. 11	740	193	38	152
Railway. Cable.....	E. O. McGlaulin.....	359,802	Mar. 22	2044	518	38	1309
Railway. Cable.....	F. H. Morse.....	365,756	June 28	2288	594	39	1544
Railway. Cable.....	C. Peper.....	372,866	Nov. 8	884	{ 236 } 237	{ 41 } 41	{ 642 } 642
Railway. Cable.....	C. Peper.....	372,867	Nov. 8	885	237	41	643
Railway. Cable.....	A. A. Shobe.....	361,787	Apr. 26	2005	521	39	397
Railway. Cable.....	R. P. Walsh.....	360,742	Apr. 5	490	{ 125 } 126	{ 39 } 39	{ 91 } 91
Railway. Cable.....	R. P. Walsh.....	360,743	Apr. 5	492	126	39	92
Railway. Cable.....	C. Wise.....	357,162	Feb. 1	622	{ 160 } 161	{ 38 } 38	{ 535 } 535
Railway-cable grip.....	T. O. Cooper.....	372,121	Oct. 25	2005	{ 514 } 515	{ 41 } 41	{ 415 } 415
Railway cable roads. Pulley-box for curve-pulleys of.....	T. L. Johnson.....	362,635	May 10	812	222	39	631
Railway-carriage.....	R. R. Hazard.....	368,947	Aug. 30	2322	617	40	928
Railway cattle-guard.....	J. T. Gilbert.....	373,359	Nov. 15	1644	435	41	791
Railway cattle-guard.....	G. W. Parks and Z. C. Mathes.....	367,437	Aug. 2	107	29	40	471
Railway-chair and nut-lock. Combined.....	E. Jewell.....	359,610	Mar. 22	1763	447	38	1258
Railway chair or coupler.....	C. A. Weller and C. H. Acly.....	365,658	June 23	2139	558	39	1518
Railway-chair spike.....	A. J. Moxham.....	358,122	Feb. 22	2007	528	38	816
Railway-chairs and rail-clips to metallic sleepers. Securing.....	J. H. and W. Tozer.....	356,016	Jan. 11	1027	270	38	208
Railway-chairs. Die for making.....	E. B. Entwisle.....	368,142	Aug. 9	1162	{ 309 } 310	{ 40 } 40	{ 680 } 680
Railway channel. Cable.....	W. Dunham.....	375,480	Dec. 27	1865	487	41	1433
Railway clamp-plate.....	T. J. Bush.....	373,641	Nov. 22	2071	552	41	884
Railway-cleaning tool.....	C. M. Ingersoll.....	368,213	Aug. 16	1265	337	40	707
Railway-coaches. Means for lighting.....	J. Haish.....	361,220	Apr. 12	1210	{ 307 } 308	{ 39 } 39	{ 230 } 230
Railway construction.....	D. Bell.....	372,108	Oct. 25	1984	509	41	412
Railway construction. Cable.....	Z. P. Boyer.....	365,964	July 5	296	78	40	56
Railway construction. Cable.....	H. M. Lane.....	371,600	Oct. 18	1220	318	41	256
Railway cross-tie.....	H. C. Draper.....	359,854	Mar. 22	2137	539	38	1326
Railway cross-tie.....	D. C. Heller.....	370,192	Sept. 20	1279	341	40	1290
Railway cross-tie.....	J. Mahoney and D. W. Shockley.....	370,634	Sept. 27	1927	511	40	1419
Railway cross-tie.....	W. L. Van Harlingen, Sr.....	369,755	Sept. 13	601	163	40	1157
Railway cross-tie.....	W. L. Van Harlingen, Jr.....	369,756	Sept. 13	602	163	40	1157
Railway cross-tie and fastening.....	S. D. Locke.....	356,002	Jan. 11	1010	266	38	205
Railway-crossing.....	D. L. Burnett and L. De Lisle.....	366,922	July 19	1600	429	40	319
Railway-crossing.....	W. S. East.....	357,704	Feb. 15	1404	369	38	701

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Railway-crossing.....	E. Fontaine.....	370,462	Sept. 27	1670	445	40	1372
Railway-crossing.....	E. Fontaine.....	370,463	Sept. 27	1672	445	40	1372
Railway-crossing.....	C. R. and H. Johnson.....	356,364	Jan. 18	1530	402	38	308
Railway-crossing.....	A. D. Lewis.....	364,267	June 7	91	26	39	1106
Railway-crossing.....	J. T. Mabbey.....	367,008	July 19	1709	460	40	339
Railway-crossing.....	J. McKenna.....	359,089	Mar. 8	970	249	38	1089
Railway-crossing.....	A. McKenney.....	372,229	Oct. 25	2164	535 536	41	446
Railway-crossing.....	W. J. Morden.....	371,208	Oct. 11	673	172	41	141
Railway-crossing.....	A. J. Moxham.....	367,433	Aug. 2	103	27	40	470
Railway-crossing.....	J. W. Storrs.....	361,907	Apr. 26	2181	565	39	429
Railway-crossing.....	W. Wharton, Jr.....	359,116	Mar. 8	1009	260	38	1096
Railway-crossing alarm.....	S. P. Van Nort.....	359,371	Mar. 15	1356	351	38	1168
Railway crossing and curve. Cable.....	E. B. Badlam.....	371,660	Oct. 18	1302	338	41	273
Railway-crossing. Automatically-adjustable.....	T. McGrath.....	373,149	Nov. 15	1318	349	41	731
Railway-crossing frog.....	O. S. Hawyer.....	375,550	Dec. 27	1964	511	41	1452
Railway-crossing gate.....	J. A. Lidback.....	359,163	Mar. 8	1065	277 278	38	1107
Railway-crossing gate.....	N. Thelen and H. Cluever.....	369,621	Sept. 6	431	121	40	1117
Railway-crossing gate. Automatic.....	G. W. Housel.....	366,836	July 19	1491	398 399	40	297
Railway-crossing guard.....	M. Beshoar.....	374,772	Dec. 13	860	226	41	1224
Railway-crossing signal. Automatic.....	J. M. Allan.....	368,368	Aug. 16	1490	397	40	752
Railway crossing. Street.....	A. J. Moxham.....	374,265	Dec. 6	129	33, 34	41	1072
Railway-crossings and similar places. Foot-guard for.....	C. H. Watson.....	371,011	Oct. 4	409	102	41	82
Railway-crossings. Automatic gate for.....	W. H. Bishop.....	370,117	Sept. 20	1168	309	40	1268
Railway-crossings. Safety-gate for.....	M. B. Mills.....	356,325	Jan. 18	1474	388	38	297
Railway-crossings. Signal for.....	E. Fontaine.....	366,086	July 5	456	123	40	86
Railway danger-signal.....	J. D. Quinn and S. Crossley.....	374,373	Dec. 6	290	77	41	1101
Railway danger-signals in connection with switches. Means for operating.....	H. Roser.....	369,816	Sept. 13	690	186	40	1174
Railway draw-bridges. Signal for.....	L. J. Johnston.....	358,201	Feb. 22	2122	560	38	839
Railway. Electric.....	E. M. Bentley.....	359,050	Mar. 8	923	235 236	38	1079
Railway. Electric.....	E. M. Bentley.....	374,236	Dec. 6	92	23	41	1064
Railway. Electric.....	J. Hartman, Jr.....	371,936	Oct. 25	1722	445	41	365
Railway. Electric.....	I. W. Heysinger.....	359,607	Mar. 22	1754	446 447	38	1257
Railway electric signaling apparatus.....	G. Westinghouse, Jr.....	360,638	Apr. 5	349	87, 88	39	67
Railway. Electrical.....	B. Bidwell.....	373,046	Nov. 15	1159	310	41	702
Railway. Electrical.....	S. H. Short and J. W. Nesmith.....	362,325	May 3	351	96	39	541
Railway. Elevated.....	R. M. Beatty.....	367,887	Aug. 9	801	216	40	612
Railway. Elevated.....	W. R. Cole and J. E. Wyman.....	356,987	Feb. 1	341	90	38	486
Railway. Elevated.....	D. D. Read.....	373,605	Nov. 22	2017	535	41	873
Railway. Elevated.....	R. T. White.....	359,753	Mar. 22	1966	498 499	38	1295
Railway. Elevated gravity and cable.....	L. A. Thompson.....	367,252	July 26	2066	557 558 559	40	415
Railway fish-plate.....	T. A. Davies.....	362,251	May 3	260	73	39	524
Railway-frog.....	D. L. Burnett and L. De Lisle.....	357,951	Feb. 15	1749	456	38	765
Railway-frog.....	H. Chance.....	355,507	Jan. 4	275	73	38	55
Railway-frog.....	A. H. Ege.....	370,051	Sept. 20	1070	283	40	1251
Railway-frog.....	J. Green.....	364,102	May 31	2890	749	39	1049
Railway-frog.....	J. F. Hart and C. M. Hendry.....	375,627	Dec. 27	2077	540	41	1471
Railway-frog.....	J. McKenna.....	359,087	Mar. 8	968	248	38	1088
Railway-frog.....	A. A. Strom.....	374,505	Dec. 6	478	124	41	1137
Railway frog. Street.....	A. J. Moxham.....	358,619	Mar. 1	302	72	38	959
Railway-gate.....	J. B. Carey.....	373,642	Nov. 22	2072	553	41	884
Railway-gate.....	J. B. Carey.....	373,643	Nov. 22	2073	553 554	41	884
Railway-gate.....	O. H. P. Cornell.....	363,808	May 31	2474	642 643	39	970
Railway-gate.....	R. C. Elliott.....	356,402	Jan. 18	1580	416	38	317
Railway-gate.....	T. H. Fennell.....	364,165	May 31	2984	776	39	1067
Railway-gate.....	T. H. Fennell.....	364,166	May 31	2985	776	39	1067
Railway-gate.....	T. H. Fennell.....	364,167	May 31	2987	776	39	1068
Railway-gate.....	J. E. Secord.....	375,653	Dec. 27	2111	548 549	41	1478
Railway-gate.....	B. E. Wells.....	379,624	Sept. 6	435	121	40	1118
Railway-gate and semaphore. Combined.....	E. S. Piper.....	363,675	May 24	2277	590	39	927
Railway-gate. Automatic.....	C. R. Gavitt.....	363,133	May 17	1512	401	39	770
Railway-gate. Automatic.....	J. T. Phillips.....	363,845	May 31	2528	657	39	980
Railway gate. Elevated.....	L. Rinaldi.....	368,783	Aug. 23	2084	552	40	873
Railway gates and signals. Mechanism for operating.....	J. Hahn.....	370,188	Sept. 20	1272	338 339	40	1289
Railway grip. Cable.....	C. L. Gorrell.....	359,859	Mar. 22	2146	541	38	1327
Railway grip. Cable.....	J. B. Heverling.....	375,963	Dec. 20	1163	304	41	1290
Railway grip. Cable.....	G. Rischmuller.....	371,364	Oct. 11	887	228	41	181
Railway grip. Cable.....	H. R. Taylor.....	373,106	Nov. 15	1242	331	41	718
Railway grip. Cable.....	W. J. Thomas.....	367,467	Aug. 2	150	43	40	480
Railway guard-rail.....	F. X. Georget.....	369,446	Sept. 6	188	53, 54	40	1068
Railway-joint.....	H. M. Hall and B. H. Mahoney.....	362,958	May 17	1276	338	39	724
Railway-joint.....	S. A. Kilmer.....	363,398	May 24	1866	490	39	847
Railway-joint.....	S. A. Kilmer.....	371,688	Oct. 18	1349	349	41	282
Railway-joint protector or brace.....	D. S. Snyder and C. J. Hoteling.....	356,799	Feb. 1	80	23	38	438
Railway-joints, &c. Bridge-plate for.....	T. J. Bush.....	366,815	July 19	1464	391	40	293
Railway-plow.....	F. Nearing.....	367,155	July 26	1926	520	40	388
Railway-rail.....	J. M. Brosius.....	367,500	Aug. 2	217	62	40	493
Railway-rail.....	R. L. Harris.....	357,316	Feb. 8	832	217	38	584
Railway-rail.....	S. M. Jacobs.....	369,858	Sept. 13	755	202	40	1186
Railway-rail.....	F. Lightfoot.....	373,591	Nov. 22	1999	530	41	869
Railway-rail.....	W. Wharton, Jr., and E. Samuel.....	366,545	July 12	1071	291	40	213
Railway-rail.....	H. T. Wilson.....	368,638	Aug. 23	1871	499	40	833

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Railway-rail and bed-plate therefor	J. A. Elliott	369,049	Aug. 30	2464	654	40	956
Railway rail and conduit. Combined street-	G. C. Bolgiano	366,811	July 19	1458	390	40	292
Railway-rail bracket	J. Waterman and N. A. Gray	370,292	Sept. 20	1407	378	40	1314
Railway-rail chair	A. J. Moxham	355,779	Jan. 11	671	174	38	140
Railway-rail chair	A. J. Moxham	357,849	Feb. 15	1619	{ 420 421 }	38	741
Railway-rail chair	A. J. Moxham	367,434	Aug. 2	104	28	40	470
Railway-rail chair	I. A. Perry	363,167	May 17	1562	{ 411 412 }	39	781
Railway-rail chair or fastening	W. Goldie	356,760	Feb. 1	26	8	38	428
Railway-rail joint	A. A. Billingslea	355,500	Jan. 4	267	70	38	54
Railway-rail joint	H. D. Cone	373,052	Nov. 15	1166	312	41	703
Railway-rail joint	J. Dickson	370,382	Sept. 27	1547	414	40	1349
Railway-rail joint	B. Franklin	369,704	Sept. 13	542	149	40	1147
Railway-rail joint	A. H. Piland	359,175	Mar. 8	1077	280	38	1109
Railway-rail joint	J. Siegel	355,725	Jan. 11	597	156	38	137
Railway-rail joints. Device for preventing the depression of	W. Lyon and J. B. Gorrell	375,423	Dec. 27	1788	468	41	1418
Railway-rail joints. Fastening for	W. L. Van Harlingen	362,861	May 10	1124	302	39	689
Railway-rail seat	M. Potter	360,910	Apr. 12	731	192	39	142
Railway-rail splice	S. M. Prevost	360,047	Mar. 29	2453	625	38	1391
Railway-rail splice	D. E. Shea	368,017	Aug. 9	994	267	40	649
Railway-rail spring	E. A. Olmstead	364,432	June 7	315	86	39	1148
Railway rail. Street	D. C. Cregier	369,398	Sept. 6	122	35	40	1055
Railway rail. Street	E. Feige	364,502	June 7	419	113	39	1167
Railway-rail support	D. Atwood	372,284	Nov. 1	2	1	41	471
Railway-rail tie and fastening	A. Roelofs	365,350	June 21	1666	435	39	1415
Railway-rails and bearing for such joints. Fish-plate joint for	W. Lepsky	374,604	Dec. 13	629	164	41	1177
Railway-rails. Apparatus for facilitating the cooling of	J. Coffin	368,132	Aug. 9	1144	{ 303 304 }	40	676
Railway-rails, &c. Automatic mechanism for straightening	A. J. Gustin	358,810	Mar. 1	566	{ 141 142 143 }	38	1009
Railway rails. Cast-iron brace-chair for street-	O. W. Meysenburg	357,532	Feb. 8	1141	299	38	643
Railway-rails. Chair for	M. W. Thomson	371,862	Oct. 18	1610	416	41	335
Railway-rails. Device for securing	H. B. Hall	356,404	Jan. 18	1582	416	38	318
Railway-rails. Fish-plate for	W. B. Chisolm	375,124	Dec. 20	1395	{ 362 363 }	41	1332
Railway-rails. Splice-bar for	J. Potter	375,193	Dec. 20	1486	389	41	1351
Railway-rails to metal sleepers. Securing	L. P. Goffin and E. Vanriet	368,714	Aug. 23	1987	528	40	855
Railway-rails to their fish-plates at the rail-joints. Locking	J. Tittle	356,904	Feb. 1	228	63	38	463
Railway route-abstract	T. F. Nelson	363,907	May 31	2605	677	39	994
Railway safety-track	N. C. Locke	364,121	May 31	2919	757	39	1054
Railway-shunt	F. W. Kalbfleisch	373,294	Nov. 15	1533	405	41	770
Railway-signal	J. H. Ames	356,342	Jan. 18	1502	394	38	303
Railway-signal	R. D. Anderson	370,917	Oct. 4	271	66, 67	41	53
Railway-signal	J. H. Armstrong	364,204	June 7	9	3	39	1090
Railway-signal	I. H. Brown	368,066	Aug. 9	1059	283	40	660
Railway-signal	G. D. Burton and C. H. Magoon	368,512	Aug. 16	1704	{ 454 455 }	40	792
Railway-signal	E. M. Chase	371,670	Oct. 18	1317	{ 341 342 343 }	41	276
Railway-signal	A. G. Cummings	361,617	Apr. 19	1746	{ 452 453 454 }	39	342
Railway-signal	E. Fontaine	374,053	Nov. 29	2654	713	41	1005
Railway-signal	B. H. Gedge	364,009	May 31	2765	717	39	1025
Railway-signal	J. H. Gibson	375,063	Dec. 20	1300	{ 339 340 }	41	1314
Railway-signal	M. W. Long	359,512	Mar. 15	1572	403	38	1208
Railway-signal	P. Milroy	371,147	Oct. 4	588	151	41	116
Railway-signal	I. Nash and T. Burley	368,680	Aug. 23	1935	514	40	846
Railway-signal	A. B. Patton and R. S. Conner	375,649	Dec. 27	2104	548	41	1477
Railway-signal	F. Pearce	372,865	Nov. 8	881	{ 235 236 }	41	642
Railway-signal	A. B. Snyder	356,798	Feb. 1	79	22	38	438
Railway-signal	V. Spicer and J. Schreuder	372,578	Nov. 1	436	116	41	552
Railway-signal	G. A. and D. R. Stedman	374,132	Nov. 29	2766	743	41	1027
Railway-signal	D. Tapley	361,467	Apr. 19	1538	398	39	302
Railway-signal	D., Jr., and F. H. Vinton	372,095	Oct. 25	1968	506	41	408
Railway-signal	P. J. Wicks	362,409	May 3	469	{ 129 130 }	39	566
Railway-signal	G. H. Wright	360,077	Mar. 29	2502	636	38	1400
Railway-signal apparatus	T. R. A. Weber	360,496	Apr. 5	144	36	39	27
Railway-signal. Automatic	R. A. Regester and G. D. Greenwood	372,386	Nov. 1	154	44, 45	41	499
Railway-signal connection	F. H. Treacy	375,398	Dec. 27	1756	460	41	1412
Railway-signal. Electric	E. M. Chase	367,598	Aug. 2	350	100	40	518
Railway-signal. Electric	J. H. Farrar	369,929	Sept. 13	876	232	40	1208
Railway-signal. Electric	M. W. Long	365,345	June 21	1657	433	39	1413
Railway-signal. Electric	J. M. Scott	360,175	Mar. 29	2669	673	38	1430
Railway-signal. Electric	C. D. Tisdale	359,040	Mar. 8	908	231	38	1076
Railway-signal. Electric	E. D. Wells	357,881	Feb. 15	1660	{ 431 432 }	38	748
Railway-signals. Device for automatically operating	J. M. Allan	368,369	Aug. 16	1491	398	40	752
Railway-signaling	S. B. Stewart	361,730	Apr. 26	1919	498	39	381
Railway-signaling. Electric	G. Westinghouse, Jr.	357,296	Feb. 8	806	210	38	580
Railway. Single-track	G. W. Wright and R. Roach	357,649	Feb. 15	1328	349	38	687
Railway snow-plow	W. H. Herbert	369,709	Sept. 13	547	{ 150 151 }	40	1148
Railway-spike	T. A. Davies	362,252	May 3	262	73	39	524
Railway-spike	P. H. Dudley	362,208	May 3	207	61	39	513
Railway-spike	J. M. Fennerty	371,185	Oct. 11	641	164	41	134

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Railway-spike.....	J. H. Morgan.....	371,471	Oct. 11	1038	270	41	211
Railway-spike.....	A. Welsh.....	364,071	May 31	2847	739	39	1041
Railway-spike and making the same.....	T. A. Davies.....	368,818	Aug. 23	2133	565	40	882
Railway-station indicator.....	J. P. Roberge and L. P. Timmons.....	362,662	May 10	848	232	39	638
Railway-station indicator. Automatic.....	W. B. Bradsby and E. W. Hagee.....	373,961	Nov. 29	2522	{ 678 679 }	{ 41 41 }	978
Railway. Street.....	R. A. Chesebrough.....	375,123	Dec. 20	1394	362	41	1332
Railway. Street.....	D. C. Cregier.....	369,397	Sept. 6	120	35	40	1055
Railway. Street.....	C. K. Dickson.....	361,211	Apr. 12	1193	{ 302 303 }	{ 39 39 }	226
Railway structure. Cable.....	C. H. Platt.....	358,126	Feb. 22	2015	530	38	818
Railway superstructure. Elevated.....	E. S. Shaw.....	361,029	Apr. 12	916	{ 232 233 }	{ 39 39 }	174
Railway-switch.....	H. C. Cannon and J. P. Canty.....	361,130	Apr. 12	1063	269	39	202
Railway-switch.....	R. W. Cloud.....	375,048	Dec. 20	1281	334	41	1310
Railway-switch.....	W. R. Coppedge.....	372,122	Oct. 25	2007	515	41	416
Railway-switch.....	S. C. C. Currie.....	374,733	Dec. 13	804	211	41	1213
Railway-switch.....	J. Daly.....	372,255	Oct. 25	2205	565	41	454
Railway-switch.....	J. Donovan.....	369,633	Sept. 6	446	{ 124 125 }	{ 40 40 }	1119
Railway-switch.....	M. Dudley.....	374,827	Dec. 13	942	246	41	1240
Railway-switch.....	A. H. Ege.....	357,189	Feb. 8	665	{ 172 173 }	{ 38 38 }	553
Railway-switch.....	E. Fontaine.....	374,054	Nov. 29	2656	713	41	1005
Railway-switch.....	M. A. Gerber.....	363,380	May 24	1839	484	39	843
Railway-switch.....	M. A. Gerber. (Reissue).....	10,883	Nov. 22	2306	617	41	930
Railway-switch.....	J. Hahn.....	370,189	Sept. 20	1275	{ 339 340 }	{ 40 40 }	1289
Railway-switch.....	J. L. Hoyer.....	361,699	Apr. 26	1877	486	39	374
Railway-switch.....	R. H. Isbell.....	358,398	Feb. 22	2383	633	38	889
Railway-switch.....	W. C. Meeker.....	370,274	Sept. 20	1381	371	40	1310
Railway-switch.....	M. B. Mills.....	370,642	Sept. 27	1937	{ 513 514 }	{ 40 40 }	1421
Railway-switch.....	C. C. Montague.....	371,470	Oct. 11	1036	270	41	210
Railway-switch.....	J. W. Robberson.....	367,765	Aug. 2	621	{ 167 168 }	{ 40 40 }	568
Railway-switch.....	R. Rowe.....	365,704	June 28	2203	575	39	1529
Railway-switch.....	R. B. Short.....	372,715	Nov. 8	634	173	41	601
Railway-switch.....	J. B. Suffern.....	370,988	Oct. 4	382	95, 96	41	76
Railway-switch.....	O. E. Swartz.....	363,348	May 17	1802	472	39	827
Railway-switch.....	J. A. Tilden.....	371,994	Oct. 25	1801	466	41	381
Railway-switch.....	F. C. Weir.....	374,099	Nov. 29	2723	{ 730 731 }	{ 41 41 }	1019
Railway-switch.....	W. Wharton, Jr.....	357,438	Feb. 8	995	262	38	615
Railway-switch.....	W. D. Woodward.....	367,882	Aug. 9	794	{ 214 215 }	{ 40 40 }	611
Railway switch and signal apparatus.....	F. S. Guerber.....	362,580	May 10	717	200	39	614
Railway-switch and signal-operating mechanism.....	C. S. Drake.....	370,531	Sept. 27	1770	{ 472 473 }	{ 40 40 }	1389
Railway-switch. Automatic.....	G. S. Elliott.....	362,578	May 10	714	199	39	614
Railway-switch. Automatic.....	G. L. Garmer.....	371,190	Oct. 11	649	166	41	136
Railway-switch. Automatic.....	A. P. Odell.....	372,234	Oct. 25	2174	558	41	448
Railway-switch. Automatic snow-cleaning.....	U. S. Lutz.....	370,797	Oct. 4	64	17	41	15
Railway-switch or other casting.....	W. Wharton, Jr.....	356,609	Jan. 25	1875	493	38	381
Railway switch. Overhead.....	E. Samuel and V. Angerer.....	364,548	June 7	493	133	39	1180
Railway-switch plate.....	C. H. Twist.....	356,607	Jan. 25	1873	492	38	381
Railway-switch. Portable.....	J. M. Alford.....	370,754	Oct. 4	1	1	41	3
Railway-switch. Portable.....	O. S. Fertig.....	371,748	Oct. 18	1437	372	41	301
Railway switch-stand.....	D. H. Foreman.....	357,475	Feb. 8	1053	{ 278 279 }	{ 38 38 }	626
Railway switch-stand.....	W. C. Meeker and T. R. Brown.....	364,722	June 14	724	193	39	1233
Railway switch. Suspended.....	R. Potter and H. McDougall.....	367,842	Aug. 9	739	199	40	600
Railway switches and bridges. Signal for open.....	D. M. Fike.....	369,001	Aug. 30	2396	636	40	943
Railway-switches automatically from a moving train. Device to open and close.....	A. E. Wormer.....	372,053	Oct. 25	1900	490	41	397
Railway-switches. Connecting-rod for.....	W. P. Dodson.....	365,369	June 28	1697	441	39	1434
Railway switches. Device for operating street.....	H. P. Millington.....	362,770	May 10	1012	275	39	668
Railway switches. Device for operating street.....	H. D. Whipple.....	362,802	May 10	1049	285	39	675
Railway-switches, &c. Foot-guard for.....	E. P. Edwards.....	367,609	Aug. 2	367	104	40	521
Railway-switches. Locking device for.....	E. H. Johnston.....	356,841	Feb. 1	137	38	38	448
Railway-switches. Means for operating.....	H. Roser.....	379,815	Sept. 13	688	186	40	1173
Railway-switches. Safety-signal for.....	W. B. Thomas and C. H. Driver.....	366,277	July 12	723	196	40	144
Railway system. Cable.....	W. I. Ludlow.....	358,781	Mar. 1	528	129	38	1001
Railway system. Endless.....	L. Goddu.....	369,335	Sept. 6	33	10, 11	40	1041
Railway system. Portable.....	A. M. Leinwather.....	375,422	Dec. 27	1786	{ 467 468 }	{ 41 41 }	1418
Railway T-chair.....	A. J. Moxham.....	366,498	July 12	1003	{ 273 274 }	{ 40 40 }	200
Railway-tank.....	W. W. Maysent and F. Jones.....	371,467	Oct. 11	1032	269	41	210
Railway-tie.....	J. K. Clark.....	362,608	May 10	763	{ 210 211 }	{ 39 39 }	622
Railway-tie.....	J. H. Coffman.....	369,591	Sept. 6	381	106	40	1107
Railway-tie.....	G. De Beaulieu.....	365,169	June 21	1408	371	39	1366
Railway-tie.....	J. Fitzgerald.....	367,383	Aug. 2	36	10	40	458
Railway-tie.....	W. P. Hall and C. C. Barnett.....	373,656	Nov. 22	2093	559	41	889
Railway-tie.....	R. C. Lukens.....	370,072	Sept. 20	1099	291	40	1257
Railway-tie.....	A. McKenney.....	372,230	Oct. 25	2166	556	41	446
Railway-tie.....	R. Morrell.....	365,932	July 5	251	66	40	49
Railway-tie.....	R. Morrell.....	365,933	July 5	252	67	40	49
Railway-tie.....	J. Moser and E. Moeckel.....	371,780	Oct. 18	1483	383	41	310
Railway-tie.....	J. H. Stull.....	372,879	Nov. 8	908	245	41	646
Railway-tie.....	L. Taylor.....	363,020	May 17	1357	358	39	740
Railway-tie.....	M. Y. Thompson.....	360,397	Mar. 29	2983	756	38	1487
Railway-tie.....	J. B. Williams.....	370,837	Oct. 4	119	32	41	25

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Railway-tie	C. W. Yost	370,226	Sept. 20	1319	351	40	1298
Railway tie and chair. Metallic	H. P. Adams	361,199	Apr. 12	1173	296	39	222
Railway tie and chair. Metallic	J. Clark	358,144	Feb. 22	2037	536	38	822
Railway-tie and rail-fastening. Combined	N. S. White	366,546	July 12	1072	291	40	213
Railway-tie. Metallic	J. A. Dunning	372,525	Nov. 1	347	96	41	536
Railway-tie. Metallic	T. Gleason	359,440	Mar. 15	1465	375	38	1188
Railway-tie. Metallic	C. Netter	372,864	Nov. 8	880	235	41	642
Railway-tie. Metallic	R. S. Sea	375,005	Dec. 20	1220	319	41	1300
Railway-tie. Metallic	J. Splane	367,325	July 26	2174	584	40	434
Railway-tie. Metallic	W. H. Troxell	371,110	Oct. 4	538	137	41	107
Railway-ties. Attachment for	P. Simler	374,090	Nov. 29	2714	728	41	1018
Railway time-signal	C. M. Clinton	357,065	Feb. 1	454	120	38	506
Railway time-signal	A. P. Odell	357,407	Feb. 8	954	251	38	608
Railway time-signal	A. D. Simpson and D. Strain	360,056	Mar. 29	2464	627	38	1393
Railway time-signal	H. A. Wayne	355,850	Jan. 11	777	204	38	158
Railway-track	J. Lawler	357,396	Feb. 8	939	247		
Railway-track	C. L. McGlothlen	368,224	Aug. 16	1301	343	40	713
Railway track and rail	B. S. Doran	367,607	Aug. 2	365	103	40	521
Railway track and truck	W. F. Goodwin	359,507	Mar. 15	1564	400	38	1206
Railway-track chairs. Die for forging cross-bars of	A. A. Strom	365,028	June 14	1191	314		
Railway track-drill	L. J. Crecelius	375,669	Dec. 27	2138	555	41	1483
Railway track-drill	L. J. Crecelius	375,670	Dec. 27	2140	556		
Railway track, frog, and switch cleaner	C. M. Ingersoll	362,967	May 17	1287	342	39	726
Railway-tracks. Apparatus for watering	J. L. Fisher	364,001	May 31	2754	714	39	1022
Railway-tracks. Combination crossing and switch for	A. J. Moxham	367,655	Aug. 2	443	122	40	535
Railway-tracks. Construction of	E. S. Fassett	363,513	May 24	2046	123		
Railway-tracks. Machine for laying	D. S. Moore	356,777	Feb. 1	44	532	39	883
Railway tracks. Metallic-cored post for street	A. J. Moxham	355,778	Jan. 11	670	13	38	432
Railway-tracks. Recording the conditions of and marking	P. H. Dudley	367,708	Aug. 2	527	174	40	551
Railway-train signal	C. M. Radford	369,657	Sept. 6	479	144		
Railway-train timer	G. W. Housel	375,160	Dec. 20	1446	145		
Railway-trains. Electrical conductor for	A. L. Duwelius	366,209	July 12	624	146		
Railway-trains. Electro-pneumatic brake for	H. Hollerith	363,464	May 24	1965	147	40	1126
Railway-trains. Heating	J. S. Case	366,761	July 19	1395	171	40	1342
Railway turn-table lock	W. H. Inloes, W. D. Justice, and C. F. Christopher	369,527	Sept. 6	295	82	40	126
Railway water-tank	C. C. Wrenshall	363,934	May 31	2654	514	39	865
Railway-wheel	T. R. Crampton	370,451	Sept. 27	1649	373	40	280
Railway-wheel	W. Sellers	372,573	Nov. 1	428	82	40	1090
Railways. Automatic caten for inclined	J. Schuller	375,203	Dec. 20	1498	689	39	1002
Railways. Automatic safety-guard and track-clearer for underground cable	W. Irelan, Sr	363,394	May 24	1860	440	40	1367
Railways. Automatic stop for abutting rails of	V. Angerer	364,200	May 31	3038	115	41	551
Railways. Automatic switch for street	J. Hope, Jr	362,158	May 3	146	43	39	502
Railways. Balanced pulley for cable	W. Dunham	362,258	May 3	268	75	39	525
Railways. Bolt for elevated	C. Hall	362,274	May 3	289	80	39	529
Railways, &c. Bridge for elevated	G. H. Pegram	359,467	Mar. 15	1502	384	38	1195
Railways. Cable-lifter for cable	J. H. Robertson	372,930	Nov. 8	973	264	41	659
Railways. Cable propulsion for	R. F. Bridewell	367,086	July 26	1827	492	40	370
Railways. Combined sleeper and chair for	J. Riley	362,786	May 10	1033	493		
Railways. Combined sleeper and chair for	J. Riley	362,787	May 10	1034	281	39	672
Railways. Combined visual and audible signal for	F. H. Treacy	369,895	Sept. 13	817	217	40	1198
Railways. Conduit for cable	E. D. Dougherty	364,500	June 7	417	113	39	1167
Railways. Conduit for cable or electric	W. Nier	374,315	Dec. 6	209	55	41	1085
Railways. Conduit for electric	F. Euphrat	368,576	Aug. 23	1793	477	40	818
Railways. Conduit for traction	G. H. Regar and O. T. Moock	363,912	May 31	2614	678	39	996
Railways. Conduit for traction-rope or endless-cable	Z. P. Boyer	359,421	Mar. 15	1441	368	38	1183
Railways. Conduit or bracket for cable	E. D. Dougherty	364,499	June 7	415	112	39	1167
Railways. Construction and operation of	W. F. Goodwin	370,534	Sept. 27	1776	474	40	1390
Railways. Construction of	J. J. Anderson	357,301	Feb. 8	816	212	38	581
Railways. Construction of curve portions of cable	E. Samuel	363,545	May 24	2094	542	39	891
Railways. Construction of tunnels for cable	J. Jonson	368,834	Aug. 23	2152	543		
Railways. Cross-tie for cable	H. Martin	356,595	Jan. 25	1854	570	38	377
Railways. Crossing for cable	H. H. Lynch	359,396	Mar. 15	1402	571		
Railways. Curved crossing for street	A. J. Moxham	366,497	July 12	1002	273	40	199
Railways. Device for paying rebates on	C. S. Westbrook	363,031	May 17	1375	363	39	743
Railways. Differential gear for cable	J. P. Noyes	370,490	Sept. 27	1710	364		
Railways. Electric bell-coupler for steam	J. M. Duby and J. L. Edmester	366,654	July 19	1245	453	40	1378
Railways. Equalizer for cables of cable	W. H. H. Sisum	361,378	Apr. 19	1422	454		
Railways. Grip apparatus for cable	N. Abbott	363,788	May 31	2443	333	40	253
Railways. Grip-carriage for cable	J. H. Dale	364,490	June 7	404	367	39	280
Railways. Grip for cable	R. S. Belisle	361,608	Apr. 19	1735	635	39	965
Railways. Grip for cable	J. H. Dale	364,488	June 7	399	404	39	1164
Railways. Grip for cable	C. Vogel and F. Whelan	359,043	Mar. 8	914	448	39	339
Railways. Grip mechanism for cable	H. M. Lane	371,599	Oct. 18	1216	108	41	255
Railways. Gripper for cable	W. H. Paine	371,095	Oct. 4	515	109		
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Railways. Gripper for cable.....	G. W. Stewart.....	364,381	June 7	237	67	39	1133
Railways. Gripping device for cable.....	W. Embley.....	362,067	May 3	21	7	39	477
Railways. Horizontal-curve construction for cable.....	H. M. Lane.....	371,601	Oct. 18	1222	318	41	256
Railways. Lock and switch for.....	I. May, C. and T. Spikins.....	355,545	Jan. 4	325	87	38	66
Railways. Movable-tongue switch for street.....	A. J. Moxham.....	366,598	July 12	1165	313	40	230
Railways or roads. Flanged wheel for.....	C. J. Schoening.....	361,027	Apr. 12	914	{ 231 232 }	{ 39 }	173
Railways. Permanent way for.....	I. A. Perry.....	372,703	Nov. 8	619	168	41	597
Railways. Permanent way of.....	E. Samuel.....	366,031	July 5	390	105	40	73
Railways. Portable frog or car-replacer for.....	W. O. Cooke.....	364,091	May 31	2872	745	39	1046
Railways. Pulley for cable.....	E. D. Dougherty.....	364,498	June 7	414	112	39	1166
Railways. Rail-connection for electric.....	E. L. Orcutt.....	374,199	Dec. 6	47	12	41	1056
Railways. Rail for street.....	H. H. Littell.....	369,190	Aug. 30	2646	703	40	993
Railways. Rail-splice for.....	W. H. Hoffman.....	371,584	Oct. 18	1200	313	41	252
Railways. Safety appliance for.....	F. S. Guerber.....	365,001	June 14	1150	302	39	1309
Railways. Safety appliance for.....	F. S. Guerber.....	365,002	June 14	1152	302	39	1310
Railways. Safety appliance for.....	F. S. Guerber.....	365,003	June 14	1155	{ 302 303 }	{ 39 }	1310
Railways. Self-acting apparatus for working points and signals upon.....	G. P. Dineen.....	363,613	May 24	2194	568	39	911
Railways. Subway for cable.....	C. Vogel and F. Whelan.....	358,584	Mar. 1	255	59	38	951
Railways. Suspended conductor for electric.....	C. J. Van Depoele.....	358,512	Mar. 1	130	33	38	928
Railways. Switch for street.....	W. C. Wood.....	359,987	Mar. 22	2337	588	38	1363
Railways. Switch for overhead.....	V. Angerer.....	364,626	June 14	591	159	39	1207
Railways. Switch for three-rail.....	W. B. Mack.....	361,428	Apr. 19	1488	384	39	293
Railways. System of electrical distribution for.....	W. J. McElroy and J. D. Nicholson.....	363,250	May 17	1666	437	39	801
Railways. Tension device for cable.....	J. H. Dale.....	364,489	June 7	402	109	39	1164
Railways. Tongue-switch for street.....	A. J. Moxham.....	364,725	June 14	728	194	39	1234
Railways. Traction mechanism for cable.....	T. L. Johnson.....	362,634	May 10	809	{ 221 222 }	{ 39 }	630
Railways. Tramway for elevated.....	B. F. Hamilton.....	366,627	July 12	1203	322	40	238
Railways. Transmitting power in cable.....	R. S. Belisle.....	363,576	May 24	2137	554	39	900
Railways. Triplex moter for street.....	B. C. Pole.....	365,273	June 21	1554	{ 405 406 }	{ 39 }	1393
Railways. Tunnel for cable.....	J. C. Haag and E. W. Evans.....	355,448	Jan. 4	200	54	38	40
Railways. Underground conduit for electric and other.....	E. E. Ries.....	370,283	Sept. 20	1392	374	40	1312
Railways, with means of insulating the rails. Tramway for elevated electric.....	B. F. Hamilton.....	365,341	June 21	1652	432	39	1412
Rain-water and filtering the same. Intercepting impurities contained in.....	H. Curzon.....	356,192	Jan. 18	1283	339	38	260
Raisin-stemmer.....	J. Porteous.....	362,228	May 3	234	68	39	518
Raisins. Packing-plate for.....	T. C. White.....	371,013	Oct. 4	411	103	41	82
Rake: See Farm-rake. Hay-rake. Garden-rake. Horse-rake. Hand-rake. Wheel-rake. Harvester-rake.							
Rake.....	J. J. Worley, J. K. Robinson, and J. Hillis.....	358,137	Feb. 22	2031	534	38	821
Rake teeth. Apparatus for forming horse-.....	J. N. Short.....	373,949	Nov. 29	2506	{ 672 673 }	{ 41 }	975
Rake-teeth. Machine for pointing.....	E. P. Burns.....	374,342	Dec. 6	248	66	41	1093
Rakes, &c. Lever attachment for.....	D. F. Oliver.....	373,902	Nov. 29	2444	656	41	963
Rakes. Manufacture of.....	R. Nixon.....	368,681	Aug. 23	1937	514	40	847
Ram. Hydraulic.....	J. Richards.....	357,413	Feb. 8	960	253	38	609
Ram or engine. Hydraulic.....	W. A. Rife.....	357,414	Feb. 8	962	{ 253 254 }	{ 38 }	609
Ramie and other fibers. Apparatus for drying and cleaning.....	C. C. Kauffman.....	362,386	May 3	439	122	39	560
Ramie and other fibers. Treating.....	C. C. Kauffman and J. Austin.....	362,387	May 3	441	122	39	561
Ramie, jute, &c., stripping machine.....	C. C. Kauffman.....	362,385	May 3	438	121	39	560
Rand and making the same.....	F. F. Raymond, 2d.....	356,890	Feb. 1	210	59	38	460
Range.....	P. Klotz.....	364,116	May 31	2906	754	39	1052
Range-boilers. Pedestal for.....	A. P. Creque.....	367,093	July 26	1838	{ 495 496 }	{ 40 }	372
Range. Broiling.....	E. Calone and F. Danton.....	360,372	Mar. 29	2947	749	38	1480
Range. Cooking.....	E. Lofts.....	367,150	July 26	1918	518	40	386
Range or cooking-stove.....	G. H. Holliday.....	357,929	Feb. 15	1722	450	38	760
Range. Portable.....	J. P. Youngman.....	363,786	May 24	2438	632	39	958
Ranges. Cooking attachment for.....	W. P. Abendroth.....	370,228	Sept. 20	1322	{ 352 353 }	{ 40 }	1298
Rasping-tool.....	E. Bradt.....	372,594	Nov. 1	456	122	41	556
Rat-trap.....	J. Harvell.....	364,924	June 14	1039	271	39	1289
Ratchet-and-lever mechanism.....	J. Bayet.....	375,527	Dec. 27	1923	504	41	1445
Ratchet-and-pawl device.....	A. B. Case.....	373,811	Nov. 29	2314	620	41	940
Ratchet-and-pawl device.....	A. B. Case.....	373,812	Nov. 29	2315	620	41	940
Ratchet-and-pawl device.....	W. A. Loud.....	367,419	Aug. 2	86	23	40	467
Ratchet-brace.....	G. M. Latorge.....	364,422	June 7	300	83	39	1145
Ratchet-drill.....	E. Beals.....	371,407	Oct. 11	954	{ 246 247 }	{ 41 }	193
Ratchet-drill.....	C. Davy.....	365,587	June 28	2040	532	39	1499
Ratchet-drill.....	S. Harris.....	371,452	Oct. 11	1112	263	41	206
Ratchet-drill.....	A. W. Linton.....	370,956	Oct. 4	328	81	41	64
Ratchet-drill.....	J. Noble.....	368,162	Aug. 9	1185	316	40	684
Ratchet-drill.....	H. F. L. Orcutt.....	367,723	Aug. 2	564	154	40	558
Ratchet-drill.....	A. L. Stanford.....	371,858	Oct. 18	1605	{ 414 415 }	{ 41 }	334
Ratchet-drill and die-stock. Combined.....	A. Loehner.....	366,965	July 19	1659	445	40	331
Ratchet tool-handle.....	J. Swan.....	357,245	Feb. 8	735	191	38	566
Ratchet-wrench.....	L. Bryant.....	372,654	Nov. 8	552	151	41	584
Rattan article.....	F. H. Conant.....	373,583	Nov. 22	1985	527	41	866
Rattan. Treating.....	H. Endemann.....	368,523	Aug. 16	1716	457	40	794
Rattan-working machine.....	E. L. and J. G. Rüngert.....	370,355	Sept. 20	1496	401	40	1332

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Razor	P. Wahl	362,336	May 3	368	102	39	546
Razor. Safety-	A. S. Aloe	375,592	Dec. 27	2023	526	41	1463
Razor. Safety-	S. A. Aloe	374,769	Dec. 13	858	225	41	1224
Razor. Safety-	H. C. Bliss	369,909	Sept. 13	837	222	40	1202
Razor. Safety-	H. G. Fiske	373,395	Nov. 15	1689	448	41	800
Razor. Safety-	F. O. and R. Kampfe	358,978	Mar. 8	829	209	38	1062
Razor. Safety-	A. Partridge	361,234	Apr. 12	1228	312	39	233
Razor. Safety-	G. Rein	358,751	Mar. 1	485	118	38	993
Razor. Safety-	C. H. Shaw	361,377	Apr. 19	1421	367	39	280
Razor. Safety-	J. Turner	370,505	Sept. 27	1733	460	40	1382
Razor. Safety-	J. Turner	370,506	Sept. 27	1734	460	40	1382
Razor-strop	G. Helen	368,667	Aug. 23	1914	40	40	841
Razors. Die for forging	J. Turner	370,504	Sept. 27	1732	460	40	1382
Razors. Machine for honing	P. Wahl	355,956	Jan. 11	953	249	38	193
Reach-coupling	H. B. Yaryan	370,916	Oct. 4	270	66	41	53
Reaction-wheel	H. J. Seigneuret	364,866	June 14	956	252	39	1274
Reamer	H. Kingman	375,361	Dec. 27	1706	448	41	1402
Reaming-tools. Holder for	J. S. Winsor, Jr.	366,908	July 19	1585	424	40	316
Reaper, binder, and harvester	J. Bachman	365,771	July 5	3	1, 2	40	3
Reapers. Cutter mechanism for	L. W. Clark	374,397	Dec. 6	319	84	41	1107
Reaping and mowing machine	C. L. Grimes and F. H. Williams	357,527	Feb. 8	1131	296	38	641
Reaping-machine	J. Jansson	370,946	Oct. 4	307	75, 76	41	61
Reclining and reversible chair	S. G. Scarritt and J. H. Mosley	365,025	June 14	1182	310	39	1314
Reclining-chair	A. Assmus	368,989	Aug. 30	2380	{ 632 633 }	40	940
Reclining-chair	C. Ferst	357,955	Feb. 15	1753	458	38	766
Reclining-chair	O. A. Hanford	367,292	July 26	2134	574	40	426
Reclining-chair	T. G. Maguire	360,454	Apr. 5	83	22	39	17
Reclining-chair	E. M. Santee	364,732	June 14	736	196	39	1235
Reclining-chair	S. G. Scarritt and J. H. Mosley	369,558	Sept. 6	334	92	40	1098
Reclining-chair	W. A. Shuler	366,980	July 19	1678	451	40	333
Reclining-chair. Adjustable	A. E. Palmer	364,368	June 7	220	61	39	1130
Reclining-chair. Rocking	F. Nabal	369,806	Sept. 13	674	183	40	1171
Recorder:							
See Employé's recorder. Time-recorder.							
Music-recorder.							
Rectifying apparatus	F. Pacziga	369,877	Sept. 13	794	212	40	1193
Reed-plates. Machine for making	A. H. Hammond	373,588	Nov. 22	1991	529	41	867
Reel:							
See Belt-reel.							
Hose-reel.							
Carpet-cleaning reel.							
Lead-pipe reel.							
Clothes-line reel.							
Paper-bag reel.							
Fish-line reel.							
Twine-reel.							
Fishing-line reel.							
Wire-cloth-delivering reel.							
Flour-bolting reel.							
Harvester-reel.							
Wire-rod reel.							
Reel	F. H. Daniels	371,927	Oct. 25	1706	442	41	363
Reel	F. Eitapenc	374,734	Dec. 13	806	212	41	1213
Reel	E. S. Hunt	370,479	Sept. 27	1695	450	40	1376
Reel	W. Slote	360,624	Apr. 5	335	83	39	64
Reel-bolt	O. P. Hurford	367,757	Aug. 2	611	165	40	566
Reel for displaying and measuring dry goods	C. W. Campbell, J. J. Hill, and W. E. Dodd.	362,490	May 10	593	{ 167 168 }	39	593
Reel-supporting arm	J. B. Gemmill	356,829	Feb. 1	116	32	38	444
Reflector for electric lights	W. W. Downing and A. B. Upham	360,002	Mar. 29	2368	598	38	1375
Reflector for head-lights, &c	T. C. Cooper	370,687	Sept. 27	2004	533	40	1433
Reflector. Lamp-	J. Levy	359,794	Mar. 22	2031	515	38	1307
Reflector. Lamp-	R. E. Williams	365,215	June 21	1462	385	39	1377
Reflector. Safety sight-feed	W. S. Getchell	363,060	May 17	1413	374	39	750
Reflector. Window-	K. Frekker	366,624	July 12	1200	321	40	237
Refrigerating apparatus	A. J. Chase	374,114	Nov. 29	2744	{ 737 738 }	41	1023
Refrigerating apparatus. Compressor-pump for	E. Penney	363,672	May 24	2274	{ 589 590 }	39	926
Refrigerating cellars and vaults	M. Leavy	356,254	Jan. 18	1366	361	38	277
Refrigerating device	H. W. Spright	369,132	Aug. 30	2578	685	40	978
Refrigerating-machine	A. Osenbrück	375,188	Dec. 20	1480	{ 387 388 }	41	1350
Refrigerating-machines. Compressor-pump for	E. Penney	367,726	Aug. 2	569	155	40	558
Refrigerating-safe. Combination	J. E. Holmes	357,830	Feb. 15	1593	413	38	736
Refrigerating structure	T. M. Foote	363,624	May 24	2213	573	39	915
Refrigerating. System of and apparatus for	A. Snyder	373,319	Nov. 15	1568	416	41	778
Refrigeration by compression and expansion of gases	G. F. Meyer	371,779	Oct. 18	1482	41	41	310
Refrigeration. Separating ammonium chloride from solutions by	G. Jarmay	356,133	Jan. 18	1210	38	38	247
Refrigerator	I. Allegretti	370,591	Sept. 27	1864	495	40	1406
Refrigerator	C. A. Bluhm	365,901	July 5	201	51, 52	40	39
Refrigerator	W. Campbell	362,200	May 3	193	57	39	511
Refrigerator	W. W. Dunn	357,953	Feb. 15	1751	457	38	765
Refrigerator	J. P. Emery	356,226	Jan. 18	1329	351	38	270
Refrigerator	G. E. Fell	364,809	June 14	876	230	39	1259
Refrigerator	J. H. Ford	365,740	June 28	2265	590	39	1541
Refrigerator	C. B. Gardner	374,184	Dec. 6	30	7, 8	41	1052
Refrigerator	J. L. Gray	370,469	Sept. 27	1678	447	40	1373
Refrigerator	B. A. Stevens	369,212	Aug. 30	2674	711	40	998
Refrigerator	W. C. Sweet	355,667	Jan. 4	504	133	38	98
Refrigerator	J. Weitz and H. Klassert	362,690	May 10	889	242	39	646
Refrigerator and water-cooler. Combined	C. F. Slifer	366,694	July 19	1301	348	40	264
Refrigerator-building	A. I. Dexter	371,180	Oct. 11	636	163	41	133
Refrigerator-building	C. A. Fredericks	373,228	Nov. 15	1446	381	41	754
Refrigerator-building	C. A. Fredericks	373,229	Nov. 15	1448	382	41	755
Refrigerator-car	W. L. Cook	367,600	Aug. 2	356	101	40	519
Refrigerator-car	C. C. Palmer	375,191	Dec. 20	1483	{ 388 389 }	41	1351

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Refrigerator-car	D. W. Riordan	363,543	May 24	2091	{ 541 542 }	{ 39	891
Refrigerator dairy-can	J. T. Swander	359,985	Mar. 22	2336	587	38	1362
Refrigerator for ice and cold-air machines	H. B. Ford	363,454	May 24	1950	510	39	862
Refrigerators. Ice-holder for	T. S. Doherty	356,753	Feb. 1	18	6	38	426
Refuse-burner	C. T. Bucher	375,667	Dec. 27	2135	555	41	1483
Refuse-burner	W. Mann	371,203	Oct. 11	668	170	41	140
Refuse-burner	E. G. Teed	357,108	Feb. 1	514	{ 135 136 }	{ 38	517
Regenerating-furnace	W. J. Lewis	371,334	Oct. 11	846	217	41	173
Regenerative furnace	L. G. Laureau	362,018	Apr. 26	2346	612	39	458
Register:							
See Account-register. Game-register.							
Autographic register. Grain-register.							
Bank-register. Lumber-register.							
Cash-register. Switch-register.							
Check-register. Telephone-register.							
Fare-register. Telephone-call register.							
Furnace-register. Toll-collector's register.							
Register	F. Lumbert	374,976	Dec. 20	1185	309	41	1294
Register, border, and box. Combined	H. K. Tallmage	363,181	May 17	1577	416	39	785
Registers. Dust-receiver for pipes of floor	F. M. Colston	358,733	Mar. 1	462	112	38	990
Registers. Heat-deflector for	H. P. Klein	365,078	June 21	1272	336	39	1341
Registering apparatus	A. Berrenberg	369,092	Aug. 30	2530	671	40	968
Registering apparatus	C. F. W. Doebring and C. G. Hoffman	361,678	Apr. 26	1851	480	39	370
Registering apparatus	F. H. Hambleton	360,291	Mar. 29	2839	722	38	1462
Registering device. Electrical	A. S. Hobby	371,583	Oct. 18	1198	313	41	252
Regulator:							
See Air-supply regulator. Flue-regulator.							
Boiler-feed regulator. Fluid-regulator.							
Damper-regulator. Furnace air-regulator.							
Draft-regulator. Gas-regulator.							
Electric regulator. Gas-burner regulator.							
Electric-circuit regulator. Gas-pressure regulator.							
Electric-current regulator. Heat-regulator.							
Electric-generator. Induction-coil regulator.							
regulator. Lamp-regulator.							
Electric-machine. Pressure-regulator.							
regulator. Pressure and heat regulator.							
Electro-magnetic. Speed-regulator.							
motor regulator. Steam-heater regulator.							
Feed-water regulator. Temperature-regulator.							
Reheating-furnace for sheet iron or steel	W. H. Bailey	357,447	Feb. 8	1009	267	38	618
Rein attachment. Check	C. L. Bard	368,447	Aug. 16	1613	431	40	776
Rein attachment. Check	E. T. Covell	370,320	Sept. 20	1445	387	40	1322
Rein-guard	J. S. Cusson	362,430	May 3	501	141	39	572
Rein-guard	J. H. Tibbetts	374,813	Dec. 13	920	240	41	1235
Rein-guard. Vehicle	J. Waterous	360,495	Apr. 5	144	35	39	27
Rein-guide	N. D. Noble	369,465	Sept. 6	213	60	40	1073
Rein-guide	S. Ward	361,472	Apr. 19	1545	400	39	303
Rein. Harness safety	C. Dannhauer	372,362	Nov. 1	116	35	41	493
Rein-holder	C. E. Austin	360,264	Mar. 29	2796	711	38	1454
Rein-holder	F. D. Behrens	373,716	Nov. 22	2173	581	41	905
Rein-holder	A. Cottrell	364,336	June 7	174	48	39	1121
Rein-holder	D. Goff	359,505	Mar. 15	1562	399	38	1206
Rein-holder	M. R. Heatherly	357,991	Feb. 15	1811	475	38	776
Rein-holder	J. C. Henry	364,718	June 14	720	192	39	1232
Rein-holder	C. W. Pearsall	370,814	Oct. 4	84	22	41	18
Rein-holder	W. Tennison	357,427	Feb. 8	980	258	38	612
Rein-holder	R. P. Tomassek	355,900	Jan. 11	863	225	38	175
Rein-holder	C. S. Whiston	377,946	Feb. 15	1744	455	38	764
Rein holder. Check	T. F. Carroll and S. J. Cilley	360,278	Mar. 29	2815	716	38	1458
Rein hook. Check	A. N. Hovey	367,400	Aug. 2	63	16	40	463
Rein hook. Check	F. Snyder	362,466	May 3	558	155	39	581
Rein-protector	D. Leith	357,776	Feb. 15	1528	398	38	723
Rein-releasing device. Check	E. E. Neal	363,414	May 24	1891	497	39	852
Rein-support	W. F. Heney	357,826	Feb. 15	1589	412	38	735
Rein-supporter	A. P. Fisher	367,611	Aug. 2	369	104	40	522
Rein-supporter	R. Stoodley	362,552	May 10	679	190	39	608
Relay-instrument	G. T. Woods	364,619	June 7	575	154	39	1196
Relay. Polarized	G. T. Woods	366,192	July 5	599	162	40	113
Releasing device	M. M. Shelley	367,556	Aug. 2	293	83	40	506
Releasing-hook. Automatic	O. B. Hall	357,148	Feb. 1	603	154	38	531
Remedies to seat of disease. Conveying	A. J. Spinner	361,599	Apr. 19	1723	445	39	337
Remedy. Alterative	C. C. Schoeller	370,976	Oct. 4	360	.....	41	72
Remedy for corns, bunions, &c	C. R. PaDro	355,552	Jan. 4	336	.....	38	68
Remedy for rheumatism	E. E. Burnett	366,149	July 5	542	.....	40	102
Remedy for rheumatism, &c	T. J. Carson, R. H. Williams, and D. C. Turner	367,337	July 26	2196	.....	40	438
Remedy. Topical	F. Johnson	355,824	Jan. 11	739	.....	38	152
Reservoir or tank	D. W. Brown	370,372	Sept. 27	1528	410	40	1346
Resin-acid ethers. Manufacture of	E. Schaal. (Reissue)	10,823	Mar. 29	2991	.....	38	1488
Resins. Hardening	J. B. Melvin	370,640	Sept. 27	1935	.....	40	1420
Respiration. Apparatus for producing artificial	G. E. Fell	374,402	Dec. 6	326	86	41	1108
Respirator. Nasal	R. O. McMaster	369,019	Aug. 30	2418	642	40	947
Rest for invalids. Supporting	B. F. Nicholas	374,804	Dec. 13	908	237	41	1233
Restaurants. Means for serving guests in	J. Doriat	358,149	Feb. 22	2044	537	38	823
Retort for the mixture of furnace-gases	O. M. Simmons	368,979	Aug. 30	2364	628	40	937

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Retorts or gas-generators. Regulating the supply of liquid to	W. T. Hildrup, Jr	362,081	May 3	38	11	39	480
Retouching-table	C. L. Dunham and G. N. Hoffman ..	356,577	Jan. 25	1833	480	38	372
Reversible seat	A. J. Barber	368,270	Aug. 16	1361	{ 358 } 359	{ 40 } 39	725
Reversible seat	S. P. McKelvey and G. L. Van Beek ..	363,661	May 24	2257	585	39	923
Reversing mechanism	S. Whitlock	362,344	May 3	379	105	39	548
Revolver	S. Forehand	355,761	Jan. 11	642	168	38	135
Revolver	G. H. Harrington and W. A. Richardson ..	360,686	Apr. 5	410	105	39	77
Revolver	I. Johnson and A. Fyrberg	357,085	Feb. 1	482	129	38	511
Revolver	I. Johnson and A. Fyrberg	362,631	May 10	803	219	39	629
Revolver	I. Johnson and A. Fyrberg	362,632	May 10	804	220	39	629
Revolver	J. M. Marlin	367,535	Aug. 2	260	74	40	501
Revolver	J. M. Marlin	368,599	Aug. 23	1820	485	40	824
Revolver	D. B. Wesson	356,377	Jan. 18	1559	410	38	313
Revolvers. Barrel-catch and cylinder-retaining device for	D. B. Wesson	361,101	Apr. 12	1017	257	39	194
Revolvers. Barrel-catch device for	D. B. Wesson	360,263	Mar. 29	2795	711	38	1454
Revolvers. Ejector mechanism for	F. A. Foster	361,819	Apr. 26	2046	532	39	404
Revolvers. Folding guard for	D. L. Tower	366,531	July 12	1057	287	40	210
Revolving furnace for chemical processes	J. Mactear	361,429	Apr. 19	1489	{ 384 } 385	{ 39 } 39	293
Rheostat	J. Hartman, Jr	371,937	Oct. 25	1723	{ 445 } 446	{ 41 } 41	366
Rheostat and contact-point. Automatic	A. G. Waterhouse	375,403	Dec. 27	1761	462	41	1413
Rheotome. Vibrating	J. R. Hard	371,755	Oct. 18	1447	374	41	303
Ribbon	J. W. Kelly	365,689	June 28	2184	570	39	1526
Ribbon-holder	G. A. Loyd	369,537	Sept. 6	306	84	40	1092
Rice-hulling machine	J. Yates	366,910	July 19	1585	424	40	316
Rice-machine	F. J. Syme	365,451	June 28	1823	474	39	1456
Rice-mill	J. A. Lockfaw	365,191	June 21	1434	378	39	1371
Rice-pounder	P. Rahm	356,501	Jan. 25	1727	451	38	353
Riding-gallery	J. H. Small	371,386	Oct. 11	925	238	41	187
Rim-turner	G. A. Kollenberg	359,263	Mar. 15	1202	314	38	1140
Ring:							
See Curtain-ring. Hog-ring.							
Curtain-pole ring. Initial ring.							
Ear-ring. Key-ring.							
Finger-ring. Lap-ring.							
Galvanic ring. Packing-ring.							
Globe or shade ring. Puzzle-ring.							
Hame-ring. Sheet-metal ring.							
Hat-ring. Spinning-frame ring.							
Ring and buckle. Combined	W. V. Kay	355,536	Jan. 4	314	83	38	63
Ring for attachment to curtains, skirts, &c	E. D. McCracken	361,175	Apr. 12	1138	287	39	216
Rings or chain-links. Manufacture of	W. A. Peck	367,923	Aug. 9	853	232	40	623
Rivet	M. Arnold	361,390	Apr. 19	1438	371	39	283
Rivet	L. O. Dion	357,118	Feb. 1	555	144	38	524
Rivet	E. L. Sibley	358,225	Feb. 22	2150	567	38	844
Rivet-holding device	W. Oldman, Jr	367,314	July 26	2159	581	40	431
Rivet-receptacle	A. L. Conklin	357,177	Feb. 8	647	168	38	550
Rivets. Machine for setting tack-	H. H. Cummings and L. O. Dion ..	364,578	June 7	530	142	39	1188
Riveting device	R. J. Kyle	375,677	Dec. 27	2150	559	41	1485
Riveting-machine	M. Arnold	371,659	Oct. 18	1300	337	41	272
Riveting-machine	J. H. Elward	356,033	Jan. 11	1049	{ 275 } 276	{ 38 } 38	212
Riveting-machine	C. Hall	373,891	Nov. 29	2423	651	41	960
Riveting-machine	L. Hewitt	367,628	Aug. 2	395	111	40	527
Riveting-machine	E. L. Sibley	358,224	Feb. 22	2149	566	38	844
Riveting-machine	J. S. Snedeker	360,178	Mar. 29	2672	674	38	1430
Riveting-machine	J. L. Thomson and J. J. Unbehend ..	363,921	May 31	2630	{ 683 } 684	{ 39 } 39	998
Riveting-machine	J. J. Unbehend	363,923	May 31	2638	685	39	1000
Riveting-machine	J. F. Webster	357,294	Feb. 8	803	209	38	579
Road and ditching machine. Direct-draft	H. C. Moore	365,845	July 5	118	32	40	24
Road and ditching machine. Direct-draft	H. C. Moore	365,846	July 5	119	33	40	25
Road and ditching machine. Direct-draft	H. C. Moore	365,847	July 5	121	33, 34	40	25
Road digger and scraper	A. Finks	367,968	Aug. 9	926	{ 250 } 251	{ 40 } 40	636
Road-engine	R. M. Downie	374,664	Dec. 13	710	{ 186 } 187	{ 41 } 41	1194
Road-engine	W. S. Wootton	375,307	Dec. 20	1635	{ 428 } 429	{ 41 } 41	1380
Road-making machine	F. T. Lomont	365,138	June 21	1365	{ 361 } 362	{ 39 } 39	1357
Road or farm gate	G. King	372,474	Nov. 1	279	77	41	524
Roads. Machine for clearing and working	J. Fay	355,519	Jan. 4	290	77, 78	38	58
Roads. Machine for making, repairing, and cleaning	G. W. Taft	362,679	May 10	871	{ 237 } 238	{ 39 } 39	642
Roaster:							
See Coffee-roaster. Ore-roaster.							
Roaster	S. C. Drumheller	363,813	May 31	2482	644	39	972
Rock and coal drill	C. B. Dawson	362,366	May 3	406	113	39	553
Rock, &c. Apparatus for washing	O. W. Donner	366,820	July 19	1472	392	40	294
Rock-boring rods. Manufacture of	R. Wilson	360,941	Apr. 12	781	203	39	151
Rock-drill	G. M. Githens	362,617	May 10	1777	214	39	625
Rock-drill	J. C. Githens	356,464	Jan. 25	1670	437	38	342
Rock-drill	J. C. Hyndman	359,019	Mar. 8	886	226	38	1072
Rock-drill carriage	J. C. Githens	359,720	Mar. 22	1912	485	38	1286
Rock-drill clamp	G. R. Cullingworth	371,672	Oct. 18	1323	342	41	277
Rock-drill. Diamond	W. Odgers	369,654	Sept. 6	475	132	40	1125
Rock-drill. Electric	C. E. Ball	362,053	May 3	3	1	39	473
Rock-drill. Electric	H. N. Marvin	368,405	Aug. 16	1535	410	40	761

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Rock-drill. Electric	H. N. Marvin	368,406	Aug. 16	1539	411	40	762
Rock-drill. Electric	L. J. Phelps	366,184	July 5	588	157 158	40	111
Rock-drill. Electro-magnetic	H. N. Marvin	361,829	Apr. 26	2060	536 537	39	407
Rock-drill guide	T. Murdoch	364,278	June 7	104	30	39	1109
Rock-drill. Hand	A. J. Becker	371,297	Oct. 11	797	203	41	164
Rock-drill. Steam	H. Fischer	359,143	Mar. 8	1039	270	38	1103
Rock-drill. Steam	G. W. Jones	373,894	Nov. 29	2434	653	41	962
Rock-drill stuffing-box	J. Tarn and G. A. Schury	370,990	Oct. 4	385	96	41	76
Rock-drills. Automatic feed for	S. D. Harris	366,581	July 12	1136	304	40	226
Rock-drills. Core-breaker for annular	A. Ball	366,913	July 19	1589	425	40	317
Rock-drills. Core-breaker for annular	A. Ball	366,914	July 19	1590	425	40	317
Rock-drills. Machine for dressing	J. B. Maas	368,296	Aug. 16	1400	369	40	733
Rock-drills. Quarry-frame for	G. R. Cullingworth	365,733	June 28	2256	588	39	1538
Rock. Drilling	A. Krause	372,154	Oct. 25	2054	526	41	424
Rock-drilling device	T. Murdock	357,729	Feb. 15	1448	379	38	708
Rock-drilling machine	J. Jennings	362,089	May 3	53	16	39	483
Rock-drilling machine	J. C. Stevens	371,800	Oct. 18	1516	391	41	316
Rock-drilling machine. Combined hand and engine power	J. C. Stevens	359,578	Mar. 15	1687	431	38	1229
Rock-drilling machine. Hand-power	R. P. Elmore and J. O. Ehbets	368,658	Aug. 23	1894	505	40	837
Rock. Method of and tool for drilling	G. M. Githens	371,679	Oct. 18	1333	346	41	279
Rock or coal drill	J. Sheib	357,637	Feb. 15	1310	344	38	683
Rock or well drilling machine	C. Harman	372,143	Oct. 25	2040	522	41	422
Rockers. Spring for	F. Latulip	355,769	Jan. 11	651	170	38	137
Rocking-chair	G. F. Hall	355,315	Jan. 4	32	9	38	8
Rocking-chair	D. A. Lochbihler and G. L. Edloff	375,325	Dec. 20	1658	435	41	1385
Rocking-chair	H. P. Roberts	360,729	Apr. 5	474	121	39	89
Rocking-chair. Reclining	I. W. Johnson	357,205	Feb. 8	687	178	38	557
Rocking-chair spring attachment	A. B. Stevens	374,854	Dec. 13	974	254	41	1245
Rod:							
See Blind-slat rod. Lightning-rod.							
Connecting-rod. Manipulating-rod.							
Fishing-rod. Railway bridle-rod.							
Leveling-rod.							
Rod-coupling	J. Leib	365,263	June 21	1541	402	39	1391
Rod-cutter	J. Klein	374,480	Dec. 6	444	115	41	1130
Rod or bolt cutter	W. Woolgar	362,137	May 3	115	35	39	495
Rods, &c. Machine for straightening	M. Krumm	362,287	May 3	303	84	39	532
Rods. Machine for upsetting collars on	C. O. Wilder	365,212	June 21	1459	384	39	1377
Rods, tubes, &c. Machine for cutting or screw-threading	A. Saunders	364,962	June 14	1095	285	39	1299
Roll attachment. Automatic guide-	R. Smith	362,674	May 10	864	236	39	641
Roll. Crushing-	E. A. Wall	372,583	Nov. 1	442	118	41	553
Roll. Dandy-	J. J. Sellers	362,790	May 10	1037	282	39	673
Roll for reducing old rails to flat bars	E. D. Wassell	365,453	June 28	1825	475	39	1457
Rolls	M. Sellers	367,933	Aug. 9	874	237	40	626
Rolls. Machine for milling	J. A. Lidback	358,158	Feb. 22	2057	541	38	826
Rolls. Manufacture of	J. S. Atkinson	364,157	May 31	2973	.....	39	1064
Roller:							
See Anti-friction roller. Land-roller.							
Barrel-roller. Shade-roller.							
Blind-roller. Skate-roller.							
Card-clothed roller. Spring-roller.							
Door-roller. Transfer-roller.							
Roller and towel-rack. Combined	F. W. Swigart	364,611	June 7	567	153	39	1194
Roller-bearing. Anti-friction	W. M. Updegrave	366,534	July 12	1060	288	40	210
Roller-bearing for shafts and axles	J. Gibbons. (Reissue)	10,805	Feb. 8	1196	314	38	654
Roller-knife	W. Weber	359,480	Mar. 15	1525	390	38	1200
Roller-mill	H. A. Barnard	364,984	June 14	1130	295	39	1306
Roller-mill	G. Cottrell	356,623	Jan. 25	1907	500	38	386
Roller-mill	J. D. Mawhood	373,241	Nov. 15	1461	385	41	757
Roller-mill	J. D. Mawhood	373,408	Nov. 15	1711	453	41	803
Roller-mill	J. M. Schutz	363,687	May 24	2303	598	39	932
Roller-mill	J. Stevens	370,097	Sept. 20	1132	300	40	1262
Roller-mill	J. Walker	361,383	Apr. 19	1428	369	39	282
Roller-mill	J. L. Willford	367,570	Aug. 2	313	90, 91	40	511
Roller-mills. Feed mechanism for	C. Poister	369,551	Sept. 6	323	89	40	1096
Roller-mills. Feed-regulator for	J. and J. B. Holgate	361,416	Apr. 19	1470	380	39	289
Roller-mills. Feed regulator for	O. Smith	372,939	Nov. 8	984	267	41	661
Roller-mills. Feeding bagasse to	A. Young	362,810	May 10	1056	287 288	39	677
Roller-mills. Feeding device for	J. D. Mawhood	362,027	Apr. 26	2361	615	39	460
Roller reducing-mill	J. P. Doelfel and F. Spiess	373,728	Nov. 22	2190	585	41	908
Rollers. Adjusting cam-	F. H. Richards	366,189	July 5	595	160	40	113
Rollers. Machine for making and attaching buckle-	E. L. Howe	366,585	July 12	1142	305 306 307	40	227
Rolling and punching machine. Combined metal-	W. C Hogg	355,693	Jan. 11	544	143	38	116
Rolling bars for angle-iron	J. M. Baker	374,770	Dec. 13	858	225 226	41	1224
Rolling car-wheel tires. Machine for	J. Munton	363,843	May 31	2525	656 657	39	980
Rolling center-bearing girder-rails. Rolls for	A. J. Moxham	355,781	Jan. 11	673	175	38	140
Rolling damaskeened rods	R. Mannesmann	365,482	June 28	1868	485	39	1465
Rolling deck-beams. Rolls for	J. Reese	371,360	Oct. 11	883	227	41	180
Rolling girder-rails. Rolls for	A. J. Moxham	360,036	Mar. 29	2428	616 617	38	1387
Rolling grooved girder-rails for street-cars. Rolls for	A. J. Moxham	355,777	Jan. 11	668	174	38	140
Rolling hollow ware. Machine for	J. T. Duff	358,438	Mar. 1	19	6, 7	38	906
Rolling horseshoe-bars. Machine for	J. Russell	368,621	Aug. 23	1850	494 495	40	829

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Rolling-machine for tapering bars.....	G. M. Hughes	368,671	Aug. 23	1920	{ 510 511	{ 40	843
Rolling machine. Metal.....	R. Bagaley and W. Hainsworth	374,335	Dec. 6	233	62, 63	41	1090
Rolling machine. Skelp.....	J. M. Price	373,481	Nov. 22	1824	{ 485 486	{ 41	838
Rolling metal to spherical form. Machine for.....	C. F. Tebbetts.....	367,682	Aug. 2	490	135	40	543
Rolling-mill.....	C. B. Beach.....	370,519	Sept. 27	1752	467	40	1385
Rolling-mill.....	C. B. Beach.....	370,520	Sept. 27	1753	468	40	1386
Rolling-mill.....	C. B. Beach.....	370,524	Sept. 27	1760	469	40	1387
Rolling-mill.....	E. Bowen.....	361,858	Apr. 26	2114	548	39	417
Rolling-mill.....	F. H. Daniels.....	355,390	Jan. 4	128	35	38	27
Rolling-mill.....	J. McIlvried.....	370,487	Sept. 27	1706	{ 452 453	{ 40	1377
Rolling-mill.....	J. M. Price	363,482	May 24	1997	{ 521 522	{ 39	873
Rolling-mill.....	H. Sack.....	365,100	June 21	1307	346	39	1347
Rolling-mill.....	F. W. Stammer.....	375,657	Dec. 27	2118	550	41	1479
Rolling-mill appliance.....	C. H. Morgan.....	366,236	July 12	670	182	40	134
Rolling-mill. Continuous.....	C. B. Beach.....	370,522	Sept. 27	1759	469	40	1386
Rolling mill. Iron.....	W. G. Howell.....	363,293	May 17	1724	452	39	812
Rolling-mill plant.....	C. B. Beach.....	370,521	Sept. 27	1757	468	40	1386
Rolling-mill plant.....	C. B. Beach.....	370,523	Sept. 27	1760	469	40	1387
Rolling-mill. Reversing.....	J. Q. Everson.....	372,747	Nov. 8	683	{ 188 189	{ 41	608
Rolling mill. Tube.....	J. H. Flagler.....	371,835	Oct. 18	1566	404	41	326
Rolling-mills. Appliance for heating rolls of.....	F. Hilton.....	372,621	Nov. 1	495	{ 134 135	{ 41	564
Rolling-mills. Conductor for.....	F. G. Tallman.....	366,136	July 5	525	142	40	99
Rolling-mills. Device for balancing rolls of.....	F. G. Tallman.....	367,464	Aug. 2	147	42	40	479
Rolling-mills. Feeding appliance for.....	C. M. Ryder.....	375,716	Dec. 27	2202	{ 573 574	{ 41	1495
Rolling-mills. Guard-screen for.....	F. H. Daniels.....	367,193	July 26	1970	533	40	396
Rolling-mills. Shifting device for feed-tables of.....	R. W. Bailey.....	364,392	June 7	251	70, 71	39	1136
Rolling nail-plates. Rolls for.....	G. T. Walker.....	355,848	Jan. 11	774	{ 203 204	{ 38	157
Rolling plates or sheets.....	J. Guest.....	359,149	Mar. 8	1047	{ 272 273	{ 38	1104
Rolling railway-ties. Rolls for.....	F. X. Georget.....	364,642	June 14	613	{ 164 165	{ 39	1211
Rolling ribbed plates. Device for.....	J. D. Ellis.....	369,328	Sept. 6	26	7, 8	40	1040
Rolling rods, &c. Rolls for.....	H. A. Williams.....	367,879	Aug. 9	790	213	40	610
Rolling screws. Machine for.....	H. A. Harvey.....	357,001	Feb. 1	359	95, 96	38	489
Rolling screws. Machine for.....	H. A. Harvey.....	357,002	Feb. 1	362	96	38	489
Rolling seamless tubes. Machine for.....	W. H. Appleton.....	369,311	Sept. 6	2	1	40	1035
Rolling wheel-tire bars. Rolls for.....	W. Fox.....	366,390	July 12	873	234	40	172
Rolling wire rods.....	E. S. Lenox.....	361,591	Apr. 19	1710	442	39	334
Roof.....	I. H. Asire.....	361,974	Apr. 26	2283	594	39	446
Roof.....	E. Horbaczewski.....	370,259	Sept. 20	1360	{ 364 365	{ 40	1306
Roof. Metal.....	W. L. Heberling.....	364,251	June 7	70	20	39	1102
Roof. Metal.....	W. L. and H. Heberling.....	358,856	Mar. 8	660	165	38	1030
Roof. Sheet-metal.....	F. E. Sagendorph.....	357,041	Feb. 1	421	112	38	500
Roof. Sheet-metal.....	A. Wightman.....	365,290	June 21	1580	411	39	1398
Roof. Slate.....	W. Redett.....	357,503	Feb. 8	1091	288	38	634
Roof-valley.....	J. E. Carroll.....	373,129	Nov. 15	1278	340	41	725
Roofs and other structures. Means for use in the glazing of.....	J. D. Mackenzie.....	356,652	Jan. 25	1942	508	38	393
Roofs, &c. Composition for coating.....	D. Brobst.....	360,949	Apr. 12	793	.....	39	153
Roofs. Construction of timber.....	R. R. Little.....	367,759	Aug. 2	614	166	40	566
Roofs of buildings. Protecting.....	G. F. Gavitt.....	359,318	Mar. 15	1279	331	38	1154
Roofs. Standing seam for sheet-metal.....	F. E. Sagendorph.....	357,634	Feb. 15	1307	343	38	683
Roofing.....	G. Crowl.....	360,796	Apr. 5	560	146	39	105
Roofing.....	C. French.....	359,925	Mar. 22	2243	564	38	1346
Roofing.....	W. H. Fay.....	362,732	May 10	943	257	39	656
Roofing.....	L. Henkle.....	364,253	June 7	72	21	39	1102
Roofing.....	W. H. Stewart.....	358,994	Mar. 8	853	216	38	1066
Roofing and method of and apparatus for constructing the same. Thatched.....	H. Steddom, Jr.....	370,984	Oct. 4	372	93	41	74
Roofing and protecting metals. Compound for.....	F. H. Snyder.....	357,104	Feb. 1	510	.....	38	516
Roofing attachment.....	O. M. Martz.....	369,257	Aug. 30	2734	728	40	1010
Roofing. Cap-former for standing seams of.....	B. F. Caldwell and W. F. Peterson.....	373,335	Nov. 15	1595	421	41	782
Roofing. Cleat for metal.....	L. L. Sagendorph.....	372,931	Nov. 8	974	264	41	659
Roofing compound.....	J. W. Dietzel.....	368,936	Aug. 30	2310	.....	40	926
Roofing compound.....	C. L. Klinefelter.....	368,476	Aug. 16	1652	.....	40	783
Roofing. Flashing for metal.....	L. L. Sagendorph.....	364,304	June 7	137	39	39	1114
Roofing. Machine for constructing two-ply or three-ply.....	P. Carey.....	362,202	May 3	194	58	39	511
Roofing. Machine for making metallic.....	L. L. Sagendorph.....	365,540	June 28	1959	{ 510 511	{ 39	1485
Roofing. Machine for the manufacture of.....	G. W. McGraw.....	366,857	July 19	1523	{ 408 409	{ 40	304
Roofing machine. Tin.....	F. T. Baldwin.....	373,215	Nov. 15	1424	376	41	751
Roofing material.....	G. W. Swan.....	358,502	Mar. 1	118	28	38	925
Roofing material. Process of and apparatus for manufacturing.....	H. M. Miner.....	373,085	Nov. 15	1215	{ 324 325	{ 41	713
Roofing. Metallic.....	T. W. Helliwell.....	356,393	Jan. 18	1568	413	38	315
Roofing. Metallic.....	L. H. Montross.....	373,373	Nov. 15	1662	442	41	795
Roofing. Metallic.....	L. L. Sagendorph.....	355,888	Jan. 11	840	{ 220 221	{ 38	170
Roofing. Metallic.....	L. L. Sagendorph.....	355,889	Jan. 11	841	221	38	170
Roofing. Metallic.....	L. L. Sagendorph.....	358,888	Mar. 8	708	175	38	1039
Roofing. Metallic.....	L. L. Sagendorph.....	358,889	Mar. 8	709	175	38	1039
Roofing. Metallic.....	L. L. Sagendorph.....	362,118	May 3	93	29	39	491
Roofing. Metallic.....	A. Wightman.....	364,072	May 31	2849	739	39	1041

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Roofing. Metallic joint for felt and other.	J. D. Brown, Jr.	362,246	May 3	255	72	39	523
Roofing-plate or shingle. Metallic.	L. D. Cortright	358,595	Mar. 1	274	64	38	954
Roofing-plate or shingle. Metallic.	L. D. Cortright and S. P. Darlington.	359,958	Mar. 22	2296	{ 577 578	{ 38	1355
Roofing plate or shingle. Metallic.	L. D. Cortright and S. P. Darlington.	370,317	Sept. 20	1442	{ 386 387	{ 40	1321
Roofing-plate. Sheet-metal.	C. B. Cooper	372,787	Nov. 8	757	204	41	620
Roofing-plates. Die for metallic	W. M. Norcross	369,024	Aug. 30	2423	643	40	948
Roofing. Sheet-metal	J. A. Andrews	372,589	Nov. 1	449	121	41	555
Roofing. Sheet-metal	M. F. Kulp	374,126	Nov. 29	2759	741	41	1025
Root-extractor	R. L. Shaw	367,555	Aug. 2	292	83	40	506
Rope-clamp	W. B. Denithorne	361,932	Apr. 26	2212	574	39	436
Rope-clamp and tag-holder. Combined	P. Werum	373,506	Nov. 22	1872	497	41	846
Rope-coupler. Electric.	S. B. Stewart	361,731	Apr. 26	1920	498	39	382
Rope-coupling	A. Clark	368,378	Aug. 16	1501	400	40	754
Rope-fastening	C. A. Gloekler	373,183	Nov. 15	1370	363	41	740
Rope-hook	S. Wilson, Jr.	363,495	May 24	2020	527	39	879
Rope. Hook for fastening	W. A. Perry	371,475	Oct. 11	1042	271	41	212
Rope machine. Straw-	C. Stephens and C. A. Carter	369,479	Sept. 6	226	64	40	1076
Rope-making machine.	E. E. Pierce	365,094	June 21	1297	{ 343 344	{ 39	1346
Rope or cable coupling.	M. Garland	366,473	July 12	968	263	40	192
Rope or line clasp	A. L. Pitney	357,856	Feb. 15	1628	423	38	742
Rope or line clasp	A. L. Pitney	372,384	Nov. 1	151	44	41	498
Rope-securing device	S. Rowland	369,079	Aug. 30	2514	667	40	965
Rope-splice	A. G. Garfield	356,116	Jan. 18	1187	314	38	243
Rope-socket.	J. P. Smith	367,560	Aug. 2	296	84	40	507
Rope-trip.	H. Mapes	374,261	Dec. 6	126	32	41	1071
Ropes, &c., and preventing twisting or kinking thereof while being paid from a coil. Coiling	W. S. Sims	374,209	Dec. 6	57	15	41	1058
Ropes. Device for holding and splicing	L. B. Davies	372,970	Nov. 8	1036	277	41	670
Rose-engine	A. Schwitter	355,562	Jan. 4	350	93, 94	38	70
Rosette-engine. Automatic	E. A. Marsh	369,867	Sept. 13	774	{ 207 208	{ 40	1190
Rosettes. Constructing	E. Whitmore	363,929	May 31	2646	686	39	1001
Rotary cutter	E. Beecher	364,792	June 14	850	223	39	1254
Rotary cutter	W. Manley	374,417	Dec. 6	348	90	41	1112
Rotary cutter for wood-work	C. E. Zimmermann	360,794	Apr. 5	558	145	39	105
Rotary drier. Agitating	H. V. Reed	368,237	Aug. 16	1314	346	40	716
Rotary engine.	J. Arner	366,643	July 19	1232	{ 329 330	{ 40	251
Rotary engine.	G. Barr	367,177	July 26	1948	525	40	392
Rotary engine.	W. Berrenberg	371,662	Oct. 18	1305	{ 338 339	{ 41	273
Rotary engine.	J. Beystum	358,374	Feb. 22	2347	{ 623 624	{ 38	882
Rotary engine.	A. W. Billings	363,719	May 24	2348	{ 609 610	{ 39	940
Rotary engine.	L. Brown, Sr.	370,373	Sept. 27	1532	410	40	1346
Rotary engine.	L. F. Davoll	364,093	May 31	2875	745	39	1047
Rotary engine.	C. Dawson	360,565	Apr. 5	253	63	39	49
Rotary engine.	F. E. Decker	371,675	Oct. 18	1327	343	41	278
Rotary engine.	J. H. Dow	360,766	Apr. 5	525	{ 135 136	{ 39	98
Rotary engine.	J. Hills and F. Fitch.	364,925	June 14	1041	271	39	1289
Rotary engine.	H. Knebel	371,949	Oct. 25	1738	{ 449 450	{ 41	368
Rotary engine	E. H. Kruger	374,543	Dec. 6	544	{ 141 142	{ 41	1151
Rotary engine.	A. H. Lindsay	369,253	Aug. 30	2725	725	40	1008
Rotary engine.	H. S. Perkins.	361,447	Apr. 19	1512	{ 390 391	{ 39	297
Rotary engine.	L. A. Perrot and H. W. Warrington.	369,469	Sept. 6	217	61	40	1074
Rotary engine.	C. F. Sleigh and H. V. Smith	355,479	Jan. 4	244	64	38	49
Rotary engine.	C. M. Van Tine	362,194	May 3	185	56	39	510
Rotary engine.	E. Verstraete	356,384	Jan. 18	1557	409	38	313
Rotary meter	W. G. Kent	361,529	Apr. 19	1616	418	39	318
Rotary meter for gas	N. Johnston and A. B. Carll	373,406	Nov. 15	1709	452	41	803
Rotary shears	J. T. Duff	358,439	Mar. 1	21	7	38	907
Rotary steam-engine	T. Sheverick and L. J. Wynn	357,863	Feb. 15	1638	425	38	744
Rotary steam-engine	E. E. Thomas.	370,105	Sept. 20	1149	304	40	1265
Rotary steam-engine.	J. M. Whitney	357,648	Feb. 15	1324	{ 348 349	{ 38	686
Roundabout.	T. Blinkhorn	372,296	Nov. 1	15	5	41	473
Roundabout.	T. Blinkhorn and W. S. Key	371,412	Oct. 11	959	248	41	195
Roundabout.	W. Goodwin	356,037	Jan. 11	1059	278	38	214
Routing-machine.	G. K. Birge	360,081	Mar. 29	2507	638	38	1401
Routing-machine.	G. E. Lloyd	366,329	July 12	794	214	40	158
Routing-machine.	V. and J. Royle, Jr.	374,707	Dec. 13	767	{ 201 202	{ 41	1206
Rowing apparatus	W. L. De Graff	367,338	July 26	2196	590	40	438
Rowing-gear	R. E. Gleason	358,259	Feb. 22	2194	578	38	852
Rubber-band holder	W. A. Cooper	364,904	June 14	1011	265	39	1284
Rubber belting.	J. Murphy	355,834	Jan. 11	756	198	38	154
Rubber cloth. Machine for joining pieces of.	T. Hawley	371,315	Oct. 11	825	211	41	169
Rubber-coating machines. Knife for	T. H. Videto	371,155	Oct. 4	600	154	41	118
Rubber. Composition for cementing	H. Vogley	368,174	Aug. 9	1204	.....	40	688
Rubber, &c. Composition of matter as a substitute for hard	A. W. Serry	358,082	Feb. 22	1943	.....	38	806
Rubber. Composition of matter resembling	S. M. Allen	355,751	Jan. 11	632	.....	38	133
Rubber. Curing india-	C. M. Thompson and O. Lugo	359,907	Mar. 22	2213	.....	38	1340
Rubber-dam and tape holder	J. J. R. Patrick	373,683	Nov. 22	2128	570	41	897
Rubber-dam clamp.	O. Carpenter	371,669	Oct. 18	1315	341	41	276
Rubber-dam clamp.	H. H. Johnson	370,194	Sept. 20	1281	341	40	1291

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Rubber fabric. Gossamer	M. L. Derick	375,478	Dec. 27	1863	487	41	1433
Rubber. Manufacturing non-blooming vulcanized soft	F. Wilhöft	375,405	Dec. 27	1764		41	1413
Rubber. Recovering and utilizing waste	S. M. Allen	375,436	Dec. 27	1807	.....	41	1422
Rubber roll. Hard	F. Snyder	373,101	Nov. 15	1232	329	41	717
Rubber water-bottles. Stopper-cap for	E. M. Dart	362,206	May 3	205	61	39	513
Rubbers. Heel-plate for	W. E. Frank and P. Reidel	366,391	July 12	874	234	40	173
Rubbers. Heel-support for	H. M. Fisk	367,033	July 26	1746	470	40	355
Ruching for decorative purposes	E. A. Bohm	364,085	May 31	2864	743	39	1045
Rudder for boats	J. M. Sweeney	360,488	Apr. 5	133	32	39	25
Rudder for vessels. Auxiliary	G. B. Ulrichs	364,386	June 7	244	69	39	1135
Rudder. Jury	J. Wall	367,871	Aug. 9	775	209	40	607
Rudders. Device for steadying the heads of	H. Ramsay	359,177	Mar. 8	1079	281	38	1109
Rudders. Means for attaching and controlling jury	R. Fleming	361,277	Apr. 19	1281	329	39	255
Ruffles. Machine for making	F. Panse	364,369	June 7	221	62	39	1130
Rug	E. H. Eisenhart	359,563	Mar. 15	1561	399	38	1205
Rug-holder	S. A. Kilmer	363,399	May 24	1867	490	39	847
Rugs, &c. Machine for wrapping strips for use in the manufacture of	G. F. Brinkerhoff	374,448	Dec. 6	399	104	41	1121
Rule. Draftsman's	E. F. Wagner	360,545	Apr. 5	223	56	39	43
Rule. Lumber	J. M. Clifford	367,365	Aug. 2	17	4	40	454
Rule. Lumber	S. C. Hamilton, Jr.	372,673	Nov. 8	579	157	41	589
Rule. Measuring	S. Darling	371,741	Oct. 18	1430	369	41	300
Rule. Pocket	E. R. Billings	369,499	Sept. 6	249	70	40	1081
Rule. Pocket	R. R. Waddell	358,308	Feb. 22	2262	596	38	866
Rule. Tailor's	A. J. Wuerfel	364,620	June 7	576	155	39	1196
Rules. Manufacturing inlaid	T. Kundtz	369,723	Sept. 13	566	154	40	1151
Ruler	J. S. Mather	372,319	Nov. 1	51	15	41	481
Ruler	C. H. Westcott	370,668	Sept. 27	1974	523	40	1427
Ruler and calendar. Combined	A. S. Goodrich	365,916	July 5	227	60	40	44
Ruler and protractor. Combined parallel	H. S. Gay	374,955	Dec. 20	1153	302	41	1288
Ruler for sign-writers. Parallel	A. J. Walker	363,025	May 17	1368	362	39	742
Ruler. Nautical parallel	C. Wilson	375,590	Dec. 27	2021	525	41	1462
Ruler. Paper	G. M. Rees	371,362	Oct. 11	884	227	41	180
Ruler. Parallel	H. J. Eisen	374,462	Dec. 6	420	109	41	1126
Rulers. Protractor and circle-scribing attachment for	J. G. Smith	373,100	Nov. 15	1232	329	41	717
Ruling-machine	I. M. Brown	370,041	Sept. 20	1056	280	40	1249
Ruling-machine	E. Knapp	362,892	May 10	1172	313	39	698
Ruling-machine and printing-press. Combined	J. Dale	365,972	July 5	305	80, 81	40	58
Ruling-machine. Engraver's	F. L. Bailey	363,942	May 31	2664	{ 691 } { 692 }	{ 39 }	1004
Ruling tissue-paper	C. G. Mortimer	358,745	Mar. 1	476	117	38	992
Running-gear	G. S. Hefflon	362,077	May 3	34	10	39	479
Running-gear	C. F. Hornbeck	358,395	Feb. 22	2379	632	38	888
Saccharine liquids. Purifying, clarifying, and discoloring	R. Viterbo	364,615	June 7	571	.....	39	1195
Saccharine liquids, &c. Sheath for filtering-bags for	B. Muench	361,594	Apr. 19	1717	443	39	336
Sachet	E. E. Thorpe	361,098	Apr. 12	1014	256	39	194
Sack-tie	M. F. Carr	367,785	Aug. 9	666	179	40	585
Sacks. Machine for fastening	G. F. Helliwell	365,380	June 28	1725	446	39	1438
Sad-iron	J. Bennett	360,506	Apr. 5	160	40	39	31
Sad-iron	R. F. Klopp	366,670	July 19	1270	339	40	257
Sad-iron	G. J. and J. P. Murdock	356,881	Feb. 1	200	56	38	458
Sad-iron	S. Needles	367,225	July 26	2030	547	40	408
Sad-iron	G. S. Pierce and J. T. Snyder	365,095	June 21	1300	344	39	1346
Sad-iron	A. Rosa	369,556	Sept. 6	332	92	40	1097
Sad-iron	M. J. Shimer	375,389	Dec. 27	1743	457	41	1409
Sad-iron	N. R. Streeter	369,569	Sept. 6	354	98	40	1101
Sad-iron	T. E. Swann	371,227	Oct. 11	700	180	41	146
Sad-iron and fluting-iron. Combined self-heating	J. Egan	366,575	July 12	1126	{ 301 } { 302 }	{ 40 }	224
Sad-iron handle	N. L. Post	371,215	Oct. 11	685	176	41	143
Sad-iron heater	J. H. Watson	364,069	May 31	2844	738	39	1041
Sad-iron holder	J. H. Doyle	372,064	Oct. 25	1914	493	41	399
Sad-iron. Self-heating	W. and C. P. Kratz	368,954	Aug. 30	2331	620	40	930
Sad-irons. Lamp attachment for	H. C. Fox	359,016	Mar. 8	883	225	38	1072
Saddle	H. Stengel	363,487	May 24	2008	524	39	876
Saddle and pad. Harness	J. Fischer	371,442	Oct. 11	1001	260	41	204
Saddle and yoke. Combined cart	T. Ivey	375,162	Dec. 20	1450	379	41	1343
Saddle-bar	L. Rolleston	356,664	Jan. 25	1957	514	38	397
Saddle. Harness	H. Becker	363,882	May 31	2573	668	39	989
Saddle. Harness	W. D. Goodman and F. Tuttle	361,936	Apr. 26	2216	576	39	436
Saddle. Harness	G. B. Griggs	361,282	Apr. 19	1288	330	39	256
Saddle. Harness	R. W. Jones	359,078	Mar. 8	957	245	38	1086
Saddle. Harness	H. Leibe	368,773	Aug. 23	2071	549	40	871
Saddle. Harness	A. P. Waddell	360,256	Mar. 29	2782	707	38	1452
Saddle. Harness	M. E. Zeller	360,191	Mar. 29	2689	679	38	1434
Saddle pad. Harness	C. W. Rogers	368,115	Aug. 9	1122	298	40	672
Saddle. Riding	I. Bergman	362,707	May 10	910	248	39	650
Saddle. Riding	O. Laughlin and W. H. Thomas	370,266	Sept. 20	1372	368	40	1308
Saddle. Riding	P. J. Pefley	370,208	Sept. 20	1297	346	40	1294
Saddle. Spring	A. H. Quintero	359,176	Mar. 8	1078	280	38	1109
Saddle-tree and check-hook	D. W. Palmer	360,241	Mar. 29	2762	701	38	1448
Saddle-tree fork	R. Wines	357,297	Feb. 8	809	210	38	580
Saddle tree. Gig	A. F. Duvall	367,277	July 26	2100	567	40	421
Saddle tree. Harness	E. T. Covell	370,318	Sept. 20	1443	387	40	1322
Saddle tree. Harness	A. F. Duvall	368,913	Aug. 23	2268	603	40	909
Saddle tree. Harness	G. Theobald	368,862	Aug. 23	2193	{ 582 } { 583 }	{ 40 }	895
Saddle tree. Harness	S. E. Tompkins	359,234	Mar. 8	1165	303	38	1125
Saddle trees. Die for making harness	W. H. Bustin	358,801	Mar. 1	555	{ 138 } { 139 }	{ 38 }	1007
Saddle trees. Seat for harness	E. T. Covell	370,319	Sept. 20	1444	387	40	1322

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Saddles. Double loop and buckle for harness.....	W. F. Rice.....	372,331	Nov. 1	69	21	41	484
Safe.....	D. O. Paige.....	361,540	Apr. 19	1630	{ 422 423 }	{ 39 }	320
Safe. Bottle.....	D. Getleson.....	359,438	Mar. 15	1462	374	38	1187
Safe. Burglar-proof.....	J. Fischer.....	362,734	May 10	945	257	39	657
Safe for valuables. Portable.....	H. W. Woodruff.....	363,714	May 24	2342	608	39	939
Safe. Kitchen.....	S. Southworth.....	358,947	Mar. 8	785	198	38	1054
Safe-lock.....	J. C. Harris.....	364,922	June 14	1032	{ 270 271 }	{ 39 }	1288
Safe-lock. Electrical.....	C. J. Kintner.....	372,026	Oct. 25	1846	{ 478 479 }	{ 41 }	389
Safe-lock. Electrical.....	C. J. Kintner.....	372,028	Oct. 25	1857	480	41	390
Safe-lock. Electro-magnetic.....	C. J. Kintner.....	372,027	Oct. 25	1851	{ 479 480 }	{ 41 }	389
Safe or refrigerator. Pie.....	L. J. Holt.....	370,945	Oct. 4	307	75	41	61
Safe or vault.....	G. L. Remington.....	368,781	Aug. 23	2080	551	40	872
Safe, vault, &c.....	W. Corry.....	363,118	May 17	1495	{ 395 396 }	{ 39 }	767
Safe, vault, &c.....	W. Corry.....	364,753	June 14	772	205	39	1242
Safe. Wall.....	W. M. Dake.....	368,877	Aug. 23	2213	588	40	899
Safes and vaults. Operating mechanism for the doors of.....	H. Gross.....	370,472	Sept. 27	1685	448	40	1374
Safes, &c. Compound welded plate for burglar-proof.....	J. Farrel.....	365,300	June 21	1593	415	39	1400
Safes. Finishing and ornamenting.....	J. White.....	374,567	Dec. 6	577	.....	41	1158
Safes, vaults, &c. Bolt-work for the doors of.....	O. E. Pillard.....	356,547	Jan. 25	1785	465	38	363
Safety-deposit and similar boxes. Frame-work for.....	H. Gross.....	361,408	Apr. 19	1462	377	39	287
Safety-elevator.....	J. C. Souleyret.....	369,748	Sept. 13	593	161	40	1156
Safety-lock for switch-points.....	C. R. and H. Johnson.....	358,933	Mar. 8	769	192	38	1051
Safety-pin.....	H. C. Bailey.....	357,890	Feb. 15	1673	435	38	751
Safety-pin.....	H. C. Bailey and T. Porter.....	357,891	Feb. 15	1674	436	38	751
Safety-pin.....	D. A. Carpenter.....	360,276	Mar. 29	2814	715	38	1458
Safety-pin.....	D. A. Carpenter.....	363,208	May 17	1615	424	39	791
Safety-pin.....	J. Jenkins.....	355,535	Jan. 4	313	83	38	63
Safety-pin.....	J. Jenkins.....	365,075	June 21	1268	335	39	1341
Safety-pin.....	J. Jenkins.....	367,107	July 26	1857	501	40	375
Safety-pin.....	E. Huoncker.....	374,898	Dec. 13	1046	273	41	1260
Safety-pin.....	J. B. Nichols.....	361,886	Apr. 26	2155	559	39	424
Safety-pin.....	E. Pickhardt.....	362,780	May 10	1027	279	39	671
Safety-pin.....	E. Pickhardt.....	362,781	May 10	1028	279	39	671
Safety-pin and garment-supporter. Combined.....	W. L. Braddock.....	361,121	Apr. 12	1046	264	39	200
Safety-switch.....	N. E. Springsteen.....	364,970	June 14	1105	288	39	1301
Sail-boat.....	P. F. Gaughen.....	369,175	Aug. 30	2633	698	40	990
Sail for vessels.....	J. C. Wheeden.....	361,102	Apr. 12	1018	257	39	194
Sail for vessels.....	J. C. Wheeden.....	371,396	Oct. 11	938	241	41	190
Sail hank. Stay.....	J. O. Wikman.....	374,330	Dec. 6	228	61	41	1089
Sails. Anti-frictional leader for the sheets of.....	L. Dyer.....	375,696	Dec. 27	2179	567	41	1491
Sails. Furling top.....	W. T. Loveland.....	363,340	May 17	1791	469	39	824
Sails. Means for reefing.....	F. F. Martin.....	373,671	Nov. 22	2110	564	41	893
Sails. Reefing and furling.....	E. Poole.....	357,094	Feb. 1	498	132	38	514
Sal-ammoniac or flux skimmings. Treating.....	G. G. Convers.....	375,606	Dec. 27	2047	530	41	1466
Sale and delivery of prepaid articles. Apparatus for the automatic.....	W. P. Keeson.....	360,160	Mar. 29	2646	{ 668 669 }	{ 38 }	1425
Saline solutions. Apparatus for cooling.....	W. B. Cogswell.....	362,938	May 17	1241	330	39	717
Salt. Apparatus for the manufacture of.....	R. G. Peters.....	366,026	July 5	385	104	40	72
Salt-cellar.....	M. Thomson.....	374,508	Dec. 6	482	125	41	1139
Salt-grainers. Heating-tank for.....	H. L. Hildreth.....	362,834	May 10	1086	294	39	682
Salt from brine. Manufacturing.....	H. A. Hogel.....	371,503	Oct. 11	1086	282	41	221
Salt. Manufacture of.....	J. H. Duncan.....	368,881	Aug. 23	2216	589	40	900
Salt rolls. Machine for compressing.....	J. Macdonald.....	366,175	July 5	575	154	40	108
Salt. Separating sand-scale, hard pan-scale, and other impurities from.....	T. Higgin.....	364,587	June 7	540	145	39	1190
Salts of tetrazo-diphenyl and the naphthylamines. Combination of the.....	P. Böttiger.....	365,667	June 28	2151	.....	39	1519
Salter. Stock.....	T. Ferguson.....	361,621	Apr. 19	1756	455	39	343
Salter. Stock.....	E. J. Nichols.....	368,161	Aug. 9	1184	316	40	684
Salting live stock. Device for.....	J. Babcock.....	369,155	Aug. 30	2605	{ 691 692 }	{ 40 }	984
Salve.....	P. L. J. Schaefer.....	370,823	Oct. 4	97	.....	41	21
Sample or exhibition box.....	G. A. Bisler.....	355,914	Jan. 11	881	231	38	179
Sampling apparatus.....	W. Jones.....	359,158	Mar. 8	1058	275	38	1106
Sand-blast apparatus.....	J. B. Stone and F. W. Hindson.....	370,987	Oct. 4	380	94, 95	41	75
Sand-drier.....	W. H. Thomas and E. M. Roberts.....	368,500	Aug. 16	1690	450	40	789
Sand. Machine for screening and moistening molding.....	G. Guntz.....	368,333	Aug. 16	1444	383	40	742
Sand molds. Core-guide for.....	C. Herman.....	363,138	May 17	1518	402	39	772
Sand molds. Device for forming beads in.....	C. B. Isbester.....	368,719	Aug. 23	2003	530	40	857
Sand molds. Device for forming beads in.....	C. B. Isbester.....	373,664	Nov. 22	2102	562	41	891
Sand-paper head.....	J. Davis.....	361,399	Apr. 19	1447	374	39	285
Sand-paper. Utilizing refuse.....	D. Mathews.....	356,487	Jan. 25	1710	.....	38	349
Sandpapering-machine.....	G. L. Knauss.....	366,009	July 5	358	96, 97	40	68
Sand-sifting machine.....	J. J. Carr.....	368,872	Aug. 23	2204	586	40	898
Sanitary closet. Bedroom.....	C. Memmert.....	364,430	June 7	313	85	39	1147
Sash and frame. Window.....	R. H. Daley.....	367,506	Aug. 2	225	65	40	495
Sash and frame. Window.....	H. Jahn.....	374,793	Dec. 13	892	233	41	1230
Sash and shutter fastener. Combined.....	H. H. Wesler.....	364,456	June 7	357	98	39	1156
Sash attachment.....	R. Schenck.....	364,965	June 14	1100	286	39	1300
Sash-balance.....	C. H. Ames.....	370,302	Sept. 20	1418	381	40	1317
Sash-balance.....	J. Bastian.....	375,252	Dec. 20	1561	409	41	1366
Sash-balance.....	J. Cooney.....	364,486	June 7	397	108	39	1163
Sash-balance.....	J. D. Hess.....	360,297	Mar. 29	2844	724	38	1464
Sash-balance.....	F. R. Hunt.....	370,334	Sept. 20	1463	393	40	1326
Sash-balance.....	A. Peck.....	367,439	Aug. 2	109	30	40	472
Sash-balance.....	S. H. Radford.....	358,070	Feb. 22	1929	509	38	804
Sash-balance.....	W. E. Sandford.....	362,185	May 3	175	52	39	508

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Sash-balance	C. Tegen	359,108	Mar. 8	1001	258	38	1095
Sash-balancing device	A. G. Johnson	357,204	Feb. 8	686	177	38	557
Sash-cord fastener	A. Hampe	367,206	July 26	1987	537	40	400
Sash-cord fastener	C. Herby	367,100	July 26	1850	499	40	374
Sash-cord fastener	J. Rodgers	373,485	Nov. 22	1832	488	41	839
Sash-cord fastener	T. Vollten	365,654	June 28	2132	557	39	1517
Sash-cord guide	W. T. Kellogg	371,947	Oct. 25	1736	449	41	368
Sash-cord guide	S. Palmer	370,647	Sept. 27	1946	515	40	1422
Sash-cord guide	F. V. Phillips	374,158	Nov. 29	2803	752	41	1033
Sash-fastener	W. W. Abbott	374,108	Nov. 29	2735	734	41	1022
Sash-fastener	W. R. Abrams	362,239	May 3	247	70	39	521
Sash-fastener	W. R. Abrams	370,229	Sept. 20	1323	353	40	1298
Sash-fastener	A. H. Adams	362,866	May 10	1130	304	39	690
Sash-fastener	E. W. Allen	361,109	Apr. 12	1024	259	39	196
Sash-fastener	G. L. Barnes	366,756	July 19	1389	372	40	279
Sash-fastener	T. Beecher	375,528	Dec. 27	1924	504	41	1445
Sash-fastener	F. J. Biggs and S. Pardoe	370,526	Sept. 27	1765	470	40	1387
Sash-fastener	J. Brady	370,235	Sept. 20	1330	355	40	1300
Sash-fastener	G. W. Brown	368,646	Aug. 23	1881	502	40	835
Sash-fastener	A. P. Butts	362,931	May 17	1231	328	39	716
Sash-fastener	E. C. Byam	367,132	July 26	1891	512	40	381
Sash-fastener	F. M. Case	360,417	Apr. 5	22	7	39	6
Sash-fastener	J. Chantrell	359,058	Mar. 8	934	238	38	1082
Sash-fastener	J. Chantrell	362,936	May 17	1238	329	39	717
Sash-fastener	W. P. Dodson	368,997	Aug. 30	2391	635	40	942
Sash-fastener	D. M. Ferren	362,152	May 3	137	40	39	500
Sash-fastener	B. Gantenberg	365,679	June 28	2166	565	39	1522
Sash-fastener	A. F. Garrood	362,209	May 3	208	62	39	513
Sash-fastener	J. Hofman	355,450	Jan. 4	202	54	38	41
Sash-fastener	W. C. Johnson	373,985	Nov. 29	2558	687 688	41	986
Sash-fastener	W. H. King	368,595	Aug. 23	1814	483	40	822
Sash-fastener	J. T. Lister	373,143	Nov. 15	1298	345	41	729
Sash-fastener	F. D. Livingstone	356,143	Jan. 18	1222	324	38	249
Sash-fastener	J. B. Marshall	356,255	Jan. 18	1367	361	38	277
Sash-fastener	L. C. Matteson	359,086	Mar. 8	967	248	38	1088
Sash-fastener	N. B. McGrath and J. H. Pierce	373,993	Nov. 29	2569	690	41	988
Sash-fastener	F. W. Mix	359,274	Mar. 15	1219	318	38	1143
Sash-fastener	W. F. Morse	368,960	Aug. 30	2339	622	40	932
Sash-fastener	J. F. Pool	368,004	Aug. 9	979	263	40	645
Sash-fastener	W. J. Potter	361,077	Apr. 12	984	249	39	188
Sash-fastener	F. H. Richards and E. Kempshall	370,891	Oct. 4	219	55, 56	41	43
Sash-fastener	A. Rippien	368,240	Aug. 16	1318	347	40	717
Sash-fastener	A. Rippien	370,560	Sept. 27	1813	482	40	1397
Sash-fastener	E. D. Rockwell	358,409	Feb. 22	2397	638	38	891
Sash-fastener	R. Schenck	362,668	May 10	857	234	39	640
Sash-fastener	J. H. Shaw	369,885	Sept. 13	805	214	40	1196
Sash-fastener	J. H. Shaw	375,656	Dec. 27	2117	550	41	1479
Sash-fastener	E. Sherwood	359,183	Mar. 8	1086	283	38	1111
Sash-fastener	T. F. Timby	360,064	Mar. 29	2482	631	38	1397
Sash-fastener	W. Tweeddale	372,645	Nov. 1	535	146	41	573
Sash-fastener	W. H. Weddington	369,670	Sept. 6	498	137	40	1130
Sash-fastener	F. O. Weydell	369,418	Sept. 6	148	43	40	1060
Sash-fastener	C. S. Whipple	362,131	May 3	108	33	39	494
Sash-fastener	J. White and G. Thomas	356,182	Jan. 18	1270	335	38	258
Sash-fastener	E. J. Whitman	372,349	Nov. 1	97	28	41	489
Sash-fastener	J. E. Woll	369,146	Aug. 30	2594	639	40	982
Sash-fastening	S. P. Crosswell, 2d.	356,190	Jan. 18	1280	338	38	259
Sash-fastening device	F. Wilcox	359,119	Mar. 8	1012	261	38	1097
Sash-holder	A. T. Church	357,578	Feb. 15	1223	322	38	668
Sash-holder	C. W. Cook	373,726	Nov. 22	2187	585	41	908
Sash-holder	A. J. Davis	361,864	Apr. 26	2121	550	39	418
Sash-holder	I. B. Edington	371,560	Oct. 18	1164	303	41	245
Sash-holder	M. V. B. Euans	374,867	Dec. 13	997	260	41	1250
Sash-holder	C. P. Gay	373,824	Nov. 29	2334	626	41	943
Sash-holder	J. F. Hambitzer	373,657	Nov. 22	2094	560	41	889
Sash-holder	J. H. Haughwout and W. S. Hogo- boom.	366,723	July 19	1344	359	40	271
Sash-holder	F. H. Jury	374,256	Dec. 6	121	31	41	1070
Sash-holder	G. H. Noble	355,835	Jan. 11	756	199	38	154
Sash-holder	G. B. Rowlett	368,010	Aug. 9	986	265	40	647
Sash-holder	R. L. Stopfer	372,827	Nov. 8	827	221	41	632
Sash-holder	W. Walton	360,331	Apr. 5	341	85	39	65
Sash-holding device	W. A. Swift	356,177	Jan. 18	1267	334	38	257
Sash-lift	E. C. Byam	363,726	May 24	2358	612	39	942
Sash-lock	D. B. Hart	360,015	Mar. 29	2397	607	38	1381
Sash or screen in the window-frame. Means for se- curing a	S. R. Deacon	375,344	Dec. 27	1687	443	41	1398
Sash. Reversible window	P. Adelson and L. Proll	355,905	Jan. 11	871	228	38	177
Sash. Window	D. W. Clarke	370,930	Oct. 4	288	70	41	57
Sash-weight	L. C. Matteson	369,952	Sept. 13	908	242	40	1214
Sash-weight	J. Pinnell	360,472	Apr. 5	105	27	39	21
Sash-weights. Apparatus for forming lead	C. E. Heiss	362,623	May 10	789	217	39	627
Sash-weights. Metal mold for	C. E. Stevens	356,736	Jan. 25	2052	539	38	413
Sash. Window	T. A. Sweet	357,246	Feb. 8	737	191	38	566
Satchel	H. and I. Scheuer	369,472	Sept. 6	220	62	40	1075
Satchel-bottom bag	J. L. Havlin	363,232	May 17	1643	432	39	796
Satchel or traveling-bag	C. Oswald	365,622	June 28	2082	543	39	1508
Satchels, &c. Fastening for	A. Goertz	355,987	Jan. 11	991	261	38	201
Satchels, purses, bags, &c. Frame for	C. Dietsch and C. G. Pfingsten	368,878	Aug. 23	2214	589	40	899
Satchels, &c. Spring side catch for	R. W. Chapman	375,340	Dec. 27	1679	441 442	41	1397
Sausage-stuffing machine	G. B. Fisher	359,144	Mar. 8	1041	270	38	1103
Sausage-stuffing machines. Mechanism for operating	G. A. Hoffmann	359,971	Mar. 22	2318	583	38	1359

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Saw	A. Boynton	373,717	Nov. 22	2174	581	41	905
Saw	E. M. Boynton	373,581	Nov. 22	1983	527	41	865
Saw	T. S. Disston	367,605	Aug. 2	363	103	40	521
Saw	J. E. Emerson	358,772	Mar. 1	512	126	38	998
Saw	D. R. Proctor	361,238	Apr. 12	1232	313	39	234
Saw	J. J. Ralya	364,131	May 31	2937	763	39	1058
Saw	W. Ward	364,787	June 14	844	221	39	1252
Saw and planer. Combined	H. F. Burkhardt	359,497	Mar. 15	1553	397	38	1204
Saw blades. Machine for straightening, tempering, and flattening band	J. E. Emerson	370,689	Sept. 27	2010	535	40	1434
Saw-buck	B. A. French	371,188	Oct. 11	648	166	41	136
Saw-buck	C. B. Guy	363,741	May 24	2377	617	39	945
Saw. Buck	J. F. French	375,061	Dec. 20	1297	338	41	1313
Saw. Buck	S. Walter	368,632	Aug. 23	1866	498	40	832
Saw-buck. Adjustable	H. E. Moriarty	366,017	July 5	374	101	40	70
Saw-buck and drag-saw. Combined	J. E. Nitsche and A. Kowalewsky	359,936	Mar. 22	2260	568	38	1348
Saw. Copping	C. Morrow	355,704	Jan. 11	561	147	38	120
Saw. Cutting-off	A. M. Eastman and J. R. Thomas	371,676	Oct. 18	1328	343	41	278
Saw. Drag	M. and G. E. Cox	361,052	Apr. 12	948	239	39	180
Saw. Drag	J. Dohm	363,733	May 24	2366	615	39	944
Saw. Drag	S. Hershey	360,018	Mar. 29	2401	607 608	38	1382
Saw. Drag	D. M. Omwake and W. P. McGee	355,708	Jan. 11	566	148	38	121
Saw. Drag	F. N. Pepperling	374,994	Dec. 20	1208	314	41	1297
Saw. Drag	A. Reichert	355,623	Jan. 4	425	117	38	84
Saw. Drag	P. Thurman	366,899	July 19	1575	421	40	314
Saw-file guide	J. Schaeffer	356,082	Jan. 11	1128	298	38	226
Saw filer and gummer. Rotary	I. H. Palmer	358,217	Feb. 22	2139	564	38	842
Saw-filing attachment	W. Cook	372,456	Nov. 1	254	70	41	518
Saw-filing device	O. J. Marsh	373,148	Nov. 15	1317	349	41	731
Saw-filing clamp	W. Hertz	365,381	June 28	1726	447	39	1438
Saw-filing machine	P. H. Gendron	361,757	Apr. 26	1957	510	39	388
Saw-filing machine	D. Harrington	367,756	Aug. 2	608	164 165	40	565
Saw-filing machine	R. Nolen, R. W. Bishop, and J. Waltemeyer	357,091	Feb. 1	494	131	38	513
Saw-filing machine	E. J. Richmond	372,766	Nov. 8	710	196	41	613
Saw-filing machine	J. Sattes	364,442	June 7	333	92	39	1152
Saw-filing machine	J. H. Sodee	367,561	Aug. 2	297	84, 85	40	507
Saw frame. Hack	L. L. Davis	371,438	Oct. 11	997	259	41	203
Saw-gage	E. S. Nixon	375,187	Dec. 20	1479	387	41	1350
Saw-guide	D. Harris	360,878	Apr. 12	688	180	39	135
Saw-guide	J. W. Maxwell	357,678	Feb. 15	1368	360	38	693
Saw-guide	D. J. Murray	355,707	Jan. 11	565	148	38	120
Saw guide. Band	M. F. Larsh	365,441	June 28	1813	472	39	1454
Saw guide. Band	J. Ryan	373,786	Nov. 22	2270	609	41	922
Saw-gummer	L. J. Grant	370,536	Sept. 27	1779	475	40	1390
Saw-gummer	E. Rogers	357,336	Feb. 8	856	224	38	589
Saw gummer and die therefor. Gin	T. H. Nance	374,692	Dec. 13	743	195 196	41	1201
Saw gummer and sharpener	A. C. Eidelbach	357,913	Feb. 15	1699	443	38	756
Saw-gumming machine	T. H. Nance	358,874	Mar. 8	684	170	38	1034
Saw-hammering machine	W. Gowen	372,667	Nov. 8	568	155 156	41	587
Saw-hammering machine	W. Gowen	372,668	Nov. 8	572	156	41	587
Saw-hammering machine	W. Gowen	372,669	Nov. 8	573	156	41	588
Saw-hammering machine	W. Gowen	372,670	Nov. 8	575	156 157	41	588
Saw. Hand	W. H. Dillon	362,726	May 10	937	256	39	655
Saw-handle	C. W. Boynton	356,820	Feb. 1	106	30	38	443
Saw-handle	W. R. Towse	364,452	June 7	351	96	39	1155
Saw handle. Crosscut	C. Richardson	364,672	June 14	650	174	39	1219
Saw-horse	F. M. Clark	368,192	Aug. 16	1237	330	40	702
Saw-jointer, saw-set, and gage. Combined	J. H. Sodee	370,661	Sept. 27	1966	520	40	1426
Saw-level and set-gage	J. Beaulieu	365,163	June 21	1400	369	39	1364
Saw machine. Drag	C. W. Wright	373,260	Nov. 15	1481	391	41	761
Saw. Marble or granite	E. W. Kent	372,679	Nov. 8	585	159	41	590
Saw mill. Band	J. E. Emerson	356,930	Feb. 1	257	71	38	469
Saw mill. Band	M. Garland	356,035	Jan. 11	1053	277	38	213
Saw mill. Band	J. W. Maxwell	357,679	Feb. 15	1370	361	38	694
Saw mill. Band	J. W. Maxwell	357,681	Feb. 15	1374	361 362	38	695
Saw mill. Band	D. C. Prescott	368,731	Aug. 23	2017	535	40	860
Saw mill. Band	D. C. Prescott	369,881	Sept. 13	798	213	40	1194
Saw mill. Band	D. D. Williams and J. D. Wilson	362,410	May 3	471	130 131	39	567
Saw-mill carriage	W. Gowen	369,518	Sept. 6	277	77	40	1086
Saw-mill carriages. Feed mechanism for	J. W. Emerson and A. C. Starbird	369,781	Sept. 13	637	172 173	40	1164
Saw-mill carriages. Feed mechanism for	A. E. Hoffman	370,944	Oct. 4	304	74, 75	41	60
Saw-mill carriages. Feed mechanism for	N. Hoffman	359,076	Mar. 8	954	243	38	1085
Saw-mill carriages. Feed mechanism for	E. T. Lemm	361,068	Apr. 12	969	245	39	184
Saw-mill carriages. Feed mechanism for	A. F. Radant	367,235	July 26	2043	550 551	40	411
Saw-mill carriages. Offset for	C. E. Cleveland and J. Hanson	369,982	Sept. 13	959	253	40	1223
Saw-mill carriages. Offsetting device for	G. M. Hinkley	368,669	Aug. 23	1916	510	40	842
Saw-mill carriages. Steam-feed mechanism for	W. E. Hill	370,058	Sept. 20	1079	285	40	1253
Saw mill. Combined band and circular	E. W. Turner and J. Reynolds	358,003	Feb. 15	1826	480 481	38	779
Saw-mill dog	J. Ackerman and J. C. Blair	365,661	June 28	2142	559	39	1518
Saw-mill dog	H. T. Basim	360,268	Mar. 29	2803	713	38	1456
Saw-mill dog	S. W. Cole	371,552	Oct. 18	1155	301	41	243
Saw-mill dog	W. Gowen	369,517	Sept. 6	275	76, 77	40	1086
Saw-mill dog	A. B. Landis	363,831	May 31	2507	651	39	976

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Saw-mill dog	T. Manley	358,159	Feb. 22	2059	542	38	826
Saw-mill dog	W. L. Raynes	371,786	Oct. 18	1494	385	41	312
Saw-mill feed mechanism	H. T. Basim	360,267	Mar. 29	2801	712	38	1455
Saw-mill feed mechanism	A. B. Landis	357,087	Feb. 1	485	129	38	512
Saw mill. Reciprocating	W. M. Wilkin. (Reissue)	10,882	Nov. 15	1738	{ 458 459 }	{ 41	809
Saw-mill refuse. Conveyer for	E. L. Hospes and L. N. Bergeron	367,102	July 26	1852	500	40	374
Saw-mill set-works	P. S. Kingsland	365,478	June 28	1863	484	39	1464
Saw-mill set-works	J. J. Kirby	360,305	Mar. 29	2851	726	38	1465
Saw-mill set-works	A. B. Landis	359,264	Mar. 15	1203	314	38	1140
Saw-mill set-works	W. F. Parish	373,476	Nov. 22	1814	{ 482 483 484 }	{ 41	836
Saw-mill set-works	D. C. Prescott	368,730	Aug. 23	2015	534	40	860
Saw-mill set-works	W. L. Raynes	357,032	Feb. 1	405	109	38	497
Saw-mill set-works	C. J. Rinderknecht	370,413	Sept. 27	1589	{ 424 425 }	{ 40	1357
Saw-mill set-works	A. E. Roe and D. L. Harback	366,795	July 19	1437	384	40	288
Saw-mill set-works	M. J. Shaw	361,092	Apr. 12	1006	254	39	192
Saw-mill set-works	W. B. Willet	374,511	Dec. 6	486	126	41	1139
Saw-mills. Adjustable carriage for	G. Strong	358,899	Mar. 8	725	179	38	1042
Saw-mills. Carriage feed mechanism for	A. Cunningham	357,582	Feb. 15	1228	323	38	669
Saw-mills. Feed and pressure mechanism for	D. C. Prescott	363,169	May 17	1563	412	39	781
Saw-mills. Roller-gage for	S. G. Lang	372,809	Nov. 8	806	216	41	629
Saw mills. Saw-catcher for band	G. H. Zschech	356,220	Jan. 18	1323	349	38	268
Saw mills. Slide-block for reciprocating	E. Haake	374,285	Dec. 20	1600	420	41	1373
Saw-mills. Steam-feed for	D. C. Prescott	360,972	Apr. 12	828	{ 212 213 }	{ 39	159
Saw. Scroll	W. M. Moore	360,813	Apr. 5	586	153	39	110
Saw-set	H. Flater and A. L. Davis	356,460	Jan. 25	1666	436	38	341
Saw-set	C. C. Harris	355,692	Jan. 11	543	143	38	116
Saw-set	C. F. Leopold	371,268	Oct. 11	758	195	41	157
Saw-set	C. Morrill	375,088	Dec. 20	1343	350	41	1322
Saw-setting device	J. M. Flower	361,278	Apr. 19	1282	329	39	255
Saw-setting device	T. Richards	362,181	May 3	172	51	39	507
Saw-setting machine	J. C. Ballew	374,032	Nov. 29	2621	{ 703 704 }	{ 41	999
Saw-setting machine	A. Schnoor	363,854	May 31	2538	660	39	982
Saw-setting tool	E. S. Hotchkiss	360,882	Apr. 12	694	182	39	136
Saw-sharpener. Rotary	R. Gaskin	360,679	Apr. 5	402	{ 102 103 }	{ 39	75
Saw sharpening and gumming machine	G. P. Saltenberer	374,758	Dec. 13	839	220	41	1220
Saw-sharpener machine	M. Covell	359,133	Mar. 8	1027	{ 266 267 }	{ 38	1100
Saw-sharpener machine	S. A. Gould	365,337	June 21	1646	{ 429 430 }	{ 39	1411
Saw-sharpener machine. Gin	W. Behan and P. Friensehner	365,567	June 28	2006	523	39	1493
Saw. Stereotyper's	G. E. Lloyd	375,369	Dec. 27	1717	450	41	1404
Saw support and guide. Drag	J. R. Van Winkle	359,042	Mar. 8	912	232	38	1077
Saw-swaging machine	W. G. Baumgardner	355,912	Jan. 11	878	230	38	178
Saw-swaging machine	C. Campbell	355,379	Jan. 4	113	31	38	24
Saw-swaging machine	T. Crebbin	360,420	Apr. 5	25	8	39	7
Saw-swaging machine	J. A. Crossman and N. C. Buch	363,730	May 24	2361	613	39	943
Saw-swaging machine	G. M. Hinkley	373,740	Nov. 22	2203	{ 589 590 }	{ 41	911
Saw-swaging machine	B. H. Miller	370,367	Sept. 20	1519	{ 406 407 }	{ 40	1336
Saw. Swing	J. Martin	370,962	Oct. 4	335	83	41	66
Saw-table gage	H. A. Wolfram	361,605	Apr. 19	1730	447	39	338
Saw-teeth. Device for swaging insertible	N. H. Wheeler and N. M. Newhouse	364,877	June 14	973	255	39	1277
Saw tempering and straightening machine	E. C. Atkins	363,271	May 17	1694	444	39	807
Saw tempering and straightening machine	A. Maehlen	363,296	May 17	1729	453	39	813
Saw-tooth	E. Andrews	369,222	Aug. 30	2688	714	40	1001
Saw-tooth	J. Cameron and C. H. Allen	365,363	June 28	1685	439	39	1431
Saw-tooth. Adjustable	J. C. Dalton	361,142	Apr. 12	1083	274	39	206
Saw-tooth dresser	J. Hadden	375,623	Dec. 27	2069	538	41	1470
Saw-tooth. Removable	J. Class	369,919	Sept. 13	856	226	40	1205
Saw-tooth. Reversible	R. J. Bole	374,821	Dec. 13	934	243	41	1238
Saw-tooth. Reversible	J. E. Emerson	368,999	Aug. 30	2394	636	40	942
Saw-tooth swage	D. G. Hadley	357,595	Feb. 15	1216	328	38	673
Saw-tooth-swaging device	J. A. Shull	357,866	Feb. 15	1642	427	38	745
Saw-tooth-swaging machine	S. A. Parke	358,068	Feb. 22	1926	508	38	803
Saw trimmer. Two-	W. F. Parish	369,026	Aug. 30	2427	{ 644 645 }	{ 40	949
Saw wheel. Band	D. K. Allington	365,037	June 21	1207	319	39	1331
Saw wheel. Band	G. H. Zschech	359,989	Mar. 22	2340	588	38	1363
Saws. Adjustable guide for band	C. Gail	356,462	Jan. 25	1668	437	38	341
Saws. Apparatus for removing gum from	J. C. Ballew	358,323	Feb. 22	2280	602	38	869
Saws. Combined jointer and side-dresser for	H. W. Georgia	366,215	July 12	638	173	40	128
Saws. Device for dressing the teeth of	G. W. Cutshaw	356,059	Jan. 11	10-7	285	38	219
Saws. Device for dressing the teeth of	R. E. Poindexter	375,650	Dec. 27	2107	548	41	1478
Saws. Device for jointing the teeth of	H. Flater	355,307	Jan. 4	20	6	38	6
Saws. Device for sharpening	J. W. Boughton and J. M. Snidow	361,485	Apr. 19	1560	405	39	307
Saws. Device for swaging and jointing	M. Covell	359,134	Mar. 8	1029	267	38	1101
Saws. Feed-roll for gang	W. Harvey	358,550	Mar. 1	206	48	38	941
Saws. File for band	J. E. Emerson	358,026	Feb. 22	1855	490	38	790
Saws. Machine for milling the ends of band	J. L. Fowle	369,930	Sept. 13	878	{ 232 233 }	{ 40	1209
Saws. Machine for sharpening circular	N. P. Mix and C. F. Marvin	364,185	May 31	3012	{ 781 782 783 }	{ 39	1072
Saws. Machine for straightening and truing band	J. E. Emerson	356,931	Feb. 1	258	71	38	469
Saws. Mounting diamonds on	J. W. Maloy	364,835	June 14	911	241	39	1266

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Saws. Uniting the ends of band-	C. Miller.....	361,536	Apr. 19	1625	421	39	320
Sawdust-carrier.....	C. A. T. Day.....	360,762	Apr. 5	516	133	39	97
Sawing and grinding machine.....	T. E. Goodwin.....	356,583	Jan. 25	1840	{ 482 483 }	{ 38 38 }	374
Sawing-machine.....	A. W. Carter.....	367,958	Aug. 9	910	246	40	632
Sawing-machine.....	A. F. Gillet.....	362,270	May 3	231	78. 79	39	528
Sawing-machine.....	N. Naudey.....	371,211	Oct. 11	676	{ 173 174 }	{ 41 41 }	142
Sawing-machine. Band.....	J. R. Thomas.....	373,031	Nov. 8	1135	{ 303 304 }	{ 41 41 }	686
Sawing machine. Circular.....	D. Arkin.....	371,914	Oct. 25	1691	438	41	359
Sawing machine. Circular.....	E. S. Collins.....	355,589	Jan. 4	381	102	38	77
Sawing machine. Circular.....	H. M. Darling.....	357,182	Feb. 8	655	170	38	551
Sawing machine. Circular.....	C. F. Gerlach.....	372,904	Nov. 8	937	253	41	652
Sawing machine. Circular.....	C. Glade.....	365,512	June 28	1921	{ 499 500 }	{ 39 39 }	1476
Sawing machine. Circular.....	E. D. Mackintosh.....	366,633	July 12	1212	324	40	240
Sawing machine. Circular.....	D. R. Proctor.....	368,618	Aug. 23	1845	493	40	828
Sawing machine. Circular.....	J. R. Strickland.....	367,864	Aug. 9	768	207	40	606
Sawing machine. Circular.....	C. J. Sturgeon.....	358,173	Feb. 22	2080	547	38	830
Sawing machine. Circular.....	S. A. Woods.....	364,328	June 7	161	15. 46	39	1119
Sawing machine. Metal.....	G. C. Lucas.....	371,466	Oct. 11	1030	268	41	209
Sawing-machine. Portable.....	E. Beghtel.....	374,573	Dec. 13	587	153	41	1169
Sawing-machine. Portable.....	P. R. Gottstein.....	365,917	July 5	227	60. 61	40	44
Sawing machine. Rail.....	E. C. Smith.....	367,167	July 26	1937	523	40	390
Sawing machine. Rail.....	E. C. Smith and S. W. Balch.....	365,026	June 14	1183	{ 310 311 }	{ 39 39 }	1315
Sawing machine. Scroll.....	H. L. Beach.....	356,186	Jan. 18	1276	337	38	259
Sawing machine. Scroll.....	J. W. Maxwell.....	357,680	Feb. 15	1372	361	38	694
Sawing machine. Scroll.....	M. D. Wischker.....	361,800	Apr. 26	2032	526	39	399
Sawing machine. Stump.....	F. M. Carnahan.....	363,588	May 24	2153	553	39	904
Sawing machine. Wood.....	I. H. Bertram.....	368,181	Aug. 16	1222	327	40	699
Sawing-machines. Brake mechanism for.....	E. Fischer.....	371,533	Oct. 11	1123	292	41	228
Sawing machines. Feeding device for circular.....	D. S. Abbott.....	362,921	May 17	1217	325	39	713
Sawing machines. Gage attachment for scroll.....	F. R. Schloer.....	373,686	Nov. 22	2134	572	41	897
Sawing, molding, and turning machine. Combined.....	E. W. Snedeker.....	373,493	Nov. 22	1842	{ 491 492 }	{ 41 41 }	841
Sawing out twisted stair-railings. Machine for.....	J. E. Brown.....	368,993	Aug. 30	2385	634	40	941
Sawing wooden gutters. Machine for.....	E. E. Elder.....	356,280	Jan. 18	1404	371	38	284
Scaffold-bracket.....	W. H. Higgins.....	362,747	May 10	970	263	39	661
Scaffold-bracket.....	M. Ramsey.....	363,483	May 24	2002	{ 522 523 }	{ 39 39 }	875
Scaffold. Portable.....	A. Lapointe.....	374,481	Dec. 6	445	115	41	1131
Scaffold-support. Adjustable.....	J. Richstine.....	371,279	Oct. 11	771	198	41	159
Scaffolds. Shield for bearing-bars of painters.....	M. F. Smith.....	363,179	May 17	1576	415	39	784
Scaffolding.....	W. S. Welch.....	374,510	Dec. 6	484	126	41	1139
Scale. Automatic grain.....	S. Case.....	370,316	Sept. 20	1440	{ 385 386 }	{ 40 40 }	1321
Scale. Automatic grain.....	H. L. Earle.....	369,698	Sept. 13	534	148	40	1146
Scale. Automatic grain.....	B. R. Foster.....	368,662	Aug. 23	1904	507	40	839
Scale. Automatic grain.....	P. O. Pederson.....	362,992	May 17	1315	{ 348 349 }	{ 39 39 }	731
Scale. Automatic grain.....	R. F. Rice and A. M. Trude.....	360,820	Apr. 5	596	{ 156 157 }	{ 39 39 }	112
Scale. Automatic grain.....	H. H. Riepen.....	363,766	May 24	2412	625	39	952
Scale. Automatic grain.....	K. H. Schaper.....	364,964	June 14	1098	286	39	1300
Scale. Automatic grain-weighing.....	H. Cutler.....	375,267	Dec. 20	1579	{ 413 414 }	{ 41 41 }	1369
Scale. Automatic weighing.....	W. R. Smith.....	375,102	Dec. 20	1363	{ 355 356 }	{ 41 41 }	1326
Scale-beam.....	F. M. Ferrell.....	357,658	Feb. 15	1342	353	38	689
Scale-beam and weight. Registering and recording.....	E. G. Fisher.....	371,831	Oct. 18	1559	403	41	325
Scale-beam latches. Device for disengaging.....	E. O. Deming.....	365,170	June 21	1409	371	39	1366
Scale. Coin-operated electrical weighing.....	W. R. Smith and A. L. Washburn.....	365,353	June 21	1670	436	39	1416
Scale. Coin-operated electrical weighing.....	E. R. Whitney.....	371,869	Oct. 18	1620	418	41	337
Scale. Electrical weighing.....	W. M. Hunt.....	356,940	Feb. 1	270	75	38	471
Scale for ascertaining the percentage of impurity in grain, &c. Weighing.....	S. H. Stevens.....	359,187	Mar. 8	1090	284	38	1112
Scale for indicating the butter value of milk and cream.....	G. W. Burchard.....	362,816	May 10	1064	289	39	678
Scale. Grain-weighing.....	C. A. Lieb.....	363,840	Aug. 23	2162	573	40	888
Scale. Letter.....	A. C. Both.....	371,920	Oct. 25	1699	440	41	361
Scale-measure and spirit-level. Combined.....	T. H. Bates.....	373,715	Nov. 22	2172	581	41	905
Scale. Plantation weighing.....	L. R. Witherell.....	373,326	Nov. 15	1581	418	41	780
Scale. Platform.....	S. J. Austin.....	372,055	Oct. 25	1903	491	41	398
Scale. Platform.....	H. L. Fisher.....	360,287	Mar. 29	2835	721	38	1462
Scale. Railway-track.....	N. Scharlé and J. Himmes.....	359,636	Mar. 22	1793	456	38	1264
Scale. Railway weighing.....	H. Estabrook.....	374,665	Dec. 13	712	187	41	1195
Scale. Recording.....	H. Harrison.....	360,220	Mar. 29	2724	{ 689 690 }	{ 38 38 }	1440
Scale. Registering and recording weighing.....	E. G. Fisher.....	371,832	Oct. 18	1562	403	41	326
Scale. Spring.....	E. A. Witherell.....	363,873	May 31	2563	665	39	987
Scale. Spring-balance.....	C. R. Maguire.....	366,491	July 12	996	271	40	198
Scale-track section.....	W. A. H. Bogardus.....	373,579	Nov. 22	1981	526	41	865
Scale. Wagon or stock.....	I. W. Mason.....	355,942	Jan. 11	924	242	38	188
Scale. Weighing.....	G. W. Craig.....	369,234	Aug. 30	2703	718	40	1003
Scale. Weighing.....	A. A. Houghton.....	362,628	May 10	798	{ 218 219 }	{ 39 39 }	628
Scale. Weighing.....	C. Richtmann.....	373,568	Nov. 22	1967	523	41	862
Scale. Weighing.....	W. M. Taylor.....	357,426	Feb. 8	979	258	38	612
Scale. Weighing.....	F. S. Washburn.....	375,520	Dec. 27	1914	502	41	1443
Scale. Weighing.....	T. A. Weber.....	361,246	Apr. 12	1238	316	39	235
Scale. Weighing.....	J. R. Wilkinson.....	360,073	Mar. 29	2497	634	38	1399

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Scale. Weighing and price	J. E. Pitrat	356,077	Jan. 11	1118	{ 295 296	{ 38	224
Scales. Adjustment for spring	L. Langdon	360,309	Mar. 29	2857	727	38	1466
Scales. Attachment for calculating	R. C. Smith	357,346	Feb. 8	867	229	38	591
Scales. Automatic grain	E. N. Williamson	367,880	Aug. 9	791	{ 213 214	{ 40	610
Scales. Electric signal for weighing	E. S. Enyart	361,275	Apr. 19	1279	328	39	254
Scales. Electrical indicator for weighing	J. E. Tarbox	374,013	Nov. 29	2593	696	41	993
Scales. Indicating attachment for weighing	H. C. Keeler	362,748	May 10	971	263	39	661
Scales, registers, &c. Concealing mechanism for	G. H. Chatillon	364,478	June 7	385	{ 104 105	{ 39	1161
Scales. Stock-rack for platform	O. T. Boulton	374,927	Dec. 20	1098	286	41	1278
Scalloping-machine	C. B. Hatfield	372,413	Nov. 1	192	54	41	506
Scalloping-machine	C. B. Hatfield	372,618	Nov. 1	490	{ 132 133	{ 41	562
Scarf	P. Everitt	369,308	Aug. 30	2811	750	40	1026
Scarf	M. Henschel	373,933	Nov. 29	2478	665	41	971
Scarf attachment	L. Fischer	363,618	May 24	2202	570	39	913
Scarf-fastener	E. Mazatis	375,174	Dec. 20	1462	382	41	1346
Scarf-holder	W. P. Clarke	368,380	Aug. 16	1502	401	40	754
Scarf-holder	J. E. Eayrs	360,767	Apr. 5	527	136	39	99
Scarf. Neck	J. A. and F. I. Kirchner. (Reissue)	10,830	Apr. 26	2389	623	39	465
Scarf-neckbands. Tip for	L. C. F. Frees	366,162	July 5	557	150	40	105
Scarf or necktie holder	G. S. White	366,284	July 12	731	199	40	146
Scarf-pin	C. Hüffner	357,318	Feb. 8	834	218	38	585
Scarfs, neckties, &c. Fastening device for	W. J. Thompson	362,334	May 3	365	101	39	545
Scenery. Device for hanging stage	J. Fried	369,052	Aug. 30	2474	657	40	958
Scholar's companion	M. J. Spencer	355,417	Jan. 4	165	43	38	33
School-building	J. C. Stewart	358,083	Feb. 22	1943	{ 512 513	{ 38	806
School-seat	W. M. Hickman	363,895	May 31	2589	673	39	991
School-seat	A. Winkler	369,829	Sept. 13	709	191	40	1177
School seat and desk	W. P. Conner	365,297	June 21	1588	{ 413 414	{ 39	1399
School seat and desk	W. Shriver and W. M. Peard	358,702	Mar. 1	420	102	38	982
Scissors. Apparatus for sharpening	J. F. Campbell	369,771	Sept. 13	625	169	40	1161
Scissors-holder	I. Gordon	368,943	Aug. 30	2318	616	40	928
Scissors or shears	H. Deichmann	363,049	May 17	1399	370	39	748
Scissors or shears	C. Hamann	374,358	Dec. 6	274	73	41	1098
Scissors-sharpener	I. A. Abbot	372,886	Nov. 8	914	247	41	648
Scissors-sharpener	H. U. Kistner	371,689	Oct. 18	1351	349	41	282
Scoop and scale. Combined	F. C. Moore and J. C. Thompson	367,429	Aug. 2	99	26	40	470
Scoop. Grain	T. J. Skillin	364,313	June 7	148	41	39	1116
Scoop. Sand	N. Q. Speer	358,993	Mar. 8	851	216	38	1065
Scourer:							
See Grain-scourer.							
Scow. Combined deck and dumping	F. P. Eastman	359,012	Mar. 8	877	223	38	1070
Scow. Dumping	J. T. Cashman	371,922	Oct. 25	1702	441	41	362
Scow. Self-dumping	J. S. Rogers	357,857	Feb. 15	1629	423	38	742
Scrap-case	G. H. Pardee	367,316	July 26	2162	582	40	432
Scraper	W. Haslup	372,975	Nov. 8	1042	279	41	671
Scraper. Adjustable elevating and self-loading wheeled	M. Moroney, Sr.	359,027	Mar. 8	895	228	38	1074
Scraper and leveler. Land	E. Sell	356,557	Jan. 25	1809	474	38	368
Scraper and leveler. Railway	H. Boutet	371,416	Oct. 11	963	250	41	196
Scraper and roller. Combined road	D. Wise and P. A. Myers	367,736	Aug. 2	583	158	40	560
Scraper. Dirt	N. Engelhart	356,755	Feb. 1	20	7	38	427
Scraper. Foot	A. J. Warren	362,237	May 3	244	70	39	520
Scraper or leveler. Earth	C. J. Minard	370,077	Sept. 20	1105	293	40	1257
Scraper. Pot	J. T. Demarest	356,527	Jan. 25	1758	458	38	358
Scraper. Road	M. E. Cook	359,848	Mar. 22	2127	536	38	1324
Scraper. Road	M. E. Cook	359,849	Mar. 22	2130	{ 536 537	{ 38	1324
Scraper. Road	M. E. Cook	359,850	Mar. 22	2132	537	38	1325
Scraper. Road	W. H. Crittenden	373,884	Nov. 29	2415	649	41	958
Scraper. Road	F. M. Everingham	360,380	Mar. 29	2960	751	38	1483
Scraper. Road	F. W. Hubbard	359,537	Mar. 15	1615	414	38	1216
Scraper. Road	C. E. Kilpatrick	365,923	July 5	238	63	40	47
Scraper. Road	F. M. Moulton and J. Booth	370,347	Sept. 20	1483	{ 397 398	{ 40	1329
Scraper. Road	H. Wiard, J. L. Judd, and W. R. Bullock	372,885	Nov. 8	913	247	41	647
Scraper. Wagon	J. S. French	367,751	Aug. 2	602	163	40	564
Scraper. Wheeled	P. Deevy	364,493	June 7	408	{ 110 111	{ 39	1165
Scraper. Wheeled	C. B. Hunter	372,415	Nov. 1	196	56	41	507
Scraper. Wheeled	F. A. Rathbun	371,704	Oct. 18	1379	356	41	288
Scraper. Wheeled dirt	J. Fitzgerald and D. L. Osborn	360,007	Mar. 29	2377	601	38	1377
Scraper. Wheeled earth	W. H. C. Goode	367,388	Aug. 2	43	11, 12	40	459
Scraper. Wheeled road	W. E. Jacobs	360,443	Apr. 5	69	18	39	14
Scrapping and grading machine. Earth	J. Tretheway, Jr.	369,824	Sept. 13	703	189	40	1176
Scrapping attachment. Road	L. G. Haase	366,952	July 19	1643	441	40	327
Scrapping machine. Road	S. Pennock	367,659	Aug. 2	449	124	40	536
Screen:							
See Car-window screen. Paper-pulp screen.							
Coal-screen. Velocipede-screen.							
Extension-screen. Window-screen.							
Fly-screen. Winnower-screen.							
Ore-screen.							
Screen	F. B. Berrien	368,506	Aug. 16	1697	452	40	791
Screen	P. B. Mathiason	365,443	June 28	1815	472	39	1454
Screen	R. G. Rice	363,258	May 17	1677	439	39	803
Screen	F. Stork	361,333	Apr. 19	1354	348	39	268

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Screens. Machine for making wire	A. F. Caldwell	374,291	Dec. 6	164	43	41	1078
Screens. Slide for extension	E. N. Porter	370,654	Sept. 27	1954	517	40	1424
Screw	G. B. N. Dow	366,158	July 5	552	149	40	104
Screw-blanks. Device for holding and guiding	C. D. Rogers	375,097	Dec. 20	1354	{ 353 354 }	{ 41 }	1324
Screw-bolt	E. D. Shelton	375,206	Dec. 20	1502	394	41	1354
Screw-bolts. Manufacture of	C. Furbish	357,768	Feb. 15	1519	395	38	721
Screw-clamp	J. W. Cheney	368,278	Aug. 16	1378	363	40	728
Screw-cutting die	C. D. Cheltz	371,175	Oct. 11	629	161	41	132
Screw-cutting die	G. Emig	368,462	Aug. 16	1634	436	40	779
Screw-cutting die	W. Murchey	363,754	May 24	2396	622	39	949
Screw-cutting machine	E. P. Baviile	361,572	Apr. 19	1683	{ 434 435 }	{ 39 }	329
Screw-cutting machine	H. F. Coy	357,180	Feb. 8	651	169	38	550
Screw-cutting machine	T. B. Smith	372,434	Nov. 1	222	62	41	512
Screw-cutting tool	J. C. Williams	372,504	Nov. 1	321	88	41	531
Screw. Drive	C. D. Rogers	364,300	June 7	132	38	39	1114
Screw. Drive	C. D. Rogers	364,302	June 7	134	38	39	1114
Screw-driver	N. Fellers	355,392	Jan. 4	132	36	38	27
Screw-driver	G. W. Hael. (Reissue)	10,820	Mar. 22	2341	589	38	1364
Screw-driver	D. R. Hart	370,255	Sept. 20	1354	362	40	1305
Screw-driver	A. Stevens	371,225	Oct. 11	698	179	41	146
Screw-driver	A. L. Stevens	371,226	Oct. 11	699	179	41	146
Screw-driver and brad-awl. Combined	W. Cronk	366,205	July 12	620	170	40	125
Screw-driver or drill. Ratchet	J. Fryxell	370,734	Sept. 27	2082	552	40	1447
Screw-driver. Reversible	T. Troy	366,439	July 12	925	251	40	183
Screw-eyes. Machine for threading and pointing	J. B. Hardy	368,394	Aug. 16	1520	{ 405 406 }	{ 40 }	758
Screw. Jack	C. H. Hopkins and G. W. Knight	371,068	Oct. 4	479	120	41	95
Screw. Jack	M. Reisch	364,373	June 7	226	64	39	1131
Screw-machine	A. Johnston	363,144	May 17	1526	404	39	773
Screw-machine	A. Johnston	368,533	Aug. 16	1732	461	40	797
Screw-machine	C. F. Roper	373,684	Nov. 22	2129	{ 570 571 }	{ 41 }	897
Screw-nicking machine	C. F. Roper	372,277	Oct. 25	2233	{ 572 573 }	{ 41 }	459
Screw-plate	H. D. Barnes	369,158	Aug. 30	2608	692	40	985
Screw-plate	N. Harris	369,002	Aug. 30	2397	637	40	943
Screw-press	R. E. Boschert	368,057	Aug. 9	1045	280	40	658
Screw. Saw	C. Glover	375,350	Dec. 27	1693	445	41	1400
Screw-tap	L. D. Castle	373,270	Nov. 15	1497	395	41	764
Screw-tap	J. Wike	371,015	Oct. 4	413	103	41	82
Screw-threads. Die for rolling	C. D. Rogers	370,354	Sept. 20	1495	401	40	1332
Screw. Wire	W. R. Clough	363,597	May 24	2165	561	39	906
Screw. Wood	H. A. Harvey	362,833	May 10	1085	294	39	652
Screw. Wood	H. K. Jones	373,074	Nov. 15	1197	319	41	710
Screw. Wood	B. C. Quinby	374,701	Dec. 13	760	199	41	1205
Screw. Wood	C. D. Rogers	367,011	July 19	1712	461	40	340
Screws. Die for swaging the points and threads of wood	C. D. Rogers	375,098	Dec. 20	1357	354	41	1325
Screws. Machine for making wood	C. D. Rogers	370,353	Sept. 20	1491	400	40	1331
Screws. Machine for shaping heads of	C. F. Roper	372,276	Oct. 25	2231	572	41	459
Screws. Self-adjusting die for swaging wood	C. D. Rogers	375,099	Dec. 20	1359	{ 354 355 }	{ 41 }	1325
Scriber or marking-awl	S. B. Derby	366,308	July 12	767	206	40	153
Scribing attachment	W. F. Seargeant	364,049	May 31	2819	731	39	1035
Scrubber	A. E. Robinson	358,625	Mar. 1	309	74	38	961
Scrubbing-machine	J. N. Batts	368,052	Aug. 9	1041	279	40	657
Sculpturing apparatus	J. G. Carlinet	361,131	Apr. 12	1064	269	39	202
Scythe fastener	T. C. Fisher	374,052	Nov. 29	2654	713	41	1005
Scythe-sharpening device	M. Humpfer	375,708	Dec. 27	2192	570	41	1493
Scythe-snath coupling	G. S. Clow	360,561	Apr. 5	249	62	39	48
Sea-quieting apparatus	M. H. Dodge	362,255	May 3	265	74	39	524
Seal	C. E. Apgar	372,101	Oct. 25	1975	507	41	410
Seal	E. J. Brooks	373,007	Nov. 8	1096	293	41	681
Seal	E. J. Brooks	373,008	Nov. 8	1097	293	41	681
Seal	J. B. O'Connor and J. Janggen	362,775	May 10	1020	277	39	678
Seal	H. Zwanziger	371,910	Oct. 18	1682	435	41	348
Seal and door-fastener. Continuous recording	G. J. Ferguson	360,285	Mar. 29	2830	{ 719 720 }	{ 38 }	1461
Seal. Car-door	A. B. Schofield	373,200	Nov. 15	1396	370	41	746
Seal. Case	A. D. Penfold	361,181	Apr. 12	1146	289	39	217
Seal. Baggage	J. W. Bryan	368,128	Aug. 9	1138	302	40	675
Seal for seal-locks	E. J. Brooks	355,636	Jan. 4	461	124	38	91
Seal. Lead	F. W. Brooks	373,332	Nov. 15	1591	420	41	782
Seal-lock	S. E. Allen	355,961	Jan. 11	958	250	38	194
Seal-lock	T. F. Anderson	359,488	Mar. 15	1538	394	38	1202
Seal-lock	J. B. Armstrong	355,853	Jan. 11	782	205	38	159
Seal-lock	J. M. Aubery	356,739	Feb. 1	1	1	38	423
Seal-lock	M. F. Berry	365,231	June 21	1483	390	39	1381
Seal-lock	C. V. Boughton	365,117	June 21	1336	{ 353 354 }	{ 39 }	1352
Seal-lock	C. V. Boughton	372,653	Nov. 8	551	151	41	584
Seal-lock	E. J. Brooks	364,892	June 14	992	261	39	1281
Seal-lock	P. Brown	369,042	Aug. 30	2453	651	40	954
Seal-lock	J. F. Browne	362,873	May 10	1141	306	39	692
Seal-lock	W. Brumble	368,375	Aug. 16	1497	399	40	753
Seal-lock	J. M. Coale and W. Brumble	375,668	Dec. 27	2136	555	41	1483
Seal-lock	C. E. Davis	362,823	May 10	1071	291	39	679
Seal-lock	C. E. Davis	371,037	Oct. 4	439	110	41	87
Seal-lock	G. A. Deitz	363,371	May 24	1829	481	39	841
Seal-lock	A. H. Dillard	367,375	Aug. 2	27	7	40	456
Seal-lock	C. M. and R. M. Drinker	371,255	Oct. 11	740	190	41	153
Seal-lock	J. H. Fisher	363,815	May 31	2484	645	39	972

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Seal-lock	L. A. Foote	371,050	Oct. 4	460	115	41	90
Seal-lock	C. S. Gilman	374,592	Dec. 13	609	159	41	1173
Seal-lock	J. A. Kirby	356,770	Feb. 1	38	11	38	430
Seal-lock	J. A. Kirby	359,450	Mar. 15	1478	378	38	1191
Seal-lock	J. A. Kirby	360,100	Mar. 29	2540	647	38	1407
Seal-lock	L. Mason	361,434	Apr. 19	1495	386	39	294
Seal-lock	E. Oehrle	366,241	July 12	679	184	40	136
Seal-lock	I. C. Plant	364,954	June 14	1085	282	39	1297
Seal-lock	F. W. Richey and S. M. Robbins	369,884	Sept. 13	803	214	40	1195
Seal-lock	J. S. Roark	370,414	Sept. 27	1591	425	40	1357
Seal-lock	A. Standing	371,798	Oct. 18	1512	390	41	315
Seal-lock	R. M. Sully	363,775	May 24	2422	629	39	954
Seal-lock	F. M. Ware and G. W. Benjamin	366,903	July 19	1579	422	40	315
Seal-locks. Seal-tag for	R. M. Sully	365,029	June 14	1192	314	39	1316
Seal. Metal	E. W. Gaylord	371,884	Oct. 18	1648	425	41	342
Seal. Metallic	E. J. Brooks	368,126	Aug. 9	1133	301	40	674
Seal. Metallic	A. J. Phelps	358,880	Mar. 8	692	172	38	1036
Seal. Metallic	A. J. Phelps	368,780	Aug. 23	2079	551	40	872
Seal. Metallic	C. L. Pond	367,442	Aug. 2	113	32	40	472
Seal-press	C. C. Abbe	366,193	July 5	600	162	40	114
Seal-press	E. J. Brooks	371,873	Oct. 18	1628	420	41	339
Seal-press	A. B. Schofield	373,201	Nov. 15	1399	370	41	746
Seal-press	J. P. S. Voght	361,972	Apr. 26	2281	593	39	446
Seal. Self-fastening	C. F. Whaley and J. M. Forest	367,877	Aug. 9	787	212	40	609
Seals. Apparatus for attaching metallic	G. Gros and L. G. Poure	371,138	Oct. 4	575	147	41	114
Sealed can. Hermetically	J. Hannigan and A. Miller	361,411	Apr. 19	1465	378	39	288
Sealing envelopes, packages, &c	S. T. Brooks	372,251	Oct. 25	2199	564	41	453
Sealing packages. Apparatus for	A. J. Phelps	358,879	Mar. 8	690	171	38	1036
Sealing packages. Apparatus for	A. J. Phelps	374,372	Dec. 6	288	76	41	1101
Seam-corrugating machine	D. A. Sutherland	371,527	Oct. 11	1115	290	41	226
Seam-dampener	F. Baldwin	359,003	Mar. 8	865	219	38	1068
Seam-finishing machine	R. D. Tucker	366,746	July 19	1374	368	40	277
Seam. Metallic	C. Dauwalter	361,349	Apr. 19	1377	354	39	272
Seam-pressing machine	J. Busfield and H. Fellows	372,837	Nov. 8	843	224	41	635
Seam-pressing machine	H. Fellows	375,417	Dec. 27	1780	466	41	1417
Seam-pressing machine	H. Fellows and J. Busfield	374,403	Dec. 6	327	86	41	1108
Seam-pressing machine	C. W. Haselton	366,582	July 12	1137	304	40	226
Seam-pressing machine	C. W. Haselton and G. P. Felt	357,482	Feb. 8	1062	281	38	628
Seaming machine. Can	J. M. Mungiven	373,150	Nov. 15	1319	350	41	732
Seaming machine. Double	V. Crockett	372,896	Nov. 8	929	251	41	651
Seaming machine. Double	F. J. Farner	359,857	Mar. 22	2141	540	38	1327
Seaming machine. Double	W. E. Spangler	371,391	Oct. 11	931	240	41	189
Seaming machine. Sheet-metal	V. Sharp	358,894	Mar. 8	715	177	38	1040
Seat:							
See Adjustable seat.	Harrow-tooth seat.						
Bicycle-seat.	Railway-rail seat.						
Buggy-seat.	Reversible seat.						
Car-seat.	School-seat.						
Carriage-seat.	Sewing-machine seat.						
Chair-seat.	Spring-seat.						
Closet-seat.	Vehicle-seat.						
Counter-seat.	Vehicle jump-seat.						
Driver's seat.	Velocipede-seat.						
Extensible seat.	Water-closet seat.						
Folding seat.							
Seat	C. A. Williamson	371,402	Oct. 11	945	243	41	191
Seat	A. Winkler	370,029	Sept. 13	1032	272	40	1236
Seat and bed. Combined	S. W. Knott	362,016	Apr. 26	2344	611	39	457
Seat-fastener	C. W. Needles	372,697	Nov. 8	610	166	41	596
Seat-lock	C. Shuman	358,895	Mar. 8	717	177	38	1040
Seat-mat	L. W. Hyde and A. H. Seaman	360,442	Apr. 5	68	18	39	14
Secondary batteries. Automatic circuit-closer for	W. W. Griscom	374,673	Dec. 13	722	190	41	1197
Secondary batteries. Charging and discharging	E. T. Starr	359,900	Mar. 22	2204	555	38	1338
Secondary batteries. Cut-out for	G. B. Prescott, Jr	357,627	Feb. 15	1285	338	38	680
Secondary batteries. Electric distribution by	W. Hochhausen	367,630	Aug. 2	398	111	40	527
Secondary batteries. Electrical distribution and charge of	F. King	371,893	Oct. 18	1661	429	41	344
Secondary batteries. Mechanism for charging	E. T. Starr	359,901	Mar. 22	2206	555	38	1338
Secondary batteries or accumulators. Positive-pole plate for	S. Farbaky and S. Schenek	359,248	Mar. 15	1188	310	38	1137
Secondary batteries. Working and forming	W. I. Ludlow	362,639	May 10	819	224	39	632
Secondary battery	O. C. Flick	370,134	Sept. 20	1192	315	40	1274
Secondary battery	W. W. Griscom	359,072	Mar. 8	949		38	1085
Secondary battery	C. Hering	372,468	Nov. 1	273		41	522
Secondary battery	W. Main	359,934	Mar. 22	2255	567	38	1348
Secondary battery	A. V. Meserole	359,877	Mar. 22	2169	547	38	1332
Secondary battery	A. Reckenzaun	371,358	Oct. 11	880	226	41	180
Secondary battery or accumulator	A. E. Peyrusson	368,608	Aug. 23	1836	490	40	826
Secondary-battery plates. Preparing	A. V. Meserole	359,876	Mar. 22	2168	491	38	1332
Secondary or storage battery	W. I. Ludlow	362,640	May 10	821	224	39	633
Secretary-table	A. Iske	360,020	Mar. 29	2406	609	38	1383
Sectional boat	J. L. Gribble	362,503	May 10	613	173	39	596
Sectional boiler	L. De Naeyer	365,801	July 5	61	18	40	13
Sectional boiler	J. Hopson, Jr., and L. S. Daniels	358,449	Mar. 1	37	11	38	910
Sectional boiler	D. F. Morgan	365,402	June 28	1754	455	39	1444
Sectional boiler	C. and J. Plaxton	366,248	July 12	688	187	40	138

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Sectional boiler	F. H. Pulsifer, Jr	368,235	Aug. 16	1311	346	40	715
Sectional boiler	J. Robb	364,958	June 14	1090	283	39	1299
Sectional boiler	H. Warden	364,982	June 14	1127	294	39	1306
Sediment-trap and solution-clarifier	M. H. Levett	369,457	Sept. 6	204	57	40	1071
Seed-conveyer	U. P. Sawyer	359,635	Mar. 22	1792	456	38	1264
Seed-crushing machine. Cotton	H. S. Taylor	374,507	Dec. 6	481	125	41	1138
Seed-drill	J. H. Johnson	369,859	Sept. 13	756	202	40	1186
Seed-drill	F. Reyner	359,470	Mar. 15	1505	385	38	1196
Seed-drill. Broadcasting	J. Harbison	362,157	May 3	145	42	39	501
Seed-drills. Attachment for	J. R. Valentine	356,340	Jan. 18	1500	394	38	302
Seed-drills. Feed-regulating and cut-off mechanism for	E. C. Ellwood and F. Bateman	373,585	Nov. 22	1987	528	41	866
Seed-drills. Fertilizer attachment for	R. A. McLeod	374,367	Dec. 6	284	75	41	1100
Seed-dropper	G. W. Moon	368,349	Aug. 16	1463	390	40	746
Seed dropper. Cotton	J. J. Ballard	372,009	Oct. 25	1822	472	41	384
Seed hulls. Treating cotton	G. E. Moore	357,089	Feb. 1	488	130	38	512
Seed. Machine for removing lint or fiber from cotton	M. Crawford	358,256	Feb. 22	2187	576	38	851
Seed mill. Cotton	S. McLean	362,028	Apr. 26	2362	616	39	460
Seed or grain feeding machine	E. W. Thompson	360,929	Apr. 12	757	198	39	147
Seed press. Cotton	W. C. McBride	370,203	Sept. 20	1290	343	40	1292
Seed. Treating cotton	J. W. Evans	360,768	Apr. 5	527	39	99	
Seeds from cucumbers. Machine for extracting	F. M. Howell	361,344	Apr. 19	1371	352	39	271
Seeder	J. Carson	372,743	Nov. 8	678	186	41	607
Seeder and cultivator	J. Montgomery	370,206	Sept. 20	1294	345	40	1293
Seeder and fertilizer-distributor. Combined	I. N. Franklin	364,002	May 31	2755	715	39	1022
Seeder and harrow. Combined	G. D. Carmer	369,395	Sept. 6	118	35	40	1055
Seeder and harrow. Combined	J. Kelly	371,764	Oct. 18	1458	377	41	305
Seeder. Broadcast	T. A. Churchill	370,120	Sept. 20	1176	311	40	1270
Seeder. Broadcast	T. R. Crane	364,576	June 7	527	142	39	1187
Seeder. Broadcast	A. Stansel	368,555	Aug. 16	1765	468	40	804
Seeder or grain planter	E. P. M. Robinson	375,198	Dec. 20	1492	391	41	1352
Seeders. Pulverizing attachment for	A. Torgerson	369,481	Sept. 6	229	64	40	1077
Seeding-boot and attachments	J. F. Keller	372,755	Nov. 8	692	191	41	610
Seeding-machine	K. P. Alston, Jr., and J. M. Basket	370,301	Sept. 20	1416	381	40	1317
Seeding-machine	W. D. Arnett	358,247	Feb. 22	2176	574	38	849
Seeding-machine	W. D. Arnett	358,248	Feb. 22	2178	574	38	850
Seeding-machine	W. D. Arnett	359,832	Mar. 22	2088	528	38	1317
Seeding-machine	A. E. Ball	356,438	Jan. 25	1637	429	38	335
Seeding-machine	M. Chandler	359,594	Mar. 22	1740	442	38	1254
Seeding-machine	A. C. Evans	370,611	Sept. 27	1898	504	40	1413
Seeding-machine	J. H. Jones	374,539	Dec. 6	534	139	41	1149
Seeding-machine	G. W. Kirkpatrick	359,727	Mar. 22	1921	487	38	1288
Seeding-machine	J. and T. H. Noxon	363,758	May 24	2400	623	39	950
Seeding-machine	C. E. Patric	367,231	July 26	2035	548	40	409
Seeding-machine	R. B. Sheldon	358,303	Feb. 22	2256	595	38	865
Seeding-machine	D. S. Troy and J. S. Davis	358,005	Feb. 15	1831	482	38	780
Seeding-machine	J. B. Williams	375,036	Dec. 20	1264	330	41	1307
Seeding-machine. Broadcast	C. Easterling	363,053	May 17	1402	371	39	749
Seeding-machine cover	J. C. Weakley	372,190	Oct. 25	2108	541	41	435
Seeding-machines. Cutting-disk for	W. D. Arnett	358,246	Feb. 22	2175	574	38	849
Seersucker fabric	J. Cumnock	369,276	Aug. 30	2759	736	40	1015
Seesaw	T. D. Cashin	357,577	Feb. 15	1222	321	38	668
Seesaw	H. R. Edmonds	366,082	July 5	452	122	40	85
Seesaw and merry-go-round	J. Class	368,652	Aug. 23	1887	503	40	836
Seine	F. A. Sowle	371,987	Oct. 25	1789	464	41	379
Seine-hauling apparatus	W. H. Gordon	371,446	Oct. 11	1006	261	41	204
Self-feeding heater	G. Jones	359,678	Mar. 22	1849	469	38	1275
Semaphore	J. C. Cox and W. F. Black	356,573	Jan. 25	1828	478	38	371
Semaphore	A. A. Strom	370,359	Sept. 20	1503	402	40	1333
Semaphore-blades. Device for operating	F. H. Treacy	369,822	Sept. 13	699	188	40	1175
Semaphore-signal	J. Schreuder and V. Spicer	372,569	Nov. 1	419	112	41	550
Semaphore-signal and switch stand	A. G. Cummings	366,306	July 12	764	206	40	152
Separable pin	J. F. Foley	363,816	May 31	2485	645	39	972
Separating and purifying the products of distillation of wood. Apparatus for	J. A. Mathieu	374,078	Nov. 29	2690	722	41	1013
Separating substances which volatilize at different temperatures. Apparatus for	J. A. Mathieu	374,077	Nov. 29	2689	722	41	1012
Separator:							
See Centrifugal separator. Grain-separator.							
See Centrifugal separator. Liquid-separator.							
Cockle-separator. Magnetic separator.							
Cockle and grain separator. Ore-separator.							
Coffee-separator. Steam-separator.							
Flaxseed-separator. Teeth-separator.							
Separator	W. L. Card	359,498	Mar. 15	1554	397	38	1204
Separator	T. R. Phillips	356,329	Jan. 18	1479	389	38	298
Service-pipes. Stop-cock box for	J. H. Kennedy	363,649	May 24	2244	581	39	920
Sewage and drainage. System for collecting, separating, and disinfecting	T. Dark	363,810	May 31	2479	643	39	971
Sewage and water in brooks or courses. Purifying and aerating plant for the filtration and treatment of	A. P. Marble and G. W. Knapp	366,333	July 12	800	216	40	158
Sewage. Apparatus for burning	M. Vincent	370,223	Sept. 20	1315	350	40	1297
Sewage. Apparatus for treating	R. B. Fithian	360,956	Apr. 12	805	207	39	155
Sewage. Apparatus for treating	W. R. Hinsdale	363,826	May 31	2498	648	39	974

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Sewage or other impurities Apparatus for removing.	F. Sanders.....	357,338	Feb. 8	858	{ 224 225 226	{ 38	589
Sewage. Process of and apparatus for treating	L. Coes.....	368,071	Aug. 9	1066	285	40	662
Sewage. Separating and filtrating apparatus for	C. W. Chancellor.....	372,656	Nov. 8	554	{ 151 152	{ 41	584
Sewer.....	J. H. Clark.....	356,448	Jan. 25	1652	433	38	338
Sewer and waste pipe trap	W. R. Warden.....	367,686	Aug. 2	495	136	40	544
Sewer-cap.....	P. J. McMahon.....	360,168	Mar. 29	2658	671	38	1427
Sewer-cleaner.....	T. H. Duffy.....	356,754	Feb. 1	19	6	38	427
Sewer gas-trap.....	J. Tilton.....	368,793	Aug. 23	2077	555	40	875
Sewer-gate.....	C. Geiger.....	356,758	Feb. 1	24	8	38	428
Sewer-inlet.....	C. P. Kahler.....	366,846	July 19	1511	404	40	301
Sewer-trap.....	H. Textor.....	373,952	Nov. 29	2510	675	41	976
Sewer trap or valve.....	T. McHugh.....	373,782	Nov. 22	2266	608	41	922
Sewerage apparatus. House.....	W. W. Page.....	364,433	June 7	315	86	39	1148
Sewerage system for buildings.....	C. H. Shepherd.....	361,456	Apr. 19	1523	394	39	300
Sewerage system for buildings.....	C. H. Shepherd.....	372,494	Nov. 1	305	84	41	529
Sewing and quilting fabrics. Machine for	F. L. Palmer.....	358,124	Feb. 22	2008	529	38	816
Sewing bags. Machine for	W. H. Kerr.....	374,541	Dec. 6	537	{ 140 141 142	{ 41	1150
Sewing brooms. Machinery for.....	J. Temple.....	358,088	Feb. 22	1950	516	38	807
Sewing buttons to fabrics. Machine for	W. E. Bennett and E. P. Merwin.....	359,956	Mar. 22	2287	{ 575 576	{ 38	1354
Sewing carpets. Apparatus for.....	J. Ekhart.....	374,145	Nov. 29	2786	748	41	1030
Sewing device. Mitt and glove	A. A. Bouton.....	367,356	Aug. 2	3	1. 2	40	451
Sewing knit fabrics. Machine for	W. Beattie.....	370,446	Sept. 27	1639	437	40	1365
Sewing looped fabrics. Machine for	A. Nelson.....	374,422	Dec. 6	354	{ 92 93 94	{ 41	1114
Sewing-machine.....	C. H. Bayley.....	364,791	June 14	849	223	39	1253
Sewing-machine.....	J. Bigelow.....	365,665	June 28	2146	{ 560 561	{ 39	1519
Sewing-machine.....	M. W. Clay.....	360,087	Mar. 29	2514	640	38	1403
Sewing-machine.....	J. M. Curry.....	369,694	Sept. 13	528	146	40	1145
Sewing-machine.....	P. Diehl.....	374,661	Dec. 13	701	{ 184 185	{ 41	1193
Sewing-machine.....	P. Diehl.....	374,662	Dec. 13	705	185	41	1193
Sewing-machine.....	A. A. Fisher and A. J. Hart.....	357,379	Feb. 8	914	{ 240 241	{ 38	601
Sewing-machine.....	D. W. Goodell.....	365,514	June 28	1926	501	39	1477
Sewing-machine.....	J. Holroyd.....	360,095	Mar. 29	2526	643	38	1405
Sewing-machine.....	J. A. House.....	364,719	June 14	721	192	39	1232
Sewing-machine.....	W. Jackson.....	364,517	June 7	436	117	39	1170
Sewing-machine.....	J. Keith.....	359,573	Mar. 15	1679	429	38	1227
Sewing-machine.....	C. Kohler.....	356,590	Jan. 25	1848	{ 485 486	{ 38	375
Sewing-machine.....	J. W. Lingley.....	368,538	Aug. 16	1740	463	40	798
Sewing-machine.....	R. S. Looker.....	361,426	Apr. 19	1485	{ 383 384	{ 39	292
Sewing-machine.....	R. S. Looker.....	361,427	Apr. 19	1487	384	39	293
Sewing-machine.....	W. A. Mack.....	356,203	Jan. 18	1298	343	38	263
Sewing-machine.....	A. Morehouse.....	356,413	Jan. 18	1594	419	38	319
Sewing-machine.....	W. H. Palmer, Jr.....	364,769	June 14	808	213	39	1246
Sewing-machine.....	W. A. Polmateer.....	365,486	June 28	1872	486	39	1466
Sewing-machine.....	J. W. Ramsden and H. S. Ellis.....	357,334	Feb. 8	852	{ 222 223	{ 38	588
Sewing-machine.....	J. Reece.....	370,412	Sept. 27	1586	424	40	1356
Sewing-machine.....	A. M. Whipple.....	370,114	Sept. 20	1164	308	40	1267
Sewing-machine.....	A. F. Wileman.....	370,225	Sept. 20	1317	351	40	1297
Sewing-machine attachment for embroidering.....	E. A. Moon.....	360,896	Apr. 12	712	189	39	139
Sewing-machine automatic tension	J. H. Whitney.....	373,163	Nov. 15	1336	355	41	735
Sewing-machine binding attachment	J. R. Ready.....	375,196	Dec. 20	1489	390	41	1352
Sewing machine. Book.....	L. W. Fifield and A. I. Jacobs.....	370,460	Sept. 27	1660	{ 442 443 444	{ 40	1369
Sewing machine. Book.....	A. M. Stickney.....	365,027	June 14	1185	{ 311 312 313 314	{ 39	1315
Sewing-machine. Boot or shoe	J. Albrecht.....	375,244	Dec. 20	1549	{ 406 407	{ 41	1363
Sewing machine button-feeding device. Button.....	W. E. Bennett.....	373,330	Nov. 15	1587	420	41	781
Sewing-machine. Button-hole	J. G. Greene.....	360,433	Apr. 5	54	13. 14	39	12
Sewing-machine. Button-hole	J. G. Greene.....	360,434	Apr. 5	56	14. 15	39	12
Sewing-machine. Button-hole	T. F. Hart.....	363,821	May 31	2490	{ 646 647	{ 39	973
Sewing-machine. Button-hole	T. F. Hart.....	363,823	May 31	2494	647	39	974
Sewing-machine. Button-hole	C. S. Jordan.....	366,006	July 5	351	95	40	67
Sewing-machine. Button-hole	W. S. Mills.....	362,771	May 10	1013	{ 275 276	{ 39	669
Sewing-machine. Button-hole	W. Randel.....	363,678	May 24	2281	{ 591 592	{ 39	927
Sewing-machine. Button-hole	F. E. Schmidt.....	372,709	Nov. 8	624	{ 170 171	{ 41	598
Sewing-machine button-hole attachment	J. W. Blodgett.....	360,649	Apr. 5	363	91. 92	39	69
Sewing-machine button-hole attachment	J. W. Blodgett.....	366,616	July 12	1188	318	40	234
Sewing-machine button-hole attachment	F. C. Hall.....	367,291	July 26	2128	{ 573 574	{ 40	425
Sewing-machine button-hole attachment	J. R. Hebert.....	362,745	May 10	961	{ 261 262	{ 39	659
Sewing-machine button-hole attachment	A. W. Johnson.....	374,479	Dec. 6	438	{ 114 115	{ 41	1130

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sewing-machine button-hole attachment	A. W. Johnson	374,837	Dec. 13	952	249	41	1241
Sewing-machine button-hole attachment	W. E. Trull	375,304	Dec. 20	1631	427	41	1379
Sewing-machine button-hole attachment	H. J. Williams	374,918	Dec. 13	1081	282 283	41	1266
Sewing-machine cop.	M. V. Palmer	360,108	Mar. 29	2563	651	38	1411
Sewing-machine cording attachment	W. F. Brooks, A. V. Abercrombie, and S. W. Houghton.	366,147	July 5	539	146	40	102
Sewing-machine cover and stool. Combined	G. O. Brager	358,643	Mar. 1	331	80	38	965
Sewing-machine drawer	A. M. Leslie	362,520	May 10	634	179	39	601
Sewing-machine driving mechanism	J. G. Greene	365,918	July 5	229	61	40	44
Sewing-machine driving mechanism	C. Nicholson	357,223	Feb. 8	708	182	38	561
Sewing-machine fan attachment	C. W. Cook	362,573	May 10	709	197	39	613
Sewing-machine fan attachment	H. H. Herrington	373,366	Nov. 15	1653	439	41	793
Sewing-machine feed	J. C. Daggett	373,391	Nov. 15	1685	447	41	799
Sewing-machine feed-adjusting device	J. H. Whitney	373,164	Nov. 15	1337	355	41	735
Sewing-machine feed mechanism	E. E. Angell	368,925	Aug. 30	2293	609	40	923
Sewing-machine feed-reversing mechanism	W. A. Neely	374,551	Dec. 6	555	145 146	41	1154
Sewing-machine feeding device	G. F. Wilson	365,956	July 5	287	76	40	55
Sewing-machine feeding mechanism	C. F. Bosworth	371,414	Oct. 11	961	249	41	195
Sewing-machine feeding mechanism	J. W. Dewees	363,811	May 31	2480	644	39	971
Sewing-machine feeding mechanism	S. W. Wardwell, Jr.	355,735	Jan. 11	608	159	38	129
Sewing-machine gage	A. Morehouse	356,414	Jan. 18	1596	419 420	38	320
Sewing-machine. Glove-	F. Markgraf	373,937	Nov. 29	2484	666 667	41	972
Sewing-machine guide	W. C. Meier	371,613	Oct. 18	1239	322	41	260
Sewing-machine loop-takers. Mechanism for impart- ing variable motion to	A. Steward	369,619	Sept. 6	426	119	40	1116
Sewing-machine looping mechanism	J. G. Greene	360,435	Apr. 5	58	15	39	13
Sewing-machine motor	W. H. Clayton	364,216	June 7	25	7	39	1093
Sewing-machine-motor brake	W. Naab	375,184	Dec. 20	1475	386	41	1349
Sewing-machine needle	C. H. Willcox	357,805	Feb. 15	1557	405	38	729
Sewing-machine quilting-frame	C. H. Bernheim	360,846	Apr. 12	638	169	39	126
Sewing-machine quilting-frame	T. A. Hill	372,911	Nov. 8	947	256	41	654
Sewing-machine quilting-frame	H. S. Taylor	373,320	Nov. 15	1572	416	41	778
Sewing-machine ruffler attachment	W. R. Parsons	375,681	Dec. 27	2157	561	41	1487
Sewing-machine ruffling attachment	J. S. Sackett	364,138	May 31	2946	765	39	1059
Sewing-machine seat	J. H. Mahan	373,144	Nov. 15	1299	346	41	729
Sewing-machine. Shoe-sole	E. H. Smith	369,563	Sept. 6	342	94 95 96	40	1099
Sewing-machine shuttle	D. H. Campbell	374,937	Dec. 20	1122	293 294	41	1282
Sewing-machine shuttle	P. Diehl	375,695	Dec. 27	2177	566	41	1490
Sewing-machine shuttle	J. Tripp	361,337	Apr. 19	1360	350	39	269
Sewing-machine shuttle	J. Tripp and G. D. Garvie	361,338	Apr. 19	1362	350	39	269
Sewing-machine shuttles. Machine for winding cops for	M. V. Palmer	368,897	Aug. 23	2240	596	40	904
Sewing-machine. Sole-	C. Dancel	366,935	July 19	1615	432 433 434	40	322
Sewing-machine stand	J. W. Post	370,888	Oct. 4	214	54	41	42
Sewing-machine stand and cover	J. Bolton	374,578	Dec. 13	595	155	41	1171
Sewing-machine table	R. S. Looker	364,358	June 7	207	57	39	1128
Sewing-machine tables. Receptacle for	G. L. Gray	357,123	Feb. 1	560	145	38	525
Sewing-machine tension device	B. C. Bedell	359,420	Mar. 15	1440	368	38	1183
Sewing-machine tension device	J. Bond, Jr.	361,127	Apr. 12	1056	267	39	201
Sewing-machine tension device	J. W. Foster	373,179	Nov. 15	1361	360 361	41	739
Sewing-machine tension device	J. B. Hipwell	355,529	Jan. 4	302	81	38	61
Sewing-machine tension device	F. Meyer, J. Falcetti, and J. C. Harder	374,986	Dec. 20	1197	311	41	1295
Sewing-machine tension device	J. W. Post	373,852	Nov. 29	2369	636	41	950
Sewing-machine tension device	W. H. Taylor and C. D. Cutts	373,760	Nov. 22	2230	597	41	916
Sewing-machine thread-controlling device	S. W. Wardwell, Jr.	371,648	Oct. 18	1285	333	41	269
Sewing-machine thread-guard	M. E. Chapman	365,793	July 5	45	14	40	10
Sewing-machine tops. Hook-and-eye hinge for	G. L. Gray	367,616	Aug. 2	375	105	40	523
Sewing-machine treadle	J. R. McCall	361,708	Apr. 26	1891	489	39	377
Sewing-machine trimmer	L. Muther and R. G. Woodward	369,653	Sept. 6	473	132	40	1125
Sewing-machine trimming attachment	P. Diehl	361,401	Apr. 19	1451	374 375	39	285
Sewing-machine trimming attachment	G. G. Rutz	369,658	Sept. 6	480	133	40	1126
Sewing-machine trimming device	C. H. Willcox	365,716	June 28	2221	579	39	1532
Sewing-machine tuck-marking attachment	J. R. Hebert	370,869	Oct. 4	176	47	41	35
Sewing-machine. Wax-thread	D. H. Campbell	374,934	Dec. 20	1109	289 290 291	41	1280
Sewing-machine. Wax-thread	A. S. Richardson. (Reissue)	10,873	Oct. 11	1127	293	41	229
Sewing-machine work-plate	C. F. Littlejohn	363,655	May 24	2250	583	39	922
Sewing-machines. Attachment-holder for	G. A. Brady	358,011	Feb. 22	1839	486	38	787
Sewing-machines. Attachment-holder for	F. Egge	356,458	Jan. 25	1664	436	38	340
Sewing-machines. Automatic tension for	D. Crawford	358,963	Mar. 8	807	204	38	1058
Sewing-machines. Binding attachment for	C. T. Jones	359,572	Mar. 15	1678	428	38	1227
Sewing-machines. Bobbin-winder for	T. F. Evetts	368,760	Aug. 23	2054	544	40	868
Sewing-machines. Button-hole-cording attachment for	J. S. Collins	356,621	Jan. 25	1903	499 500	38	386
Sewing-machines. Button-hole cutter for	F. E. Schmidt	369,473	Sept. 6	221	62	40	1075
Sewing-machines. Button-hole-cutting attachment for button-hole	F. W. Ostrom. (Reissue)	10,803	Feb. 1	630	162	38	538
Sewing-machines. Clamp-operating mechanism for button-hole	E. K. Morrison	367,312	July 26	2157	580 581	40	431
Sewing-machines. Connection for operating	L. W. McClung	365,529	June 28	1947	507	39	1482
Sewing-machines. Cutting mechanism for button- hole	J. Douglas	367,796	Aug. 9	678	184	40	587
Sewing-machines. Elastic treadle for	J. H. Whitney	372,281	Oct. 25	2239	574 575	41	460

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Sewing-machines. Feeding device for	A. A. Bouton	367,357	Aug. 2	7	2	40	452
Sewing-machines. Hand-operating attachment for ..	L. W. McClung	362,296	May 3	313	86	39	534
Sewing-machines. Hand-power attachment for	J. M. Cosby	360,376	Mar. 29	2954	756	38	1482
Sewing-machines. Hand-power for	W. P. Clark	368,379	Aug. 16	1501	400	40	754
Sewing-machines. Hook-needle for	C. H. Willcox	357,806	Feb. 15	1558	406	38	729
Sewing-machines. Mechanism for operating and reg- ulating the feed-movements of	A. C. Mitchell	370,805	Oct. 4	74	19	41	17
Sewing-machines. Presser-bar lifting and adjusting device for	J. W. Post	373,851	Nov. 29	2368	636	41	949
Sewing-machines. Presser-foot-attachment holder for	E. Seitz	373,312	Nov. 15	1559	413	41	775
Sewing-machines. Presser-foot for	W. R. Parsons	356,849	Feb. 1	149	40	38	450
Sewing-machines. Presser-foot for	B. F. Warren	369,141	Aug. 30	2587	687	40	981
Sewing-machines. Rotary-shuttle-operating mech- anism for	J. H. Connor and T. F. Blessington ..	366,929	July 19	1608	431	40	321
Sewing-machines. Rotary take-up for	S. W. Wardwell, Jr	357,251	Feb. 8	747	{ 193 194 }	{ 38 38 }	568
Sewing-machines. Ruffling attachment for	A. Johnston	368,923	Aug. 23	2283	607	40	912
Sewing-machines. Shuttle and shuttle-carrier for ..	W. H. Inslee	366,666	July 19	1263	337	40	256
Sewing-machines. Shuttle-operating mechanism for ..	J. Bolton	367,021	July 26	1720	466	40	351
Sewing machines. Signature-gage for book	E. F. Cone	358,594	Mar. 1	273	63	38	954
Sewing machines. Signature-holding arm of book ..	J. R. Reynolds	366,793	July 19	1434	383	40	287
Sewing-machines. Spool-cradle for	C. W. Banks	359,198	Mar. 8	1110	289	38	1115
Sewing-machines. Spool-holder for	L. H. Goodwin	367,972	Aug. 9	930	252	40	637
Sewing-machines. Starting attachment for	D. B. Haselton	367,910	Aug. 9	836	225	40	619
Sewing-machines. Take-up device for	C. F. Littlejohn	363,656	May 24	2251	583	39	922
Sewing-machines. Take-up device for wax-thread ..	D. H. Campbell	374,936	Dec. 20	1116	{ 292 293 }	{ 41 41 }	1281
Sewing machines. Take-up for book	J. R. Reynolds	358,572	Mar. 1	239	56	38	948
Sewing-machines. Thread-delivering attachment for ..	J. W. West	371,998	Oct. 25	1809	468	41	382
Sewing-machines. Throat-plate for	F. T. Ströbeck	356,510	Jan. 25	1740	453	38	355
Sewing-machines. Trimming attachment for	C. H. Willcox	374,440	Dec. 6	384	101	41	1119
Sewing-machines. Wax-heater and thread-waxer for	S. A. Allen	370,440	Sept. 27	1631	435	40	1364
Sewing machines. Welt-guide for shoe	E. F. Arnold	359,239	Mar. 15	1177	307	38	1135
Sewing. Method of	A. Morehouse	356,415	Jan. 18	1598	420	38	320
Sewing on buttons. Machine for	J. Keith	365,440	June 28	1809	{ 470 471 }	{ 39 39 }	1454
Sewing or other machines. Stand for	W. A. Mack	367,920	Aug. 9	849	229	40	622
Sewing. Uniting fabrics by	C. S. Pusey	361,081	Apr. 12	989	250	39	189
Sewing with wire. Machine for	L. Hall	359,563	Mar. 15	1665	424	38	1224
Shackle-clips. Manufacture of	F. P. Bates	357,450	Feb. 8	1014	269	38	619
Shackle. Spring	M. L. Bergman and M. L. Miller ..	357,169	Feb. 8	636	165	38	547
Shade-exhibitor	L. McNutt	370,967	Oct. 4	345	86	41	68
Shade-holder	F. Rhind	373,154	Nov. 15	1325	351	41	733
Shade-holders. Making	J. Spruce	373,696	Nov. 22	2148	575	41	900
Shade or globe holder	W. J. Stratton	371,802	Oct. 18	1519	391	41	316
Shade or globe holder	S. B. H. Vance	363,702	May 24	2325	603	39	936
Shade-ring, &c	C. A. Evarts	372,211	Oct. 25	2139	549	41	441
Shade-roller	A. B. Shaw	371,635	Oct. 18	1266	329	41	265
Shades. Bottom bar for	J. Mohlberg	372,039	Oct. 25	1880	485	41	393
Shaft attachment. Vehicle	R. W. Hare and R. Sproul	363,230	May 17	1641	431	39	796
Shaft brake. Driving	E. H. Cottrell	362,250	May 3	258	73	39	523
Shaft. Buggy	J. H. Burgess	367,183	July 26	1956	528	40	394
Shaft-carrier	V. W. A. Richards	374,203	Dec. 6	52	13	41	1056
Shaft connection. Crank	A. L. Center	374,174	Dec. 6	20	5	41	1050
Shaft. Counter	C. A. Backstrom	363,447	May 24	1939	509	39	861
Shaft-coupling	W. B. Culver	373,443	Nov. 22	1762	467	41	826
Shaft-coupling	W. Miller	364,537	June 7	480	129	39	1178
Shaft-coupling	J. G. Shepard	370,422	Sept. 27	1599	427	40	1359
Shaft-coupling	R. J. Stuart	369,136	Aug. 30	2583	686	40	980
Shaft-coupling. Safety	R. C. Spinks	363,015	May 17	1351	357	39	738
Shaft-covering	D. M. Hayworth	370,784	Oct. 4	49	12	41	12
Shaft. Crank	D. A. Woodbury	357,884	Feb. 15	1663	433	38	749
Shaft. Flexible	W. B. Mann	369,865	Sept. 13	768	205	40	1189
Shaft-hanger	W. T. Carroll	373,337	Nov. 15	1597	421	41	783
Shaft-hanger	C. Esplin	366,656	July 19	1248	334	40	254
Shaft-hanger	W. J. Lane	367,304	July 26	2147	578	40	429
Shaft-hanger	G. H. Mackay	362,291	May 3	308	85	39	533
Shaft-hanger	A. E. Preston	362,658	May 10	845	231	39	637
Shaft-holder	G. W. Chipley	365,502	June 28	1891	493	39	1470
Shaft-key	W. N. Woodruff	368,744	Aug. 23	2031	538	40	864
Shaft-straightening machine	A. Dwelle	366,466	July 12	958	261	40	191
Shaft-support	T. A. Knox	365,310	June 21	1605	418	39	1402
Shaft-support	J. Maish	358,211	Feb. 22	2134	563	38	841
Shaft-supporter	F. W. and T. L. Sperry	371,857	Oct. 18	1604	414	41	334
Shaft. Vehicle	D. L. Cheek	360,204	Mar. 29	2706	683	38	1437
Shafts and ordnance. Manufacture of	J. H. Flagler	364,098	May 31	2883	748	39	1048
Shafts. Apparatus for taking the end-thrust of ..	L. B. Wells	366,748	July 19	1379	369	40	278
Shafts, axle-journals, &c. Machine for grooving ..	C. H. Dodd	361,677	Apr. 26	1849	{ 479 480 }	{ 39 39 }	370
Shafts, building foundations, &c., in aqueous strata. Sinking	F. H. Poetsch	363,419	May 24	1901	500	39	854
Shafts. Fastening wheels or pulleys upon	H. J. Macklin	362,167	May 3	158	46	39	504
Shafts. Lubricating the bearings of upright	E. D. Mackintosh	366,632	July 12	1210	323	40	239
Shafts. Manufacture of crank	J. B. Stanwood	359,290	Mar. 15	1243	323	38	1147
Shafts. Shifting attachment for vehicle	H. E. Wallis	372,394	Nov. 1	165	47	41	501
Shafts. Vehicle	J. A. Hayton	366,831	July 19	1485	396	40	296
Shafts. Vehicle	S. Toomey	366,530	July 12	1056	287	40	210
Shafting and pulley	A. W. Rolfe	370,416	Sept. 27	1593	425	40	1358
Shafting. Clutch and stop-motion for	M. O. Rehfuß	362,997	May 17	1321	{ 350 351 }	{ 39 39 }	732
Shafting. Detachable collar for	B. Truxal	370,168	Sept. 20	1244	331	40	1284
Shafting-hanger	H. P. Humphrey	373,071	Nov. 15	1193	318	41	708
Shaking apparatus	C. Collins	366,460	July 12	949	259	40	189

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Shaking bolt	W. S. Parker, D. H. Blood, and O. F. Tower.	356,781	Feb. 1	50	14, 15	38	433
Shank and heel burnishing machine	R. Ashe	369,679	Sept. 13	511	142	40	1142
Shank-stiffener	C. F. Baker	362,923	May 17	1220	325	39	713
Shank-stiffeners. Method of and apparatus for compressing	J. M. Watson	367,484	Aug. 2	182	51	40	486
Shaping and sawing machine. Combined	W. Huey	371,504	Oct. 11	1087	283	41	221
Sharpening-machine	J. M. Connel	373,517	Nov. 22	1896	{ 502 503 }	{ 41 41 }	850
Shaving apparatus	R. M. Keating	358,979	Mar. 8	830	210	38	1062
Shaving apparatus	R. M. Keating	360,159	Mar. 29	2645	668	38	1425
Shaving apparatus	R. M. Keating	371,945	Oct. 25	1734	448	41	368
Shaving apparatus	A. H. Wallace	364,691	June 14	675	181	39	1224
Shawl-strap and head-rest. Combined	W. J. Brown	363,723	May 24	2355	611	39	941
Sheaf-carrier	F. G. Middlekauff	357,619	Feb. 15	1277	335	38	678
Sheaf-carrier	J. F. Steward	368,981	Aug. 30	2369	629	40	938
Shearing mechanism	F. H. Richards	366,187	July 5	593	160	40	112
Shears:							
See Animal-shears. Pruning-shears.							
Circular shears. Rotary shears.							
Lawn-shears. Sheep-shears.							
Metal-shears. Sheet-metal shears.							
Metal-cutting shears.							
Shears	F. Celce	355,299	Jan. 4	12	4	38	4
Shears	F. Clauss	362,572	May 10	708	197	39	613
Shears	I. Fitts	358,548	Mar. 1	199	47	38	939
Shears	W. E. Lant	356,253	Jan. 18	1365	361	38	277
Shears and punching-machine. Combined	J. Stortz	362,468	May 3	560	{ 155 156 }	{ 39 39 }	582
Sheathing and lath machine	E. M. Byrkit	357,521	Feb. 8	1124	294	38	640
Sheathing and lathing. Combined	T. F. Timby	368,694	Aug. 23	1964	520	40	851
Sheave-block	J. H. Redmond	360,050	Mar. 29	2456	625	38	1392
Sheep-shears	F. Frielinghaus	359,252	Mar. 15	1192	311	38	1137
Sheet-associating mechanism	L. C. Crowell	373,224	Nov. 15	1436	{ 379 380 }	{ 41 41 }	753
Sheet-delivery apparatus	J. Brooks	374,930	Dec. 20	1103	{ 287 288 }	{ 41 41 }	1279
Sheet-delivery apparatus	W. Scott	368,734	Aug. 23	2021	536	40	862
Sheet material. Machine for uniting	F. Bean	367,498	Aug. 2	213	60, 61	40	492
Sheet materials. Machine for uniting	A. P. Holman and F. Bean	366,001	July 5	343	91, 92	40	65
Sheet-metal bending and flanging machine	W. Kent	357,606	Feb. 15	1260	331	38	675
Sheet-metal-bending machine	P. Kimmel	366,486	July 12	985	{ 267 268 }	{ 40 40 }	196
Sheet-metal-bending machine	O. Pocock	357,228	Feb. 8	713	183	38	562
Sheet metal by electro-deposition. Apparatus for forming	E. Emerson	371,276	Oct. 11	742	190	41	154
Sheet-metal can	F. J. Deverall	362,254	May 3	264	74	39	524
Sheet-metal can	H. Miller	368,348	Aug. 16	1462	390	40	746
Sheet-metal can	E. Norton	362,991	May 17	1314	348	39	731
Sheet-metal can and manufacturing the same	E. Norton	370,404	Sept. 27	1575	421	40	1354
Sheet-metal-can cap, head, or blank	E. Norton	364,662	June 14	636	171	39	1216
Sheet-metal cleats. Machine for making	J. Enright	359,066	Mar. 8	943	241	38	1084
Sheet-metal column	F. Mesker and H. F. Edwards	371,080	Oct. 4	508	128	41	100
Sheet-metal-corrugating machine	B. F. Caldwell and W. F. Peterson	370,682	Sept. 27	1995	531	40	1431
Sheet-metal-crimping machine	G. C. Keene	364,259	June 7	79	23	39	1104
Sheet-metal-cutter. Corrugated	E. D. Libbey	363,524	May 24	2061	535	39	886
Sheet metal. Die for cutting planchets from	J. G. Hodgson	375,354	Dec. 27	1699	446	41	1401
Sheet-metal-edging machine	C. E. Skinner	358,991	Mar. 8	847	214	38	1065
Sheet-metal-folding machine	N. Koenig	367,214	July 26	2004	542	40	403
Sheet metal. Hollow articles of	L. B. Foss	358,970	Mar. 8	816	206	38	1060
Sheet-metal joint	J. G. Battelle	365,042	June 21	1214	320	39	1332
Sheet metal. Machine for feeding and punching scrap	C. M. Platt	366,247	July 12	686	{ 186 187 }	{ 40 40 }	138
Sheet metal. Machine for forming	M. T. Durkin	357,765	Feb. 15	1511	{ 393 394 }	{ 38 38 }	720
Sheet-metal. Machine for shearing and bending	A. J. Duncan	357,187	Feb. 8	663	{ 171 172 }	{ 38 38 }	553
Sheet metal. Ornamentation of	F. Rudolph	374,559	Dec. 6	566	149	41	1155
Sheet metal. Ornamentation of	J. Wood	366,286	July 12	733	199	40	146
Sheet metal. Ornamented	J. Wood	369,147	Aug. 30	2795	689	40	982
Sheet metal. Ornamenting	T. W. Burger	363,205	May 17	1112	423	39	790
Sheet metal. Ornamenting	V. Fountain	356,757	Feb. 1	23	7	38	427
Sheet metal. Press for cutting and stamping articles of	N. C. Stiles	369,970	Sept. 13	933	{ 248 249 }	{ 40 40 }	1219
Sheet-metal ring and making the same	C. C. Andrews	357,302	Feb. 8	819	212	38	582
Sheet-metal-scouring machine	J. K. Chace	359,919	Mar. 22	2229	561	38	1343
Sheet-metal-scroll cutter	A. O. Kittredge	362,975	May 17	1295	343	39	727
Sheet-metal-scroll cutter	A. O. Kittredge	362,976	May 17	1296	344	39	727
Sheet-metal-scroll cutter	A. O. Kittredge	362,977	May 17	1298	344	39	728
Sheet-metal-scroll cutter	A. O. Kittredge	364,262	June 7	83	24	39	1104
Sheet-metal-scroll cutter	A. O. Kittredge and F. M. Leavitt	364,763	June 14	796	{ 210 211 }	{ 39 39 }	1245
Sheet-metal-shearing machine	C. Wais	373,033	Nov. 8	1137	305	41	687
Sheet-metal shears	J. H. Mason	371,961	Oct. 25	1760	456	41	372
Sheet-metal vessel	F. A. Walsh	359,826	Mar. 22	2077	525	38	1316
Sheet-metal vessel	F. A. Walsh	366,049	July 5	413	112	40	78
Sheet-metal vessels. Machine for tin-wiring the edges of	E. F. Verdel	362,471	May 3	565	157	39	583
Shelf and exhibitor. Combined	L. A. Ely	373,447	Nov. 22	1768	469	41	827
Shelf-bracket	J. W. Albro	358,766	Mar. 1	503	{ 123 124 }	{ 38 38 }	997
Shelf-bracket	J. Baines	361,111	Apr. 12	1028	260	39	196
Shell	H. P. Hurst	372,753	Nov. 8	690	191	41	610
Shell	C. G. Otis	357,500	Feb. 8	1085	286	38	633

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Shell capper and extractor.....	P. A. Lee.....	374,482	Dec. 6	446	116	41	1131
Shell-crimper.....	A. F. Haskins and T. B. Cox.....	372,466	Nov. 1	270	75	41	522
Shell. Dynamite.....	T. W. Young.....	365,456	June 28	1830	476	39	1457
Shell for high explosives.....	J. A. Howell.....	373,459	Nov. 22	1788	476	41	831
Shells and tubes. Device for drawing.....	A. Rais.....	363,910	May 31	2609	678	39	995
Shells. Extractor for headless.....	C. H. Keenan.....	357,773	Feb. 15	1524	397	38	722
Shells. Manufacture of.....	C. T. Cayley and R. S. Courtman.....	374,113	Nov. 29	2740	{ 735 736 }	{ 41 41 }	1022
Sheller:							
<i>See</i> Corn-sheller.							
Shelving.....	H. T. Reed.....	359,691	Mar. 22	1871	475	38	1279
Shelving.....	W. H. Winslow.....	360,547	Apr. 5	226	57	39	44
Shelving. Movable.....	F. V. Comfort.....	375,128	Dec. 20	1402	{ 364 365 }	{ 41 41 }	1333
Shingle and making the same. Wooden.....	S. J. Johnson.....	359,571	Mar. 15	1677	428	38	1227
Shingle-beveling machine.....	G. Adam.....	368,268	Aug. 16	1359	358	40	725
Shingle-bolts. Machine for sawing.....	E. H. Allman.....	355,581	Jan. 4	371	100	38	74
Shingle-machine.....	J. P. Ferrenburg.....	374,953	Dec. 20	1149	301	41	1287
Shingle. Metal.....	N. Green.....	364,507	June 7	424	115	39	1168
Shingle. Metallic.....	H. W. Harry.....	359,605	Mar. 22	1752	446	38	1257
Shingle. Metallic.....	A. Ricketson.....	356,161	Jan. 18	1248	330	38	254
Shingle. Metallic.....	F. E. Sagendorph.....	370,417	Sept. 27	1594	426	40	1358
Shingle. Metallic.....	H. Smeeton.....	369,477	Sept. 6	224	63	40	1076
Shingle or roofing-plate. Metallic.....	L. D. Cortright.....	359,959	Mar. 22	2298	578	38	1356
Shingle or roofing-plate. Metallic.....	J. S. Thorn.....	361,031	Apr. 12	920	233	39	175
Shingle-sawing machine.....	P. O'Connor.....	358,474	Mar. 1	75	19, 20	38	917
Shingle-sawing machine.....	W. J. Perkins.....	355,710	Jan. 11	568	{ 149 150 }	{ 38 38 }	121
Shingle-sawing machine.....	W. J. Perkins.....	369,811	Sept. 13	681	184	40	1172
Shingle-sawing machine.....	D. Rilev.....	355,473	Jan. 4	236	62	38	48
Shingle-sawing machine.....	W. J. Tunmore.....	369,668	Sept. 6	494	136	40	1129
Shingle. Sheet-metal.....	B. F. Caldwell.....	366,925	July 19	1604	{ 429 430 }	{ 40 40 }	320
Shingles. Machine for dressing.....	H. Lightner.....	358,045	Feb. 22	1887	{ 499 500 }	{ 38 38 }	796
Shingles. Machine for jointing and shaping.....	A. T. Stimson.....	368,117	Aug. 9	1124	299	40	673
Ship-building.....	J. McIntyre.....	367,828	Aug. 9	720	{ 193 194 }	{ 40 40 }	596
Ships, &c. Apparatus for raising sunken.....	G. S. Dodman.....	357,657	Feb. 15	1340	353	38	689
Ships. Construction of.....	R. M. Fryer.....	356,065	Jan. 11	1093	{ 287 288 289 290 291 }	{ 38 38 38 38 38 }	220
Ships, &c. Construction of.....	T. J. Hanlen.....	359,861	Mar. 22	2148	542	38	1328
Ship's course corrector.....	C. Rouget.....	368,973	Aug. 30	2359	626	40	935
Ships. Device for elevating water, ashes, &c., from.....	H. See.....	368,691	Aug. 23	1951	{ 517 518 }	{ 40 40 }	849
Ships, &c. Yard for.....	D. Campbell.....	360,049	Apr. 12	946	239	39	179
Shipping-can.....	S. J. Hubbell.....	368,399	Aug. 16	1527	408	40	760
Shipping-can.....	W. Neil.....	362,459	May 3	548	152	39	580
Shipping-can. Wood-jacketed.....	W. Y. Horne and J. Danz, Jr.....	371,586	Oct. 18	1202	314	41	252
Shipping-case for comb-honey.....	N. N. Betsinger.....	358,722	Mar. 1	449	109	38	987
Shipping-cases. Fastening device for.....	J. F. Bartlett.....	355,497	Jan. 4	262	70	38	53
Shirt.....	G. H. Abrams.....	372,781	Nov. 8	747	202	41	619
Shirt.....	W. B. Brokaw.....	361,486	Apr. 19	1562	405	39	307
Shirt.....	S. Comes.....	360,661	Apr. 5	383	97	39	72
Shirt.....	G. Daniel and M. Rubin.....	367,135	July 26	1896	513	40	182
Shirt.....	W. S. Finch.....	372,019	Oct. 25	1838	476	41	387
Shirt.....	W. A. Lawrence.....	356,947	Feb. 1	279	77	38	473
Shirt.....	E. A. Lehmann.....	357,325	Feb. 8	842	220	38	586
Shirt.....	I. H. Mambert.....	357,016	Feb. 1	381	101	38	493
Shirt.....	B. O'Connor.....	358,406	Feb. 22	2393	636	38	891
Shirt.....	F. H. Powers.....	366,685	July 19	1291	{ 344 345 }	{ 40 40 }	261
Shirt.....	F. L. Sheldon.....	361,898	Apr. 26	2170	562	39	427
Shirt.....	A. S. Strouse.....	358,822	Mar. 1	538	146	38	1012
Shirt.....	I. P. Turner.....	371,154	Oct. 4	598	{ 153 154 }	{ 41 41 }	118
Shirt and method of attaching supplemental bosoms thereto.....	S. Butz.....	355,638	Jan. 4	465	124	38	92
Shirt-bodies. Uniting combined re-enforce and overlap pieces to.....	G. E. Gardner.....	371,677	Oct. 18	1330	344	41	278
Shirt-bosoms. Making.....	J. G. Wallach.....	364,066	May 31	2840	737	39	1040
Shirt-loop.....	J. P. Baumann.....	373,918	Nov. 29	2463	661	41	968
Shirt-neckband.....	W. Husband.....	362,965	May 17	1285	341	39	725
Shirt-stretcher.....	E. H. Iveson.....	375,069	Dec. 20	1314	343	41	1317
Shirts. Attaching bosoms to.....	D. N. Bristol.....	373,550	Nov. 22	1940	514	41	858
Shirts. Cutting.....	A. Borchardt.....	360,507	Apr. 5	161	40	39	31
Shirts. Press for dampening.....	L. H. Watson.....	373,868	Nov. 29	2391	643	41	954
Shoal-water alarm.....	L. Erik.....	358,655	Mar. 1	352	84	38	969
Shoe.....	T. Balcom and W. H. Allen, Jr.....	374,515	Dec. 6	490	128	41	1141
Shoe.....	E. N. Cunningham.....	373,054	Nov. 15	1170	313	41	704
Shoe.....	D. J. O'Neill.....	366,503	July 12	1018	277	40	202
Shoe. Bathing.....	A. G. Faye, Jr.....	363,377	May 24	1835	483	39	842
Shoe. Button.....	W. H. Wood.....	369,087	Aug. 30	2525	670	40	967
Shoe-clasp.....	D. F. Dalton.....	361,993	Apr. 26	2308	601	39	451
Shoe-clasp.....	T. E. King.....	362,013	Apr. 26	2341	610	39	457
Shoe-clasp.....	T. E. King.....	362,014	Apr. 26	2343	610	39	457
Shoe-clasp.....	H. S. Pullman.....	362,040	Apr. 26	2376	619	39	463
Shoe-clasp.....	E. S. Smith.....	372,576	Nov. 1	433	115	41	552
Shoe. Combined button and elastic.....	I. Freed and J. A. Affleck.....	373,230	Nov. 15	1450	382	41	755
Shoe-fastener.....	C. E. Lewis and F. G. Briegel.....	361,166	Apr. 12	1126	284	39	214
Shoe-fastener.....	J. M. McHenry.....	374,984	Dec. 20	1196	311	41	1295

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Shoe-fastening	W. Keppler	362,094	May 3	59	18	39	484
Shoe-fastening	C. F. W. Seidel	357,541	Feb. 8	1157	303	38	646
Shoe-fastening	G. Valiant	355,955	Jan. 11	952	249	38	192
Shoe-lace fastening	H. B. Ten Eyck	359,477	Mar. 15	1521	389	38	1199
Shoe-lacing and lace-fastening	A. C. Mather	362,760	May 10	1000	271	39	666
Shoe last	S. B. McNamara	373,840	Nov. 29	2352	632	41	947
Shoe last and standard	S. R. Garrison	373,974	Nov. 29	2543	683	41	983
Shoe-makers. Combination device for	H. Richmond	362,182	May 3	172	51	39	507
Shoe. Moccasin	J. E. Booth	355,755	Jan. 11	636	166	38	134
Shoe-nail	L. J. Atwood	360,983	Apr. 12	843	216	39	161
Shoe-nail	L. W. Austin	363,446	May 24	1938	508	39	861
Shoe-nail	E. E. Dow	374,524	Dec. 6	508	132	41	1144
Shoe-nail	F. Flad	374,590	Dec. 13	608	158	41	1173
Shoe-nailing machine	O. E. Seymour	364,778	June 14	823	{ 217 218 }	{ 39 41 }	1249
Shoe or corset fastening	M. Reardon	371,357	Oct. 11	880	226	41	180
Shoe or glove fastener	F. M. Loder	371,082	Oct. 4	497	125	41	98
Shoe. Rubber	M. V. Barney	369,766	Sept. 13	620	167	40	1160
Shoe. Seamless	G. Apsley	374,571	Dec. 13	585	153	41	1169
Shoe-shank burnisher	L. C. Kenton	374,972	Dec. 20	1178	307	41	1292
Shoe-shanks. Machine for making metallic	N. C. Ruberg	356,081	Jan. 11	1126	297	38	225
Shoe-sole-edge setter	L. C. Kenton	375,074	Dec. 20	1320	{ 344 345 }	{ 41 41 }	1315
Shoe-sole plate	C. Williams	374,512	Dec. 6	487	126	41	1140
Shoe-sole wire. Machine for making	L. Goddu	360,428	Apr. 5	43	11, 12	39	10
Shoe-soles. Device for inking the edge of	W. W. Crooker	373,390	Nov. 15	1684	447	41	799
Shoe-soles. Roll for butting	G. H. Fox and F. H. Pope	369,513	Sept. 6	270	75	40	1085
Shoe-stretcher	W. Jones	358,456	Mar. 1	46	13	38	912
Shoe-stretcher	F. Roeder	373,569	Nov. 22	1968	523	41	862
Shoe-stretching machine	I. E. Booth	364,889	June 14	987	260	39	1280
Shoe-upper blank	J. L. Skinner	370,980	Oct. 4	369	91	41	73
Shoe-uppers. Machine for making seamless	T. Balcom and W. H. Allen, Jr.	362,699	May 10	901	{ 245 246 }	{ 39 41 }	648
Shoe-uppers. Mechanism for crimping	A. R. James	363,521	May 24	2056	534	39	885
Shoe-vamp-burnishing machine	W. F. Hutchinson	356,839	Feb. 1	131	36	38	447
Shoes. Device for cutting buttons from	L. C. Tappey, Jr.	370,290	Sept. 20	1405	377	40	1314
Shoes, &c. Device for unbuttoning	G. T. Fallis	361,151	Apr. 12	1107	280	39	210
Shoes. Instep-pad for	C. H. Winter	374,106	Nov. 29	2733	733	41	1021
Shoes. Lasting	J. Keith	371,588	Oct. 18	1204	314	41	252
Shoes. Machine for stretching and finishing	I. E. Booth	355,966	Jan. 11	966	252	38	195
Shoes. Manufacture of	S. W. Wardwell, Jr.	365,888	July 5	183	47	40	36
Shoulder-brace	C. J. Haley	370,055	Sept. 20	1075	284	40	1252
Shoulder-brace and back-support. Combined	E. Case	372,601	Nov. 1	467	125	41	558
Shoulder-brace and skirt-supporter	J. Stewart	373,699	Nov. 22	2151	576	41	901
Shoulder-pad	E. Goldman	359,441	Mar. 15	1466	375	38	1188
Shoulder-pad for garments	R. M. Eastman	374,120	Nov. 29	2752	739	41	1024
Shovel:							
See Plow-shovel. Snow-shovel.							
Shovel	P. W. Groom	359,967	Mar. 22	2314	582	38	1359
Shovel	J. Hinchman	366,099	July 5	472	128	40	89
Shovel	E. H. Hudson	355,648	Jan. 4	479	128	38	94
Shovel	A. D. Langill	368,597	Aug. 23	1816	483	40	823
Shovel	M. G. Tousley	357,970	Feb. 15	1780	467	38	771
Shovel and hoe. Combined	A. Schad	368,013	Aug. 9	990	266	40	648
Shovel-blanks. Machine for splitting the tangs and forming the sockets of	H. M. Myers	369,360	Sept. 6	76	23, 24	40	1048
Shovel-blanks. Machine for splitting the tangs and shaping the bodies of	H. M. Myers	367,834	Aug. 9	727	196	40	597
Shovel-blanks. Machine for splitting the tangs of	H. M. Myers	367,833	Aug. 9	725	195	40	597
Shovel-handle	J. O. Mantor	369,800	Sept. 13	664	181	40	1169
Shovel-handle	C. A. Maynard	375,454	Dec. 27	1831	479	41	1427
Shovel-handle	J. Pfeifer	364,039	May 31	2807	727	39	1033
Shovel-handle. Metallic	J. O. Mantor	370,150	Sept. 20	1216	322	40	1278
Shovel-handles. Machine for bending	W. H. Johnson	368,475	Aug. 16	1651	{ 440 441 }	{ 40 41 }	789
Shovel or scoop	T. Lees	360,029	Mar. 29	2417	613	38	1385
Shovels. Machine for splitting blanks for	A. B. Smith	372,497	Nov. 1	308	85	41	529
Shovels. Manufacture of	C. A. Maynard	373,530	Nov. 22	1915	{ 507 508 }	{ 41 41 }	854
Show-case	H. Q. Bailey	372,352	Nov. 1	101	29	41	490
Show-case	J. H. Flagg	363,619	May 24	2203	570	39	913
Show-case	E. J. Fletcher	363,621	May 24	2205	571	39	913
Show-case	W. J. Gannon	358,391	Feb. 22	2373	631	38	887
Show-case	J. R. and E. E. Hersh	371,457	Oct. 11	1018	265	41	207
Show-case	S. Steinfield and W. P. Foust	364,448	June 7	342	94	39	1154
Show-case. Counter	W. W. and J. H. Hinton	360,153	Mar. 29	2635	666	38	1423
Show-case for wall-paper, &c. Sample	J. H. Davis	374,589	Dec. 13	606	158	41	1173
Show-case. Revolving	A. J. Blackford	362,814	May 10	1062	288	39	678
Show-stand	J. R. Palmenberg	358,475	Mar. 1	80	20	38	918
Show-stand	J. R. Palmenberg	360,463	Apr. 5	96	24	39	19
Show-stand. Advertising	L. F. Wetzell	366,441	July 12	927	{ 252 253 }	{ 40 41 }	184
Show-stand for collars and cuffs	W. H. Gallup	373,823	Nov. 29	2332	625	41	943
Show stand or case	J. K. Cleary	369,044	Aug. 30	2458	652	40	955
Shower-pipe-cleansing apparatus	R. Smith	362,672	May 10	861	235	39	641
Shrinkage-gage	H. J. Small and J. McNaughton	367,454	Aug. 2	133	38	40	476
Shut-off box	M. Walker	372,244	Oct. 25	2187	561	41	451
Shutter-fastener	W. B. Avery	371,538	Oct. 18	1135	296	41	240
Shutter-fastener	C. S. Ball, Jr.	360,406	Apr. 5	6	2	39	3
Shutter-fastener	J. A. Burr	363,207	May 17	1614	424	39	791
Shutter-fastener	A. Cochard and J. Gano	365,795	July 5	47	14	40	337
Shutter-fastener	T. Corcaden	366,996	July 19	1696	456	40	11
Shutter-fastener	D. E. Darnell	364,707	June 14	705	188	39	1225
Shutter-fastener	J. B. Kelly	373,986	Nov. 29	2560	688	41	984

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Shutter-fastener	F. B. Mallory	374,981	Dec. 20	1193	310	41	1295
Shutter-fastener	H. A. Streeter	371,637	Oct. 18	1268	329	41	265
Shutter-fastener	T. K. Thompson	371,641	Oct. 18	1274	331	41	267
Shutter fastener and bower	A. Roeder	366,881	July 19	1554	416	40	310
Shutter-fastening	J. W. Kohn	360,964	Apr. 12	819	210	39	157
Shutter-support	C. H. Baush	358,324	Feb. 22	2281	602	38	870
Shutter-worker	F. E. Brown	375,439	Dec. 27	1811	474	41	1423
Shutter-worker	A. H. Dodd	360,146	Mar. 29	2621	663	38	1421
Shutter-worker	E. F. Goodwin	375,151	Dec. 20	1434	375	41	1340
Shutter-worker	C. S. Kempton	361,296	Apr. 19	1310	336	39	260
Shutter-worker	F. B. Mallory	360,031	Mar. 29	2419	614	38	1385
Shutter-worker	F. B. Mallory	360,708	Apr. 5	447	114	39	83
Shutter-worker	F. B. Mallory	362,168	May 3	159	46	39	504
Shutter-worker	F. B. Mallory	373,147	Nov. 15	1315	349	41	731
Shutter-worker	J. Wayland	365,357	June 21	1676	437	39	1417
Shutter-worker	J. T. Wilde	358,998	Mar. 8	859	218	38	1067
Shutter-worker	G. F. S. and H. Zimmerman	371,242	Oct. 11	719	185	41	150
Shutter worker and fastener. Combined	F. B. Mallory	374,608	Dec. 13	634	165	41	1178
Shuttle and mechanism for operating the same. Rotary	D. Porter	358,750	Mar. 1	484	118		
Shuttle-operating mechanism	L. W. Buck	363,724	May 24	2356	611	39	942
Shuttle-operating mechanism	J. C. Potts	357,097	Feb. 1	501	133	38	515
Shuttle-operating mechanism. Rotary	D. Porter	368,967	Aug. 30	2351	624	40	934
Sidewalks and floors over chambers and excavations. Construction of	P. H. Jackson	366,840	July 19	1500	400	40	299
Siding and roofing. Metallic sheeting for	L. L. Sagendorph	370,659	Sept. 27	1964	520	40	1426
Siding bracket, gage, and compass. Combined	J. M. Shanklin and J. E. McNeill	356,166	Jan. 18	1252	331	38	255
Siding-gage	P. V. Moberg	370,019	Sept. 13	1021	269	40	1234
Siding-jack	E. Kerns	364,260	June 7	81	23	39	1104
Siding or weather-boarding gage	J. H. and W. B. Hubbard	372,221	Oct. 25	2154	552	41	444
Sieve. Coal	W. A. Bartlett and S. Childs	369,223	Aug. 30	2659	714	40	1001
Sifter	C. H. Breck	371,544	Oct. 18	1142	297	41	241
Sifter and strainer	R. G. Freund	360,579	Apr. 5	273	67	39	53
Sifter. Ash	J. L. Barrows	366,065	July 5	432	118	40	82
Sifter. Ash	C. H. Chase	372,204	Oct. 25	2128	547	41	439
Sifter. Ash	W. Coughlin	370,933	Oct. 4	291	71	41	58
Sifter. Ash	C. R. Maguire	366,492	July 12	997	271	40	199
Sifter. Coal and ash	D. L. Falardeau	370,185	Sept. 20	1267	336	40	1288
Sifter. Coal-ash	T. Scholes	366,887	July 19	1559	418	40	311
Sifter. Flour or meal	H. S. Brewington	367,022	July 26	1731	466	40	352
Sign	W. B. Atkinson	366,911	July 19	1586	424	40	316
Sign	P. J. Dalton	355,510	Jan. 4	278	74	38	56
Sign	J. P. O'Brien	360,900	Apr. 12	717	190	39	140
Sign-frame	H. S. Works	373,384	Nov. 15	1676	445	41	798
Sign or signal	A. R. Pullin	369,614	Sept. 6	420	117	40	1115
Sign or signal	A. R. Pullin	369,615	Sept. 6	422	118		
Sign-plate. Embossed	A. Winkler	364,389	June 7	248	70	39	1136
Sign. Reversible	J. N. Akarman	360,503	Apr. 5	153	38	39	29
Sign. Sheet-metal	J. Meyer	369,955	Sept. 13	914	243	40	1215
Sign. Window	G. H. Babcock	362,350	May 3	385	107	39	549
Signs. Manufacture of ornamental	W. L. Hight	365,682	June 28	2172	566	39	1524
Signal:							
See Alarm-signal. Railway-crossing signal.							
Audible signal. Railway danger-signal.							
Car-signal. Railway-switch signal.							
Electric signal. Railway time-signal.							
Engine-signal. Railway-train signal.							
Fence-signal. Semaphore-signal.							
Fog-signal. Submarine signal.							
Hotel-signal. Telephone-signal.							
Minute-glass signal. Telephone-instrument signal.							
Pressure-signal. signal.							
Railway-signal. Water-signal.							
Signal and pyrotechnic electric light	A. C. Ferguson	370,052	Sept. 20	1071	283	40	1251
Signal apparatus	J. E. Baker	367,019	July 26	1727	465	40	351
Signal apparatus. Automatic	J. H. Crosby	355,639	Jan. 4	466	124	38	92
Signal apparatus. Electric train	J. C. Tiffany and J. R. De Mier	373,160	Nov. 15	1331	354		
Signal apparatus. Municipal	B. J. Noyes	359,686	Mar. 22	1856	472	38	1277
Signal apparatus. Municipal	B. J. Noyes	359,687	Mar. 22	1859	473		
Signal apparatus. Municipal	B. J. Noyes	359,688	Mar. 22	1863	473	38	1278
Signal-box	H. A. Chase	363,948	May 31	2672	693	39	1006
Signal-box	H. A. Chase	366,154	July 5	545	147	40	103
Signal-box	F. W. Cole	365,365	June 28	1687	440	39	1432
Signal-box	M. Martin	375,083	Dec. 20	1331	347	41	1320
Signal-box	A. Meyer	355,548	Jan. 4	329	88	38	67
Signal-flag staff	R. W. Price and H. A. Russell	363,345	May 17	1796	471	39	826
Signal-instrument. Transmitting	F. Pearce and J. Jones	358,694	Mar. 1	409	98	38	980
Signal-light. Revolving	W. Bolson	373,047	Nov. 15	1160	310	41	702
Signals on railways. Device for actuating	J. J. Turner	374,917	Dec. 13	1080	282		
Signals, switches, &c. Device for actuating	J. J. Turner	374,914	Dec. 13	1075	281	41	1264
Signals, switches, &c. Device for actuating	J. J. Turner	374,916	Dec. 13	1078	282	41	1265
Signaling apparatus	R. Quatermass	370,558	Sept. 27	1811	482	40	1396
Signaling apparatus. Compensating device for	F. H. Treacy	369,821	Sept. 13	698	188	40	1175
Signaling apparatus. Electric	S. Ilyne-Berline	362,216	May 3	217	64	39	515
Signaling apparatus. Electric	W. Glasgow and S. S. Stevens	371,445	Oct. 11	1005	261	41	204
Signaling apparatus. Electric	J. P. Tirrell	370,831	Oct. 4	106	29, 30	41	22
Signaling through submarine cables. Method of and apparatus for	M. G. Farmer	361,498	Apr. 19	1574	409	39	309
Silk. Dressing	L. Graissot	371,498	Oct. 11	1079	.....	41	219

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Silk fabric. Woven.....	R. Simon. (Reissue)	10,810	Feb. 22	2416	642	38	896
Silk fabrics. Making filling or tram for	R. Simon	358,489	Mar. 1	95	24	38	921
Silk goods. Preparing trams for.....	R. Simon. (Reissue)	10,809	Feb. 22	2415	642	38	895
Silk. Machine for stringing	J. Ryle	373,486	Nov. 22	1833	488	41	839
Silk-throwing machine	J. E. Tynan	364,783	June 14	835	219	39	1251
Silk-throwing machine	J. E. Tynan	364,784	June 14	836	220	39	1251
Silk-throwing machine	J. E. Tynan	364,785	June 14	839	220 221	39	1252
Silk-twisting machines. Tension device for	G. Singleton	359,184	Mar. 8	1087	283	38	1111
Silo. Grain.....	L. Smith	355,480	Jan. 4	245	65	38	50
Silver from its ores by lixiviation. Extracting	O. Hofmann	366,103	July 5	476	129	40	90
Singeing fabrics. Machine for.....	F. C. Sayles and O. E. Drown	373,856	Nov. 29	2375	638 639	41	951
Singeing laces, cloth, &c. Apparatus for.....	F. C. Sayles and O. E. Drown	373,857	Nov. 29	2377	639	41	951
Singletree	G. K. Edgley	368,079	Aug. 9	1078	287	40	664
Singletree	O. F. Lowe	373,025	Nov. 8	1129	302	41	685
Singletree	J. W. Waterfield	363,442	May 24	1933	507	39	860
Singletree-plate	B. F. Gorsuch	372,614	Nov. 1	485	131	41	561
Siphon	C. N. Tyler	357,645	Feb. 15	1318	347	38	686
Siphon apparatus	H. Ayer	374,726	Dec. 13	795	208	41	1211
Siphon or spigot extension or shank.....	W. A. Bond	366,070	July 5	439	119	40	83
Siphon-pipe heater	G. E. Dixon	356,456	Jan. 25	1661	435	38	340
Sirup. Alternative	J. R. Stephens	367,679	Aug. 2	488		40	543
Sizing-vat	C. H. Fisher	362,735	May 10	946	258	39	657
Skate. Extension ice.....	C. M. Raymond	357,629	Feb. 15	1288	338 339	38	680
Skate-fastening	E. H. Barney	359,493	Mar. 15	1546	395	38	1203
Skate-fastening	E. H. Barney	361,113	Apr. 12	1030	260	39	197
Skate-roller	H. B. Cobb	357,579	Feb. 15	1224	322	38	668
Skate. Roller.....	J. V. Rowlett.....	362,478	May 3	5 3	159	39	585
Skate. Roller.....	W. V. Yost	363,716	May 24	2344	608	39	940
Skate wheel. Roller.....	H. Johnson	355,399	Jan. 4	140	37	38	29
Skates. Fastening device for.....	E. H. Barney	358,716	Mar. 1	443	107	38	986
Skiagraph	J. M. Maxwell	356,144	Jan. 18	1223	324	38	250
Skimmer. Telescopic.....	P. L. Kimball	359,510	Mar. 15	1569	402	38	1207
Skimming device for milk-cans	A. E. Mendenhall	370,275	Sept. 20	1382	371	40	1310
Skins or pelts. Machine for cutting up.....	G. O. Reynolds	372,088	Oct. 25	1958	504	41	407
Skirt and protector. Combined.....	F. St. Clair	365,450	June 28	1823	474	39	1456
Skirt and stocking protector	G. H. Lasswell	369,535	Sept. 6	304	84	40	1092
Skirt-facings. Woven fabric for.....	L. Moschcowitz.....	365,147	June 21	1378	364	39	1360
Skirt-lining	J. Reinhardt	370,161	Sept. 20	1228	327	40	1281
Skirt. Safety.....	M. A. Sutton and A. O. Wood	357,135	Feb. 1	583	150	38	528
Skirt spring. Dress.....	M. Cohn	357,370	Feb. 8	897	237	38	597
Skirt-supporter	E. E. and J. S. West.....	368,637	Aug. 23	1870	499	40	833
Skiving-machine	W. S. Fitzgerald.....	370,327	Sept. 20	1454	390 391	40	1324
Skiving-machine	C. B. Hatfield	363,461	May 24	1960	513	39	864
Skylight-shutter	J. E. Briggs	373,549	Nov. 22	1939	513 514	41	858
Skylights. Shutter for	J. E. Briggs	362,602	May 10	754	208	39	620
Slag trough or spout	J. F. Keiper	370,262	Sept. 20	1367	367	40	1307
Slasher	H. S. Fenner	365,591	June 28	2045	533	39	1500
Slasher	C. McCarty	372,692	Nov. 8	606	165	41	594
Slate. Folding tracing.....	W. D. Heyer	365,182	June 21	1422	375	39	1368
Slate frame. Writing.....	O. J. Owen	374,554	Dec. 6	561	147	41	1155
Slate-frames. Pencil-holder for.....	R. Holbon	368,289	Aug. 16	1302	367	40	731
Slate. Reversible folding.....	L. Steinberger	365,549	June 28	1976	515	39	1488
Slate-sawing machine	J. H. Rudolph	357,133	Feb. 1	581	149	38	528
Slate. School.....	P. C. Ritchie	360,327	Mar. 29	2879	733	38	1470
Slate. School.....	C. R. Stuntz and A. A. Clerke.....	358,581	Mar. 1	252		38	950
Slate washer and wiper	P. D. Horton	358,119	Feb. 22	2001	527	38	815
Slate-wiper	E. W. Puellmann	362,109	May 3	84	25	39	489
Slates. Pencil-holder for	C. E. Swaney	369,663	Sept. 6	489	134	40	1127
Sled	S. L. Allen	368,802	Aug. 23	2110	558 559	40	878
Sled	H. Commandoer	355,300	Jan. 4	13	4	38	5
Sled	J. H. Elward	375,145	Dec. 20	1424	371	41	1337
Sled	L. Fisher	366,946	July 19	1637	439	40	326
Sled	W. Haslup	372,974	Nov. 8	1041	279	41	670
Sled	H. Meek	355,775	Jan. 11	666	173	38	139
Sled	L. V. Moulton and J. H. Rempis.....	369,359	Sept. 6	75	23	40	1048
Sled	J. H. Nicholson	366,239	July 12	675	183	40	135
Sled	W. Schau	364,046	May 31	2816	730	39	1035
Sled	W. Scott	371,377	Oct. 11	909	233	41	185
Sled	H. L. Sweet	373,498	Nov. 22	1857	494	41	843
Sled	A. Wolff	365,161	June 21	1396	368	39	1363
Sled. Bob.....	J. J. Dunbar and H. Holloway	366,716	July 19	1334	357	40	269
Sled. Bob.....	J. P. Kramer	367,716	Aug. 2	556	152	40	556
Sled. Bob.....	J. S. Nelson	372,863	Nov. 8	879	235	41	642
Sled. Bob.....	J. P. Rollins	364,137	May 31	2945	765	39	1059
Sled. Bob.....	E. Warsaw	361,560	Apr. 19	1655	429	39	325
Sled. Coasting.....	W. H. Penfield	362,177	May 3	168	49	39	506
Sled. Logging.....	J. Wisdom	367,172	July 26	1942	524	40	391
Sled-propeller	F. F. Foster	359,504	Mar. 15	1561	319	38	1206
Sled-propeller	B. J. Murphy	371,897	Oct. 18	1668	430	41	345
Sled-propeller	F. Robbin	374,428	Dec. 6	366	96	41	1116
Sleds. Hand guide and brake for.....	P. B. Doty	364,910	June 14	1021	267	39	1266
Sleeve-holder and finger-guard. Combined.....	S. C. Brown	356,679	Jan. 25	1973	519	38	400
Sleeve-protector	M. E. Cory	360,564	Apr. 5	252	63	39	49
Sleeve-protector	H. Smadbeck	359,330	Mar. 15	1298	337	38	1157
Sleeve-stay	F. H. Nichols	375,503	Dec. 27	1892	495	41	1439
Sleigh	S. R. Bailey	355,855	Jan. 11	785	206	38	159
Sleigh	E. J. Cox and D. E. Forton	375,607	Dec. 27	2048	531	41	1466
Sleigh	R. E. Lee	365,392	June 28	1741	451	39	1441

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sleigh.....	E. A. Ovenshire.....	358,407	Feb. 22	2394	636	38	891
Sleigh.....	J. F. Pratt and W. Chase.....	364,295	June 7	124	35, 36	39	1113
Sleigh.....	W. H. Remsen.....	359,692	Mar. 22	1872	475	38	1279
Sleigh.....	A. H. Sawyer.....	373,198	Nov. 15	1394	369	41	745
Sleigh.....	W. Schan.....	375,003	Dec. 20	1218	318	41	1299
Sleigh.....	G. A. Strickland.....	371,803	Oct. 18	1519	392	41	317
Sleigh-brake.....	O. A. Gordon.....	362,951	May 17	1260	333	39	721
Sleigh-brake.....	E. C. Selle.....	367,165	July 26	1935	522	40	389
Sleigh bolster. Logging.....	A. C. McKendree.....	371,273	Oct. 11	764	196	41	158
Sleigh-coupling.....	C. Harrigan.....	367,808	Aug. 9	694	187	40	590
Sleigh-knee.....	L. D. Stillson.....	371,153	Oct. 4	597	153	41	118
Sleigh. Log.....	G. Desjardins.....	371,043	Oct. 4	449	113	41	89
Sleigh-runner.....	S. C. Brownell.....	363,279	May 17	1706	446	39	809
Sleigh-shoe.....	G. A. Stevens.....	375,214	Dec. 20	1515	398	41	1357
Sleighs. Shifting-bar for.....	W. M. Peck.....	360,907	Apr. 12	728	192	39	142
Sleighs. Shifting-bar for.....	E. M. Winslow.....	366,548	July 12	1076	292	40	214
Sleighs. Wheel attachment for.....	M. B. Hancock.....	365,471	June 28	1855	482	39	1462
Slicer. Vegetable.....	J. D. Freese.....	365,467	June 28	1846	480	39	1461
Slicer. Vegetable.....	D. F. McDonald.....	375,646	Dec. 27	2101	547	41	1477
Slicing-machine.....	K. C. Hansen.....	361,870	Apr. 26	2133	553	39	420
Slicing-machine.....	W. C. Miller.....	360,715	Apr. 5	455	116	39	84
Slide-rest.....	F. R. Cross.....	356,709	Jan. 25	2011	528	38	406
Sliding gate.....	J. J. Albright.....	374,647	Dec. 13	686	181	41	1189
Sliding gate.....	D. E. James and E. Lazenby.....	356,317	Jan. 18	1457	353	38	294
Sliding gate.....	W. R. White.....	371,237	Oct. 11	712	183	41	149
Sliding gate.....	W. R. White.....	371,238	Oct. 11	713	183	41	149
Sliding-hill and toboggan therefor.....	B. B. Floyd.....	367,286	July 26	2424	572	40	424
Sliding-hill and toboggan to be used therewith.....	B. B. Floyd.....	374,736	Dec. 13	809	212	41	1214
Sliding or rolling gate.....	R. S. and W. W. Higgins.....	366,097	July 5	470	{ 127 128 }	{ 40 39 }	88
Sliding screen. Adjustable.....	S. B. Comstock.....	364,901	June 14	1008	264	39	1284
Slip-holder.....	A. K. Owen.....	366,423	July 12	906	244	40	179
Slippers. Making.....	C. J. Eisenbeis.....	369,928	Sept. 13	876	231	40	1208
Slippery-elm tent.....	D. J. Nichols and W. H. Shepard.....	375,185	Dec. 20	1476	386	41	1349
Slotting or drilling machine. Convertible.....	F. H. Brown.....	367,782	Aug. 9	656	{ 176 177 }	{ 40 39 }	583
Sluiceway and flood gate.....	T. Parker.....	372,040	Oct. 25	1881	{ 485 486 }	{ 41 39 }	393
Smelting-furnace. Cupola.....	C. Sahler.....	371,367	Oct. 11	892	229	41	182
Smoke and spark conveyer for locomotives.....	O. Fitzgerald, Jr.....	369,050	Aug. 30	2465	654	40	956
Smoke-condenser.....	B. Roberts.....	371,365	Oct. 11	890	229	41	182
Smoke-consumer.....	H. R. Walker.....	358,135	Feb. 22	2029	533	38	820
Smoke-consuming furnace.....	H. Adams.....	364,745	June 14	759	201	39	1239
Smoke-consuming furnace.....	P. Ahlberg.....	367,018	July 26	1725	465	40	351
Smoke-consuming furnace.....	S. Bond.....	365,571	June 28	2012	{ 524 525 }	{ 39 38 }	1495
Smoke-consuming furnace.....	C. C. Carter.....	361,133	Apr. 12	1068	270	39	203
Smoke-consuming furnace.....	C. E. Davis.....	374,457	Dec. 6	409	107	41	1124
Smoke-consuming furnace.....	J. W. Hubber.....	365,342	June 21	1653	432	39	1412
Smoke-consuming furnace.....	F. Leadbeater.....	375,169	Dec. 20	1457	381	41	1345
Smoke-consuming furnace.....	G. F. Tinkham.....	371,804	Oct. 18	1520	392	41	317
Smoke-consuming furnace.....	G. E. Wery.....	373,625	Nov. 22	2048	545	41	879
Smoke-consuming furnace for steam-generators.....	G. R. Uridge.....	373,502	Nov. 22	1862	495	41	844
Smoke-houses. Air and smoke spreader and distrib- uter for.....	N. Murphy.....	355,706	Jan. 11	564	148	38	120
Smoke-jack.....	A. W. Quackenbush.....	357,941	Feb. 15	1738	454	38	763
Smoker's implement.....	B. P. Richardson.....	366,611	July 12	1182	316	40	233
Smoking-pipe.....	A. L. Johnston.....	370,195	Sept. 20	1282	341	40	1291
Smoking-pipe.....	H. G. Schramm.....	362,119	May 3	95	29	39	491
Smoothing and fluting iron. Combined.....	W. T. Phegley.....	369,027	Aug. 30	2429	645	40	949
Smoothing-iron.....	T. Wollworth.....	369,830	Sept. 13	711	191	40	1178
Snap-hook.....	J. M. Basinger.....	356,268	Jan. 18	1382	366	38	280
Snap-hook.....	E. Bradley.....	364,572	June 7	521	141	39	1186
Snap-hook.....	S. E. Cotter.....	366,462	July 12	952	260	40	189
Snap-hook.....	B. D. Geib.....	369,516	Sept. 6	275	76	40	1086
Snap-hook.....	E. E. Hardy.....	360,522	Apr. 5	191	47	39	37
Snap-hook.....	J. Hickey.....	356,467	Jan. 25	1674	438	38	342
Snap-hook.....	G. A. Huff.....	370,333	Sept. 20	1462	393	40	1326
Snap-hook.....	R. W. Jones.....	358,813	Mar. 1	578	144	38	1011
Snap-hook.....	N. Kinsley and A. Heusser.....	359,929	Mar. 22	2249	566	38	1346
Snap-hook.....	H. U. Kistner.....	371,690	Oct. 18	1352	350	41	282
Snap-hook.....	J. Letchworth.....	375,554	Dec. 27	1969	512	41	1453
Snap-hook.....	C. W. Penfield.....	373,535	Nov. 22	1922	509	41	855
Snap-hook.....	C. A. Pomereneing.....	372,817	Nov. 8	815	218	41	630
Snap-hook.....	J. F. Sears and H. E. Kelley.....	375,571	Dec. 27	1992	518	41	1457
Snap-hook.....	C. H. Smith.....	359,407	Mar. 15	1416	363	38	1179
Snap-hook.....	A. N. Sperry.....	359,408	Mar. 15	1418	363	38	1179
Snap-hook.....	S. S. Stahl.....	370,983	Oct. 4	372	93	41	74
Snap-hook.....	T. R. Ferrall.....	373,972	Nov. 29	2541	683	41	983
Snatch-block.....	W. W. Patterson.....	360,041	Mar. 29	2435	619	38	1388
Snow. Apparatus for loading.....	J. P. Luyster.....	370,345	Sept. 20	1481	396	40	1329
Snow. Apparatus for scraping and heaping.....	J. P. Luyster.....	368,404	Aug. 16	1534	410	40	761
Snow excavator and automatic dumper.....	G. E. Nichols.....	367,837	Aug. 9	730	197	40	598
Snow-excavator. Railway.....	F. J. Newman and J. S. Greene.....	357,498	Feb. 8	1881	286	38	632
Snow-guard.....	W. Rudnicki.....	361,783	Apr. 26	1999	{ 519 520 }	{ 39 38 }	395
Snow hoisting and melting device.....	P. A. Miller and J. P. Luyster.....	368,412	Aug. 16	1554	414	40	764
Snow. Machine for cleaning railway-tracks of.....	J. M. Hendershot.....	361,626	Apr. 19	1770	{ 457 458 }	{ 39 38 }	347
Snow-melter.....	T. B. Woodward.....	361,739	Apr. 26	1930	501	39	383
Snow-plow.....	P. B. Brazel.....	367,694	Aug. 2	508	140	40	546
Snow-plow.....	A. E. Dietz.....	365,055	June 21	1240	326	39	1336
Snow-plow.....	O. U. Guinand.....	364,818	June 14	888	{ 233 234 }	{ 39 38 }	1261

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Snow-plow	H. Pangborn	365,197	June 21	1442	380	37	1373
Snow-plow	I. C. Pingree	355,471	Jan. 4	235	62	38	48
Snow-plow	A. Roberts	358,624	Mar. 1	307	73	38	960
Snow-plow	J. G. Roberts	364,135	May 31	2942	764	39	1059
Snow-scraper	G. A. Birch	360,196	Mar. 29	2695	681	38	1435
Snow-shoe attachment	B. C. Woodbury	375,522	Dec. 27	1917	502	41	1444
Snow-shovel	J. R. McLaren, Jr.	368,102	Aug. 9	1107	294	40	669
Snow-shovel. Excavating	G. A. and J. K. Collins and M. C. } Burnside.	370,377	Sept. 27	1541	{ 412 413 }	{ 40 40 }	1348
Snow-sweeper	W. H. Barrows	370,231	Sept. 20	1326	354	40	1299
Snow-sweeper	N. Campbell	375,338	Dec. 27	1678	441	41	1397
Soap and other substances. Machine for mixing	A. Doll	356,991	Feb. 1	345	92	38	486
Soap-holder	W. F. Morrison	373,471	Nov. 22	1806	481	41	834
Soap-holder. Revolving	H. M. Avers and J. M. Pease	364,566	June 7	514	139	39	1184
Soap. Making	M. O'Hara	371,093	Oct. 4	513	.....	41	101
Soap-making apparatus	W. A. Grant	370,330	Sept. 20	1458	392	40	1325
Soap-press	W. T. Schuberth	359,637	Mar. 22	1794	456	38	1265
Soap-stamping machine	J. Harris	358,117	Feb. 22	1999	526	38	815
Sock, glove, &c	C. S. Pusey	361,080	Apr. 12	988	250	39	189
Soda and mineral waters. Dispensing apparatus for	G. A. Hearn, Jr.	360,221	Mar. 29	2727	{ 690 691 }	{ 38 38 }	1441
Soda by ammonia. Apparatus for the manufacture of	A. Droit	369,104	Aug. 30	2548	677	40	971
Soda by ammonia. Process of and apparatus for the manufacture of	H. Frasch	361,622	Apr. 19	1757	{ 455 456 }	{ 39 39 }	344
Soda by the ammonia process. Manufacture of	H. Frasch	361,355	Apr. 19	1389	{ 357 358 }	{ 39 39 }	273
Soda. Manufacture of bicarbonate of	J. Hawliczek	357,824	Feb. 15	1587	.....	38	735
Soda. Manufacture of caustic	E. Solvay	362,677	May 10	868	.....	39	612
Soda-motor	A. J. Grafenstatt and W. Tweedie	357,592	Feb. 15	1241	327	38	672
Soda-water apparatus	F. H. Lippincott	375,452	Dec. 27	1829	478	41	1426
Sodium bicarbonate. Process of and apparatus for making	E. Solvay	364,552	June 7	497	134	39	1181
Sodium carbonate by ammonia. Process of and apparatus for making	H. Frasch	363,952	May 31	2679	{ 695 696 697 }	{ 39 39 39 }	1007
Sofa and bed lounge	J. P. Miller	361,639	Apr. 19	1784	462	39	350
Sofa or divan. Reclining	W. J. Maddox	365,266	June 21	1544	403	39	1391
Soil. Implement for stirring the	G. Blechschmidt	368,644	Aug. 23	1879	501	40	834
Soil-pipe ventilator	J. W. Griffin	358,262	Feb. 22	2199	579	38	853
Solder for vent-holes. Prepared	E. Norton	364,664	June 14	638	171	39	1216
Solder. Manufactured	E. Norton	364,663	June 14	637	171	39	1216
Soldering-hopper	E. J. Dolan	359,962	Mar. 22	2301	579	38	1357
Soldering-iron	H. C. Mylander	371,534	Oct. 11	1124	293	41	228
Soldering-iron	C. G. Schneider	369,617	Sept. 6	423	119	40	1115
Soldering-iron heater	W. Mellor	370,552	Sept. 27	1803	480	40	1395
Soldering-machine	P. Eley	356,196	Jan. 18	1290	341	38	261
Soldering-machine	W. M. Emmart	362,150	May 3	134	40	39	499
Soldering-machine	S. C. Morris	358,163	Feb. 22	2064	{ 543 544 }	{ 38 38 }	827
Soldering-machine	J. F. Ross	356,730	Jan. 25	2041	536	38	411
Soldering machine. Can-	W. D. Brooks. (Reissue)	10,835	May 17	1805	{ 473 474 }	{ 39 39 }	828
Soldering machine. Can-	T. H. Hamilton	359,723	Mar. 22	1914	{ 485 486 }	{ 38 38 }	1287
Soldering machine. Can-	C. W. Sleeper	372,871	Nov. 8	891	{ 239 240 }	{ 41 41 }	644
Soldering machine. Can-	C. W. Sleeper	372,872	Nov. 8	896	241	41	544
Soldering machine. Can-	W. H. H. Stevenson	366,271	July 12	716	194	40	143
Soldering machine. Can-	F. Westerbeck	358,516	Mar. 1	136	34, 35	38	929
Soldering machine. Can-cap-	J. G. Hodgson	356,469	Jan. 25	1676	439	38	343
Soldering machine. Can-cap-	E. Norton	365,316	June 21	1613	{ 420 421 }	{ 39 39 }	1404
Soldering-tool	H. Brasch	365,293	June 21	1582	412	39	1398
Soldering-tool	J. J. Henry	371,841	Oct. 18	1577	407	41	329
Soldering-tool	C. L. Wagandt and J. S. Hull	371,806	Oct. 18	1522	{ 392 393 }	{ 41 41 }	317
Sole-channeling knife	E. P. Seward	364,139	May 31	2948	765	39	1060
Sole-edge-burnishing machine	W. Gordon	364,585	June 7	538	144	39	1189
Sole-edge-setting machine	A. Kelsey	366,669	July 19	1267	338	40	257
Sole-edge-trimming tool	W. A. Bond	375,334	Dec. 27	1670	439	41	1396
Sole-fastening wire	L. Goddu	370,136	Sept. 20	1200	317	40	1275
Sole-laying machine	N. P. Clark and H. D. Stone	368,131	Aug. 9	1142	303	40	676
Sole-laying machine	W. R. Goodwin	367,905	Aug. 9	836	223	40	618
Sole-laying machine	W. S. Hamm	375,549	Dec. 27	1963	511	41	1452
Sole-laying machine	C. E. Holland	362,447	May 3	526	147	39	576
Sole-laying machine	A. Seaver and W. S. Hamm	368,496	Aug. 16	1685	449	40	788
Sole-linings. Tool for inserting	J. Keith	374,074	Nov. 29	2686	721	41	1012
Sole or heel trimming machine	C. H. Trask	357,743	Feb. 15	1473	{ 386 387 }	{ 38 38 }	713
Sole. Sectional metallic	P. J. Sullivan	355,897	Jan. 11	860	224	38	174
Sole trimming and channeling machine	J. C. Ivory	361,159	Apr. 12	1115	{ 282 283 }	{ 39 39 }	212
Soles and heels. Manufacture of	C. L. Cotton	374,042	Nov. 29	2636	707	41	1002
Sound-recording apparatus	C. J. Hohenstein	356,877	Feb. 1	193	53	38	457
Sound-waves. Recording and reproducing	L. Bock, Jr.	364,472	June 7	378	103	39	1159
Sower. Broadcast seed-	W. L. Miller	367,830	Aug. 9	723	194	40	596
Sower. Broadcast seed-	G. Stevenson	356,698	Jan. 25	1996	524	38	404
Sower. Broadcast seed-	H. L. and G. F. Whitman	373,870	Nov. 29	2393	643	41	954
Sower. Hand seed-	W. E. Love	364,424	June 7	302	83	39	1146
Sower. Seed-	M. Freeman	364,005	May 31	2759	716	39	1023
Sower. Wheelbarrow grass-seed	G. V. H. Whitbeck	373,162	Nov. 15	1334	355	41	734
Spade	H. C. Pittenger	357,408	Feb. 8	955	252	38	608
Spark and smoke conductor	J. Howe	360,883	Apr. 12	695	183	39	136

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Spark-arrester	J. C. Albrecht	357,357	Feb. 8	881	{ 231 232	{ 38	594
Spark-arrester	F. S. Bragg	365,234	June 21	1489	392	39	1382
Spark-arrester	C. S. Detro	371,179	Oct. 11	634	162	41	133
Spark-arrester	W. F. Elkins	356,243	Jan. 14	1353	357	38	274
Spark-arrester	L. C. Hartsough	369,934	Sept. 13	883	234	40	1210
Spark-arrester	J. H. Reader	358,986	Mar. 8	841	213	38	1064
Spark-arrester	W. T. Reed	364,857	June 14	943	249	39	1272
Spark-arrester	J. H. Swartzbaugh	366,135	July 5	525	141	40	99
Spark-arrester	J. H. Swartzbaugh	374,562	Dec. 6	569	149	41	1156
Spark-arrester	J. M. C. Tyner	369,483	Sept. 6	231	65	40	1077
Spark-arrester	W. Wilson	361,738	Apr. 26	1929	500	39	383
Spark-arrester for smoke-stacks	M. M. Wilson	365,114	June 21	1328	352	39	1351
Speaking-tube	E. Becker	356,091	Jan. 18	1149	304	38	236
Speaking-tube	A. S. Fontaine	357,589	Feb. 15	1237	325	38	671
Speaking-tube	C. L. Wagandt	375,586	Dec. 27	2017	524	41	1462
Speaking-tube attachment	J. E. Kelly	369,340	Sept. 6	45	14	40	1043
Speaking-tube attachment	G. H. Phelps	360,469	Apr. 5	102	26	39	20
Speaking-tube. Carriage	G. A. Beach	363,979	May 31	2730	707	39	1017
Speaking-tubes. Mouth-piece for	P. McGunnigle	374,746	Dec. 13	821	215	41	1216
Spectacle-bows. Joint for	H. A. Ludwig and P. S. Reid	355,830	Jan. 11	747	195	38	153
Spectacle-bridge	J. M. Dupaul	362,613	May 10	772	213	39	624
Spectacle-bridges. Cushion-securing device for	G. W. Wells	361,385	Apr. 19	1431	370	39	282
Spectacle-case holder	A. H. Palmerton	358,566	Mar. 1	232	54	38	946
Spectacle-frame	W. R. Johnston	357,392	Feb. 8	935	246	38	605
Spectacle-frame	J. L. Newell	365,090	June 21	1290	341	39	1345
Spectacle-frame	D. O'Hara	359,172	Mar. 8	1074	279	38	1109
Spectacle-frame	W. Ramsay	368,852	Aug. 23	2182	579	40	892
Spectacle-frames. Manufacture of	D. O'Hara	359,171	Mar. 8	1072	279	38	1109
Spectacle-joint	P. Moews	361,831	Apr. 26	2068	538	39	408
Spectacle-joint	F. Scheidig	367,552	Aug. 2	286	80	40	505
Spectacle nose-guard	W. H. Eccleston and L. E. Sibley	375,541	Dec. 27	1944	508	41	1449
Spectacle-temple	R. Bradley, Jr.	373,006	Nov. 8	1094	292	41	680
Spectacle-temple	W. J. Suttie	372,437	Nov. 1	226	63	41	513
Spectacles	C. B. Bishop	372,954	Nov. 8	1009	272	41	665
Spectacles	L. Hammel	362,377	May 3	427	119	39	558
Spectacles	L. Hammel	363,632	May 24	2223	576	39	916
Spectacles	P. S. Reid	363,484	May 24	2005	523	39	875
Spectacles. Nose-piece for	J. J. Frawley	357,121	Feb. 1	558	145	38	525
Speculum	J. R. Hamilton	373,361	Nov. 15	1646	436	41	791
Speculum	J. W. McCall	357,216	Feb. 8	698	180	38	559
Speculum	R. S. Packson	355,709	Jan. 11	567	149	38	121
Speculum	J. P. Schenck	361,087	pr. 12	995	252	39	190
Speculum	K. G. Smith	367,248	July 26	2061	556	40	414
Speculum	J. E. Woodbridge	357,163	Feb. 1	624	161	38	536
Speech and other sounds. Apparatus for recording and reproducing	C. S. Tainter	375,579	Dec. 27	2002	{ 520 521 522	{ 41	1459
Speed-changing mechanism	J. Johnston	371,265	Oct. 11	754	{ 193 194	{ 41	156
Speed. Device for changing	C. H. French and A. T. Gifford	360,383	Mar. 29	2968	752	38	1485
Speed-governor	A. Dieu	367,604	Aug. 2	362	102	40	520
Speed-governor	J. J. Logan	367,418	Aug. 2	85	23	40	467
Speed-governor. Centrifugal	R. McKenna	361,251	Apr. 12	1246	318	39	237
Speed-governor for elevators, &c.	W. E. Nickerson	374,080	Nov. 29	2698	724	41	1014
Speed indicator and register	C. Sperry	372,875	Nov. 8	901	{ 242 243	{ 41	645
Speed-indicator for vessels	C. Sperry	372,874	Nov. 8	899	242	41	645
Speed-regulating machine	J. F. Mullaney	368,302	Aug. 16	1406	371	40	735
Speed-regulator	C. E. Barrett	369,272	Aug. 30	2753	{ 734 735	{ 40	1014
Speed-regulator	A. Campbell	361,128	Apr. 12	1057	268	39	201
Speed-regulator for revolving motors. Electric	F. Van Rysselberghe	370,575	Sept. 27	1837	489	40	1401
Spider	B. E. Sperry	367,250	July 26	2063	556	40	414
Spike	J. S. Pessenger	370,650	Sept. 27	1949	516	40	1423
Spike-point	S. A. McLean	364,767	June 14	805	212	39	1246
Spike-puller	F. P. West	359,194	Mar. 8	1106	288	38	1114
Spikes. Machine for making	J. North	371,472	Oct. 11	1038	270	41	211
Spikes. Re-enforce for	S. A. McLean	364,766	June 14	803	212	39	1246
Spinal-distortion apparatus	J. McComber	369,803	Sept. 13	668	181	40	1170
Spindle:							
<i>See Spinning-spindle.</i>							
Spindle and bearing therefor	O. H. McKeldin	357,847	Feb. 15	1616	420	38	740
Spindle-driving bands. Tension-regulating device for	A. McDonald	363,405	May 24	1873	492	39	849
Spindle-step	C. S. Trask. (Reissue)	10,840	May 31	3055	795	39	1089
Spindles. Band for driving	J. J. Heywood	367,041	July 26	1756	474	40	356
Spindles. Mechanism for reversing rotation of reciprocating	J. W. Strong	358,795	Mar. 1	545	134	38	1005
Spinning and doubling machine. Silk	H. Renard	358,299	Feb. 22	2251	594	38	864
Spinning and twisting cords. Machine for	M. and T. J. Peters and W. John	365,447	June 28	1820	473	39	1455
Spinning and twisting machines. Drawing mechanism for	E. E. Baker	372,056	Oct. 25	1904	491	41	398
Spinning and twisting machines. Thread-guard for cap	L. Binns	359,007	Mar. 8	872	221	38	1069
Spinning-bobbin, &c.	L. C. Baldwin	366,196	July 12	607	165	40	123
Spinning frame and spindle used therefor. Ring-	C. H. Chapman	357,903	Feb. 15	1687	439	38	753
Spinning-frame ring	G. J. Carter	355,506	Jan. 4	274	72	38	55
Spinning frames. Cop-building mechanism for ring-	A. Ball	374,816	Dec. 13	924	241	41	1236
Spinning-frames. Roving-guide for	F. A. Thomas	365,280	June 21	1567	408	39	1395
Spinning hemp. Machine for	H. S. Dix	373,818	Nov. 29	2324	623	41	941
Spinning-machine	G. W. Cumnock	370,324	Sept. 20	1450	389	40	1323
Spinning-machine	H. J. Woodman	364,742	June 14	750	199	39	1237
Spinning-machine bobbin	G. R. Holt	369,942	Sept. 13	892	237	40	1211
Spinning machine. Cordage	E. M. Fulton	361,057	Apr. 12	953	241	39	181

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Spinning machine. Ring.....	G. W. Shoemaker.....	357,864	Feb. 15	1639	426	38	744
Spinning-machine spindle-support.....	G. Draper.....	363,373	May 24	1831	482	39	841
Spinning-machine spindle-support.....	W. F. Draper.....	362,944	May 17	1247	331	39	718
Spinning-machine spindle-support.....	W. Hinchliffe.....	361,359	Apr. 19	1397	359	39	275
Spinning-machine spindle-support.....	A. R. Sherman.....	363,425	May 24	1909	501	39	856
Spinning-machine spindle-support.....	A. Wood.....	364,880	June 14	976	256	39	1278
Spinning-machines. Bobbin-catch for.....	I. L. Allen.....	373,261	Nov. 15	1483	392	41	762
Spinning-machines. Flier for.....	L. E. Leigh.....	356,229	Jan. 18	1340	353	38	271
Spinning-machines. Flier for.....	J. A. V. Smith.....	356,336	Jan. 18	1490	392	38	300
Spinning machines. Kink-preventer for silk.....	T. H. Hood.....	364,516	June 7	435	117	39	1170
Spinning machines, &c. Ring and traveler for ring.....	J. Tatham.....	358,995	Mar. 8	854	216	38	1066
Spinning-machines, &c. Ring-rail for.....	A. F. Jenks.....	355,823	Jan. 11	738	192	38	152
Spinning-machines, &c. Saddle for drawing-rolls of.....	E. C. Willey.....	359,654	Mar. 22	1815	461	38	1269
Spinning-machines. Saddle for top rolls of.....	E. Dixon.....	369,504	Sept. 6	257	72	40	1083
Spinning-machines. Saddle for the top rolls of.....	C. A. Dresser.....	355,981	Jan. 11	986	259	38	200
Spinning-machines, &c. Saddle for the top rolls of.....	E. C. Willey.....	356,183	Jan. 18	1272	336	38	258
Spinning-machines. Sliver-breaker for.....	H. E. Kay and C. F. Hill.....	355,452	Jan. 4	204	55	38	41
Spinning-machines. Spindle-banding and band-tightener for.....	R. Gemmell.....	356,117	Jan. 18	1188	314	38	243
Spinning-machines. Spindle-driving mechanism for.....	T. Clarke and R. C. Williams.....	375,605	Dec. 27	2045	530	41	1466
Spinning-machines. Spindle-driving mechanism for.....	C. H. Fisher.....	356,355	Jan. 18	1516	398 399	38	305
Spinning-machines. Spindle-support for.....	J. H. Northrop.....	355,656	Jan. 4	488	130	38	95
Spinning machines. Thread-forming device for silk.....	L. Camel.....	361,129	Apr. 12	1061	268	39	202
Spinning-machines, &c. Thread-guide for.....	H. R. Mitchell and J. E. Jenckes.....	360,969	Apr. 12	826	211	39	158
Spinning-machines. Tightener for spindle-bands of.....	W. and S. Blackburn.....	356,239	Jan. 18	1350	356	38	273
Spinning-machines, &c. Top drawing-roller for.....	J. Wilcock.....	363,035	May 17	1381	365	39	744
Spinning-machines, &c. Traveler-ring for.....	G. D. Edmands.....	368,821	Aug. 23	2136	566	40	883
Spinning-machines, &c. Tube-washer for.....	C. Brigg.....	361,859	Apr. 26	2116	548	39	417
Spinning-machines. Yarn-separating device for.....	G. E. Taft.....	365,155	June 21	1386	366	39	1362
Spinning-mule.....	W. Hackaley.....	357,990	Feb. 15	1808	474 475	38	776
Spinning-mule.....	E. Wright.....	370,840	Oct. 4	123	33 34 35	41	25
Spinning or twisting machine. Electric.....	A. S. Kimball and G. L. Brownell.....	371,199	Oct. 11	662	169	41	139
Spinning-ring holder.....	J. Booth.....	370,234	Sept. 20	1328	355	40	1300
Spinning-spindle and bolster therefor.....	J. D. Colby.....	357,066	Feb. 1	457	121	38	506
Spinning-spindle and support therefor.....	J. Booth.....	359,342	Mar. 15	1313	341	38	1160
Spinning-spindle and support therefor.....	J. Booth. (Reissue).....	10,884	Nov. 29	2808	754	41	1034
Spinning-spindle and support therefor.....	C. H. Fisher.....	356,356	Jan. 18	1520	399	38	306
Spinning-spindle and support therefor.....	G. A. Metcalf.....	373,841	Nov. 29	2354	632	41	947
Spinning-spindle bolster.....	W. T. Carroll.....	357,977	Feb. 15	1796	471	38	774
Spinning-spindle support.....	W. T. Carroll.....	360,277	Mar. 29	2815	715	38	1458
Spinning-spindle support.....	R. C. Fay.....	373,650	Nov. 22	2086	557	41	887
Spinning-spindles. Bearing for.....	W. F. Draper.....	372,524	Nov. 1	346	95	41	536
Spinning-spindles. Bearing for.....	J. W. Wattles.....	372,729	Nov. 8	660	181	41	604
Spinning-spindles. Bolster for.....	C. G. Buttrick and T. B. Flanders.....	361,611	Apr. 19	1738	449	39	340
Spinning-spindles. Bolster for.....	C. H. Chapman.....	357,904	Feb. 15	1689	440	38	754
Spinning-spindles. Bolster for.....	T. H. Logan.....	375,709	Dec. 27	2194	571	41	1493
Spinning-spindles. Cap for foot-steps for.....	G. Pickford and E. Jagger.....	357,226	Feb. 8	711	183	38	562
Spinning-spindles. Support for.....	W. T. Carroll.....	364,897	June 14	1004	263	39	1283
Spinning-spindles. Support for.....	W. T. Carroll.....	368,069	Aug. 9	1063	284	40	661
Spinning-spindles. Support for.....	W. T. Carroll.....	372,838	Nov. 8	845	225	41	635
Spinning-spindles. Support for.....	J. W. Wattles.....	365,417	June 28	1770	460	39	1447
Spinning-spindles. Support for.....	A. Wood.....	371,404	Oct. 11	948	245	41	192
Spiral springs. Tool for making.....	J. T. B. Sidén.....	360,623	Apr. 5	334	82	39	64
Spirit and regenerating the purifying agent. Apparatus for purifying crude.....	I. A. F. Bang and M. C. A. Ruffin.....	370,674	Sept. 27	1984	528	40	1429
Spirit. Purifying crude.....	I. A. F. Bang and M. C. A. Ruffin.....	370,675	Sept. 27	1986	528	40	1430
Spittoon and water-closet. Combined.....	P. White and A. Jacobs.....	363,494	May 24	2019	526	39	878
Spittoon. Fountain.....	J. M. Fletcher.....	369,174	Aug. 30	2631	698	40	989
Spittoon. Hearth.....	W. D. Smith.....	365,872	July 5	161	42	40	33
Spittoon-lifter.....	O. G. Nosker.....	367,722	Aug. 2	563	154	40	557
Spittoons. Casing for.....	J. F. Langenberg.....	356,252	Jan. 18	1365	360	38	277
Splints. Manufacture of.....	J. E. Lee.....	366,120	July 5	506	137	40	96
Spoke-socket.....	L. D. Warren.....	370,432	Sept. 27	1617	431	40	1361
Spoke-socket for vehicle-wheels.....	T. S. Miller.....	360,812	Apr. 5	585	153	39	110
Spoke-throating machine.....	O. Allen.....	368,868	Aug. 23	2199	585	40	896
Spokeshave.....	S. Benson.....	357,898	Feb. 15	1681	437	38	752
Spokeshave.....	J. H. Polhemus.....	368,003	Aug. 9	978	263	40	645
Sponge-cup.....	B. F. Fertick.....	375,057	Dec. 20	1293	337	41	1312
Sponge holder or handle.....	W. P. Pinel.....	363,674	May 24	2277	590	39	927
Spool.....	O. Cate.....	366,073	July 5	443	120	40	83
Spool.....	J. W. Cumnock and E. Skillings.....	370,121	Sept. 20	1177	312	40	1270
Spool.....	G. D. Leonard.....	368,675	Aug. 23	1928	512	40	845
Spool.....	L. O. Smith.....	358,705	Mar. 1	425	103	38	983
Spool.....	C. H. Watson.....	366,800	July 19	1444	386	40	289
Spool-blanks. Machine for manufacturing.....	H. J. Hovey and G. R. Hardison.....	372,372	Nov. 1	131	39	41	495
Spool-guard.....	L. O. Smith.....	370,716	Sept. 27	2054	545	40	1442
Spool-holder.....	H. G. K. Anderson.....	368,700	Aug. 23	1969	522	40	852
Spool-holder.....	A. B. Bartholomew.....	366,552	July 12	1086	293	40	216
Spool-holder.....	C. T. Cagle.....	358,727	Mar. 1	455	111	38	988
Spool-holder.....	S. C. Catlin.....	359,712	Mar. 22	1899	482	38	1284
Spool-holder.....	W. P. Clarke.....	359,430	Mar. 15	1455	372	38	1186
Spool-holder.....	G. N. Cross.....	363,728	May 24	2359	612	39	942
Spool-holder.....	F. J. Hall.....	363,330	May 17	1778	466	39	821
Spool-holder.....	M. S. Keator.....	362,972	May 17	1292	343	39	727
Spool-holder.....	G. Lander.....	372,917	Nov. 8	957	259	41	656
Spool or bobbin.....	F. M. Marcy.....	366,415	July 12	898	242	40	178
Spool or bobbin. Enameled.....	S. D. Keene.....	359,447	Mar. 15	1475	377	38	1190
Spools. Tension device for.....	J. W. West.....	358,313	Feb. 22	2267	598	38	867
Spools. Unwinding attachment for.....	C. E. Wilkinson.....	371,291	Oct. 11	789	202	41	163

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Spoolers and winders. Stop-motion mechanism for ..	T. C. Entwistle	360,868	Apr. 12	674	{ 176 177	{ 39	132
Spooling and winding machines. Thread-guiding and tension-regulating device for ..	A. W. Mathewson	369,868	Sept. 13	778	208	40	1190
Spooling-machines. Stop-motion mechanism for	L. C. Billings and A. W. Parkhurst	375,598	Dec. 27	2031	527	41	1464
Spooling-machines. Thread-severing stop for	J. T. Willmarth	375,467	Dec. 27	1849	{ 483 484	{ 41	1430
Spoon-holder	A. W. Hanington	370,942	Oct. 4	303	74	41	60
Spoon. Medicine	E. Guion	358,197	Feb. 22	2119	559	38	838
Spout. Sap	C. A. Burr	363,280	May 17	1708	446	39	809
Spring:							
<i>See</i> Ambulance-spring. Elliptic spring.							
Bed-spring. Leaf-spring.							
Bustle-spring. Open-head spring.							
Car-spring. Railway-rail spring.							
Carriage-spring. Vehicle-spring.							
Door-spring. Wagon-spring.							
Driving-spring. Watch-case spring.							
Spring	W. I. Bunker	373,386	Nov. 15	1679	445	41	799
Spring	G. Goewey	359,070	Mar. 8	947	242	38	1084
Spring	J. Harrington	360,588	Apr. 5	287	70	39	55
Spring	S. A. Kilmer	361,298	Apr. 19	1313	337	39	261
Spring-clasp	L. Stein	362,189	May 3	181	54	39	509
Spring-clasp	J. L. Thomson and J. J. Unbehend	368,433	Aug. 16	1586	423	40	771
Spring-clasp	J. J. Unbehend	368,501	Aug. 16	1691	450	40	789
Spring-clasp	J. J. Unbehend	368,630	Aug. 23	1864	498	40	832
Spring-cushion	G. W. Murray	358,563	Mar. 1	229	53	38	946
Spring-jack switch	C. E. Scribner	357,538	Feb. 8	1153	302	38	645
Spring-key	O. Smith	362,548	May 10	674	189	39	607
Spring-motor	W. R. Fowler	359,068	Mar. 8	945	241	38	1084
Spring-motor	A. F. George	370,779	Oct. 4	43	11	41	11
Spring-motor	S. E. Hughes	358,668	Mar. 1	370	88	38	972
Spring-motor	E. Nichols and D. W. Clark	355,621	Jan. 4	423	{ 116 117	{ 38	84
Spring-motor	J. B. Powell	367,234	July 26	2041	550	40	410
Spring-motor	R. H. Speake	360,739	Apr. 5	487	124	39	91
Spring-motor	H. H. Thomas and J. W. Woodward	362,555	May 10	681	191	39	608
Spring-roller	E. Gres	374,060	Nov. 29	2667	717	41	1008
Spring-seat	H. S. Hale	371,448	Oct. 11	1008	262	41	205
Spring-strap. Adjusting	T. O. Potter	367,727	Aug. 2	573	156	40	559
Springs, &c. Apparatus for forming	J. N. Short	375,577	Dec. 27	2000	520	41	1459
Springs. Machine for fastening the extremities of spiral	H. Spühl	363,092	May 17	1454	385	39	759
Springs. Support for elliptic	W. Cole	373,516	Nov. 22	1895	502	41	850
Sprinkler:							
<i>See</i> Automatic sprinkler. Sulphur-sprinkler.							
Clothes-sprinkler. Water-sprinkler.							
Lawn-sprinkler.							
Sprinkler	T. M. Murphy	366,974	July 19	1669	449	40	332
Sprinkler	T. M. Murphy	367,762	Aug. 2	617	167	40	567
Sprinkler	C. D. Parks	358,693	Mar. 1	408	98	38	979
Sprinkler	C. H. Shaffer	367,322	July 26	2168	583	40	433
Sprinkler	W. Wainwright	357,799	Feb. 15	1551	404	38	728
Sprinkler for horticultural and other purposes	J. B. Warren	368,259	Aug. 16	1348	{ 355 356	{ 40	723
Sprinkling apparatus	G. F. Jaisle	361,293	Apr. 19	1303	334	39	259
Sprinkling-pot	W. Discho	361,143	Apr. 12	1084	274	39	206
Sprinkling vines and plants. Apparatus for	T. Wickersham	364,790	June 14	848	222	39	1253
Sprocket-wheel	G. B. Norgrave	366,600	July 12	1168	313	40	231
Sprocket wheel and cable	M. Garland	366,472	July 12	965	263	40	192
Sprout-puller	B. F. Todd	367,328	July 26	2177	585	40	435
Spur. Horseman's	F. J. Herrick	356,039	Jan. 11	1062	279	38	215
Square and bevel. Try	E. P. Kendall	360,161	Mar. 29	2649	669	38	1426
Square and bevel. Combined	O. K. Patterson	360,465	Apr. 5	97	25	39	19
Square and gage attachment for rules. T	G. F. Hall	356,533	Jan. 25	1764	459	38	359
Square, beam-compass, level, and gage. Combined bevel	B. F. Van Amringe	363,491	May 24	2014	525	39	877
Square, calipers, and dividers. Combined	W. Kline and J. C. Jadicke	357,487	Feb. 8	1068	282	38	630
Square, calipers, &c. Combined try	J. Gilmer	367,290	July 26	2128	573	40	425
Square. Center	S. Darling	371,740	Oct. 18	1429	369	41	299
Square. Drafting	W. Ward	368,797	Aug. 23	2102	556	40	876
Square. Folding	E. Douglas	363,321	May 17	1764	462	39	819
Square. Framing	G. A. Staples	370,215	Sept. 20	1305	348	40	1295
Square-gage	T. J. Gillette	373,929	Nov. 29	2474	664	41	970
Square, surface-gage, and level. Combined try	G. Nicolescu	369,547	Sept. 6	318	88	40	1095
Square holder. T	A. J. Weed	375,030	Dec. 20	1257	328	41	1306
Square, miter-bevel, and level. Combined	J. Carson	363,988	May 31	2742	711	39	1020
Square. Tailor's or dress-maker's	W. Smith	367,455	Aug. 2	134	38, 39	40	477
Square. Try	S. Darling	366,652	July 19	1242	332	40	253
Square. Try	J. N. Draughon	371,878	Oct. 18	1640	423	41	340
Squares. Attachment for	C. D. Janssen and W. De Voe	357,771	Feb. 15	1522	396	38	722
Squares. Attachment for	J. Klif	366,404	July 12	888	239	40	176
Squares. Circle-scribing attachment for	W. F. Seargeant	366,890	July 19	1564	419	40	312
Squaring, leveling, &c. Combination-tool for	D. W. Warnock	359,372	Mar. 15	1357	351	38	1168
Stacker	M. A. Heinlen	372,147	Oct. 25	2044	523	41	423
Stacker	D. G. Woodworth	366,443	July 12	929	253	40	185
Stacker. Folding	C. Saunders	373,610	Nov. 22	2025	538	41	874
Stacks. Thatched cover for	R. Griswold	358,195	Feb. 22	2116	558	38	837
Staff-holder	J. Husband	361,630	Apr. 19	1775	459	39	348
Stage effects. Apparatus for producing	G. W. Davis	359,243	Mar. 15	1181	308	38	1136
Stage or scaffold bracket	J. F. Locke	365,830	July 5	98	27	40	20
Stair-pad	J. M. Baker	363,353	May 24	1810	475	39	837
Stair-pad	T. S. Sperry	363,695	May 24	2314	600	39	933
Stair-pad	T. S. Sperry	372,941	Nov. 8	988	267	41	661

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Stair-pad	W. E. Turner	356,905	Feb. 1	229	63	38	463
Stair-rod and carpet securer	T. S. Smith	362,794	May 10	1041	283	39	674
Stair-rod fastener	F. A. Phillippi	357,855	Feb. 15	1627	423	38	742
Stairs, doorsteps, mats, &c. Tread of	J. Hendra and W. Gooding	364,717	June 14	719	191	39	1232
Stairway	F. O. Hanson	367,974	Aug. 9	932	252	40	637
Stairway. Knockdown spiral	F. Heidland	367,296	July 26	2139	{ 575 576 }	{ 40 39 }	427
Stairways. Construction of	P. Rieseck	362,537	May 10	655	185	39	604
Staking-tool	A. M. Lane	374,365	Dec. 6	281	75	41	1099
Stalactites and grotto-work. Composition of matter for making imitations of	M. Boog	371,027	Oct. 4	427	-----	41	85
Stalk-cutter	B. S. Kennett	371,462	Oct. 11	1026	267	41	209
Stalk-cutter	L. M. Reed	371,627	Oct. 18	1257	327	41	263
Stalk-cutter	E. Towns	358,368	Feb. 22	2340	620	38	880
Stalk-cutting machine	T. H. Killingsworth	365,821	July 5	84	24	40	18
Stalk-knocker	W. A. Allen	372,735	Nov. 8	667	183	41	606
Stalk or weed chopper	A. D. and B. F. Gilpin	370,616	Sept. 27	1903	505	40	1414
Stall. Cattle	J. Gibbs	369,333	Sept. 6	31	9	40	1041
Stall. Swinging stable	A. V. Hartle	374,249	Dec. 6	112	28	41	1068
Stamp-affixing device	I. Randall	361,450	Apr. 19	1517	392	39	299
Stamp-canceler	D. J. Harding	355,647	Jan. 4	478	128	38	94
Stamp. Canceling	N. A. Bush	367,269	July 26	2089	564	40	419
Stamp. Hand	W. C. Crozier	368,572	Aug. 23	1786	475	40	817
Stamp. Hand	H. L. Erskine	357,587	Feb. 15	1234	325	38	671
Stamp. Hand	A. D. Joslin	373,589	Nov. 22	1995	{ 529 530 }	{ 41 40 }	868
Stamp. Hand	W. Orcutt	366,789	July 19	1430	382	40	286
Stamp. Hand	E. Reynolds	370,211	Sept. 20	1301	346	40	1294
Stamp. Hand	L. K. Scotford	356,732	Jan. 25	2044	537	38	412
Stamp. Hand	F. Sholes	360,736	Apr. 5	483	123	39	90
Stamp-mills. Guide for	J. D. Peregrine	373,092	Nov. 15	1223	327	41	715
Stamp or label dampener	L. B. Bertram	371,025	Oct. 4	425	106	41	85
Stamp. Pocket	L. Ehrlich	357,473	Feb. 8	1050	278	38	626
Stamp. Registering post-office	W. H. Johnson	367,714	Aug. 2	553	151	40	555
Stamps and labels. Apparatus for applying postage	G. Phillips	359,326	Mar. 15	1292	335	38	1156
Stamps, &c. Case for postage	A. J. Kay	358,277	Feb. 22	2222	586	38	858
Stamps. Inking-pad for	E. Reynolds	358,482	Mar. 1	90	22	38	920
Stamps, &c. Protector for postage and other	H. W. Birge	363,795	May 31	2452	637	39	966
Stamping apparatus. Mail	G. W. Hey and E. Laass	356,406	Jan. 18	1584	417	38	318
Stamping apparatus. Mail	E. Laass and G. W. Hey	356,228	Jan. 18	1334	{ 352 353 }	{ 38 38 }	270
Stanchion	D. J. Barnes	360,265	Mar. 29	2797	712	38	1455
Stanchion	W. H. Youngs	356,086	Jan. 11	1134	300	38	227
Stanchion. Cattle	F. W. Ballard	368,180	Aug. 16	1221	327	40	699
Stanchion. Cattle	E. H. Haley	356,281	Jan. 18	1406	371	38	284
Stanchion. Cattle	D. Manwaring	364,030	May 31	2796	724	39	1031
Stanchion. Cattle	J. S. McCartney	363,902	May 31	2600	676	39	993
Stanchion. Cattle	J. Priest	356,728	Jan. 25	2039	535	38	411
Stanchion. Cattle	G. W. Russell	361,785	Apr. 26	2002	520	39	396
Stanchion. Cattle	A. W. Streeter	373,252	Nov. 15	1471	389	41	759
Stand:							
See Album-stand.	Garment-stand.						
Barrel-stand.	Inkstand.						
Blacking-stand.	Ironing-stand.						
Boiler-stand.	Lamp-stand.						
Bottle show-stand.	Music-stand.						
Calendar-stand.	Railway switch-stand.						
Camera-stand.	Sewing machine stand.						
Cigar-stand.	Show-stand.						
Convertible stand.	Switch-stand.						
Core-stand.	Switch and signal stand.						
Display-stand.	Tripod stand.						
Flat-iron stand.	Umbrella-stand.						
Flower-stand.	Wash-stand.						
Stand for displaying goods	J. S. Gold	355,988	Jan. 11	992	261	38	202
Stand for displaying goods	N. B. Haynes	366,316	July 12	776	209	40	155
Stand-pipe	T. J. Collins	362,610	May 10	767	211	39	623
Staple-driver	W. W. Bloodworth	373,265	Nov. 15	1487	392	41	762
Staple-drivers. Device for automatically supplying staples to independent or detachable	I. W. Heysinger	363,957	May 31	2697	{ 698 699 }	{ 39 39 }	1010
Staple-driving tool	A. Mattson	367,537	Aug. 2	264	75	40	502
Staple-extractor	F. Squier	356,697	Jan. 25	1996	524	38	403
Staple-fastener	F. A. Smith, Jr.	363,011	May 17	1453	384	39	759
Staple-machine	J. H. Vinton	372,096	Oct. 25	1969	506	41	409
Staple-protecting iron	C. H. Bungarz	369,392	Sept. 6	115	34	40	1055
Staple-strip blank	F. F. Raymond, 2d	358,985	Mar. 8	840	212	38	1064
Staples. Implement for driving and clinching	W. Young and C. M. Wetzel	362,346	May 3	382	106	39	548
Staples. Machine for cutting and forming	W. G. Morgan	375,375	Dec. 27	1728	453	41	1406
Staples. Machine for inserting and clinching metallic	W. J. Brown, Jr.	369,916	Sept. 13	849	225	40	1204
Staples. Machine for making wire	A. W. Parmelee	362,530	May 10	646	182	39	603
Starch. Apparatus for cooking	H. A. Coats	374,346	Dec. 6	252	67	41	1094
Starch. Manufacture of	S. Spitzer	361,788	Apr. 26	2006	522	39	397
Starch. Manufacturing	G. S. and R. W. Graves	362,502	May 10	611	173	39	596
Starch-polish	J. Hochhacker and R. Sulzer	363,235	May 17	1648	-----	39	797
Starching-machine	J. E. Hayes	371,263	Oct. 11	751	193	41	156
Starching-machine	F. M. Watkins	372,189	Oct. 25	2107	540	41	435
Station-indicator	G. H. Bade	359,121	Mar. 8	1014	262	38	1097
Station-indicator	G. H. Bade	367,580	Aug. 2	327	94	40	514
Station-indicator	F. H. Cheyne	371,737	Oct. 18	1425	368	41	298
Station-indicator	W. D. Doremus	361,146	Apr. 12	1088	{ 276 277 278 }	{ 39 39 39 }	206
Station-indicator	J. W. Duffer and C. Weston	365,736	June 28	2259	{ 588 589 }	{ 39 39 }	1539

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Station-indicator	R. Fyfe	375,348	Dec. 27	1691	{ 444 445 }	{ 41 41 }	1399
Station-indicator	S. H. Harrod and S. T. Lamb	367,392	Aug. 2	51	13	40	460
Station-indicator	T. W. Munroe	375,326	Dec. 20	1659	435	41	1385
Station-indicator	R. H. Neumann	375,186	Dec. 20	1476	{ 386 387 }	{ 41 41 }	1349
Station-indicator	C. Olsen	367,114	July 26	1863	504	40	376
Station-indicator	J. W. Post	370,410	Sept. 27	1583	423	40	1356
Station-indicator	H. L. Shidler	359,329	Mar. 15	1296	336	38	1157
Station-indicator	T. D. Smith	367,861	Aug. 9	764	205	40	605
Station-indicator and calendar	F. C. Jones	365,184	June 21	1425	375	39	1369
Station-indicator. Automatic	C. W. May	374,484	Dec. 6	448	{ 116 117 }	{ 41 41 }	1131
Station-indicators. Automatic mechanism for	T. W. Munroe	375,182	Dec. 20	1472	385	41	1348
Station or street indicator	I. H. Miller	363,162	May 17	1554	409	39	779
Stationery-case. Portable	J. F. Tannatt	361,847	Apr. 26	2095	544	39	413
Stave crozing and chamfering machine	J. Greenwood	373,736	Nov. 22	2198	588	41	910
Stave-crozing machine	J. W. Callahan	367,890	Aug. 9	806	{ 217 218 }	{ 40 40 }	613
Stave-jointing and planing machine	C. R. Penfield	374,317	Dec. 6	210	56	41	1085
Stave-jointing machine	G. W. McKim	357,615	Feb. 15	1270	334	38	677
Stave-jointing machine	J. J. Philbrick	360,617	Apr. 5	327	80, 81	39	62
Stave-machine	C. L. Goehring	361,869	Apr. 26	2130	{ 552 553 }	{ 39 39 }	420
Stave-machine	E. A. Riggs and F. Gleason	374,630	Dec. 13	664	174	41	1184
Stave-shaping machine	C. L. Goehring	358,260	Feb. 22	2196	578	38	852
Staves. Machine for manufacturing barrel	J. J. Philbrick	362,901	May 10	1184	{ 317 318 }	{ 39 39 }	700
Stay. Garment-	E. C. Bowling	362,568	May 10	701	195	39	612
Stay. Garment-	E. C. Bowling	372,593	Nov. 1	455	122	41	556
Steam, air, or water heater	W. W. Dashiell	367,601	Aug. 2	357	101	40	520
Steam and heating rooms. Apparatus for generating	O. A. Stempel	363,305	May 17	1741	456	39	815
Steam and hot-air furnace. Combined	F. Shriver	361,842	Apr. 26	2085	543	39	412
Steam and hot-water boiler	J. Mason	355,699	Jan. 11	552	145	38	118
Steam and hot-water boiler	W. R. Parks	364,848	June 14	931	246	39	1269
Steam and water boiler	J. C. and G. B. Gibbons	364,100	May 31	2888	749	39	1049
Steam. Apparatus for separating oil and grease from	S. Stuart	362,191	May 3	182	55	39	509
Steam-boiler	E. B. Birge	356,914	Feb. 1	238	66	38	465
Steam-boiler	A. D. Brock	370,723	Sept. 27	2068	548	40	1444
Steam-boiler	A. D. and F. B. Brock	371,030	Oct. 4	429	108	41	85
Steam-boiler	W. H. Burdick	362,422	May 3	491	139	39	570
Steam-boiler	J. A. Caldwell	359,558	Mar. 15	1655	423	38	1223
Steam-boiler	R. L. Carr and M. C. Yarwood	373,798	Nov. 22	2290	613	41	926
Steam-boiler	M. L. Clinton	372,519	Nov. 1	339	93, 94	41	535
Steam-boiler	L. D. Copeland	360,759	Apr. 5	512	132	39	96
Steam-boiler	A. M. Coyle	365,971	July 5	304	80	40	58
Steam-boiler	D. A. Dickinson	356,103	Jan. 18	1167	309	38	239
Steam-boiler	E. G. Durant, A. D. Linn, and A. Shupe	365,173	June 21	1413	372	39	1367
Steam-boiler	H. L. Earle, H. F. Snedigar, and J. A. Pement	369,697	Sept. 13	532	147	40	1145
Steam-boiler	J. Gamgee	369,402	Sept. 6	130	38	40	1057
Steam-boiler	O. H. Gentry	375,282	Dec. 20	1597	419	41	1373
Steam-boiler	C. J. M. Hayna	369,448	Sept. 6	190	54	40	1068
Steam-boiler	G. Kingsley	362,844	May 10	1100	{ 297 298 }	{ 39 39 }	685
Steam-boiler	M. Kirwan	367,983	Aug. 9	942	255	40	639
Steam-boiler	F. F. Landis	372,855	Nov. 8	868	232	41	639
Steam-boiler	W. B. Le Van	367,818	Aug. 9	704	190	40	592
Steam-boiler	H. H. Lindemuth	373,836	Nov. 29	2348	{ 630 631 }	{ 41 41 }	946
Steam-boiler	M. Mahony	365,141	June 21	1372	363	39	1359
Steam-boiler	F. D. Maltby	360,233	Mar. 29	2749	{ 697 698 }	{ 38 38 }	1445
Steam-boiler	N. Metz	374,688	Dec. 13	737	193	41	1200
Steam-boiler	J. A. Mumford	368,679	Aug. 23	1933	514	40	846
Steam-boiler	P. Reilly	359,814	Mar. 22	2061	522	38	1313
Steam-boiler	W. D. Rich	361,083	Apr. 12	991	251	39	189
Steam-boiler	G. H. Sellers and W. Malam	372,572	Nov. 1	426	114	41	551
Steam-boiler	N. F. Sawyer	360,053	Mar. 29	2460	626	38	1393
Steam-boiler	H. Stanton	363,017	May 17	1355	358	39	739
Steam-boiler	H. Stanton	368,624	Aug. 23	1856	496	40	830
Steam-boiler	G. H. Sutherland	355,665	Jan. 4	502	133	38	98
Steam-boiler	H. Swihart	369,302	Aug. 30	2801	747	40	1023
Steam-boiler	H. Weitzel	373,954	Nov. 29	2512	676	41	977
Steam-boiler	A. L. Wheeler	359,699	Mar. 22	1881	478	38	1281
Steam-boiler. Portable	J. R. Mitchell and F. X. Fischer	364,839	June 14	920	244	39	1267
Steam-boiler. Radial-tube	E. S. T. Kennedy	375,324	Dec. 20	1656	{ 434 435 }	{ 41 41 }	1384
Steam-boiler safety-plug	J. Bewsher	375,041	Dec. 20	1272	332	41	1308
Steam-boiler. Sectional	W. Lurkins	366,850	July 19	1517	406	40	303
Steam-boiler. Sectional	F. Prox	365,759	June 28	2291	595	39	1549
Steam-boilers. Try-gage for	G. W. Rodgers	355,886	Jan. 11	838	220	38	170
Steam-condensing appliance	A. L. Kirkland and T. A. Lynch	368,402	Aug. 16	1532	409	40	760
Steam-cylinder jacket	R. Creuzbaur	369,922	Sept. 13	860	{ 227 228 }	{ 40 40 }	1206
Steam-drier	C. H. Hersey	360,525	Apr. 5	194	48	39	38
Steam-engine	C. R. Arnold	364,627	June 14	592	{ 159 160 }	{ 39 39 }	1207
Steam-engine	J. A. Arthur	375,689	Dec. 27	2167	564	41	1488
Steam-engine	C. H. Benton	370,919	Oct. 4	273	67	41	54
Steam-engine	G. W. Bigelow	374,034	Nov. 29	2624	704	41	1000
Steam-engine	C. F. Chandler	357,655	Feb. 15	1338	352	38	688
Steam-engine	L. D. Copeland	360,761	Apr. 5	514	133	39	96

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Steam-engine.....	R. Creuzbaur.....	358,843	Mar. 8	624	{ 154 155	{ 38	1024
Steam-engine.....	R. Creuzbaur.....	358,844	Mar. 8	626	{ 155 156	{ 38	1025
Steam-engine.....	R. Creuzbaur.....	358,845	Mar. 8	632	157	38	1026
Steam-engine.....	R. Creuzbaur.....	358,846	Mar. 8	636	158	38	1026
Steam-engine.....	R. Creuzbaur.....	365,797	July 5	50	15	40	11
Steam-engine.....	W. B. Culver.....	373,444	Nov. 22	1763	{ 467 468	{ 41	826
Steam-engine.....	T. L. Dennis.....	358,598	Mar. 1	277	65	38	954
Steam-engine.....	G. E. Dow.....	358,435	Mar. 1	15	5	38	906
Steam-engine.....	J. Ericsson.....	374,354	Dec. 6	265	70, 71	41	1097
Steam-engine.....	W. Esty.....	355,814	Jan. 11	724	189	38	149
Steam-engine.....	W. Esty.....	367,029	July 26	1740	469	40	353
Steam-engine.....	J. H. Fogarty.....	369,511	Sept. 6	267	74	40	1085
Steam-engine.....	F. A. Gardner.....	368,762	Aug. 23	2057	545	40	868
Steam-engine.....	C. Gibbs.....	356,934	Feb. 1	263	72	38	470
Steam-engine.....	W. S. Halsey.....	359,926	Mar. 22	2244	{ 564 565	{ 38	1346
Steam-engine.....	W. M. Henderson.....	362,078	May 3	34	10	39	479
Steam-engine.....	H. L. Hopkins.....	361,063	Apr. 12	961	243	39	183
Steam-engine.....	S. E. Jarvis.....	373,072	Nov. 15	1195	319	41	709
Steam-engine.....	J. T. Kenworthy, D. Sexton, and A. Thompson.....	359,160	Mar. 8	1061	276	38	1107
Steam-engine.....	W. Lowrie.....	361,169	Apr. 12	1129	285	39	214
Steam-engine.....	A. H. Messer.....	364,363	June 7	213	59	39	1129
Steam-engine.....	A. Nelson.....	355,335	Jan. 4	59	16, 17	38	13
Steam-engine.....	B. C. Pole.....	371,214	Oct. 11	680	{ 175 176	{ 41	143
Steam-engine.....	F. C. Roberts.....	364,374	June 7	228	64	39	1132
Steam-engine.....	C. E. Robertson.....	357,231	Feb. 8	720	186	38	563
Steam-engine.....	A. Rosenkranz.....	361,598	Apr. 19	1721	{ 444 445	{ 39	336
Steam-engine.....	F. W. Ross and C. P. Henrikson.....	363,300	May 17	1735	454	39	814
Steam-engine.....	P. S. Rush.....	368,974	Aug. 30	2359	{ 626 627	{ 40	935
Steam-engine.....	W. Schmidt.....	369,033	Aug. 30	2442	648	40	951
Steam-engine.....	W. S. Sharpneck.....	367,119	July 26	1870	506	40	377
Steam-engine.....	E. S. Smith.....	366,894	July 19	1569	420	40	313
Steam-engine.....	G. Smith.....	360,057	Mar. 29	2465	628	38	1394
Steam-engine.....	W. Steers.....	357,423	Feb. 8	976	{ 256 257	{ 38	612
Steam-engine.....	H. A. Tobey.....	369,303	Aug. 30	2802	747	40	1023
Steam-engine.....	I. A. Turner.....	361,602	Apr. 19	1727	445	39	337
Steam-engine.....	A. J. Vandegrift.....	367,476	Aug. 2	162	46, 47	40	483
Steam-engine.....	J. Walrath.....	366,440	July 12	925	{ 251 252	{ 40	184
Steam-engine.....	H. H. Westinghouse.....	373,323	Nov. 15	1576	417	41	779
Steam-engine and shaft-hanger.....	J. T. Case.....	373,880	Nov. 29	2409	647	41	957
Steam-engine attachment.....	J. H. C. Bachelder.....	360,644	Apr. 5	357	90	39	68
Steam-engine. Compound.....	T. W. Worsdell.....	360,834	Apr. 5	619	164	39	116
Steam-engine. Compound.....	M. Young.....	369,674	Sept. 6	503	138	40	1131
Steam-engine. Compound single-acting.....	R. Creuzbaur.....	369,923	Sept. 13	864	{ 228 229	{ 40	1206
Steam-engine cross-head.....	E. J. Armstrong.....	372,102	Oct. 25	1976	508	41	410
Steam-engine. Direct-acting.....	M. N. and E. P. Lynn.....	366,122	July 5	509	{ 137 138	{ 40	96
Steam-engine. Direct-acting.....	M. N. and E. P. Lynn.....	366,228	July 12	655	{ 178 179	{ 40	131
Steam-engine. Disk.....	J. C. Telfer.....	359,906	Mar. 22	2212	557	38	1340
Steam-engine indicator.....	A. C. Meady.....	375,086	Dec. 20	1337	349	41	1322
Steam-engine indicator.....	J. Rae.....	366,252	July 12	694	189	40	139
Steam-engine link.....	C. M. Farrar.....	370,938	Oct. 4	298	73	41	59
Steam-engine. Oscillating.....	J. Clark.....	371,250	Oct. 11	730	187	41	152
Steam-engine piston.....	A. MacLaine.....	373,936	Nov. 29	2482	666	41	971
Steam-engine. Rotary.....	W. H. Bright.....	368,927	Aug. 30	2295	610	40	923
Steam-engines. Apparatus for indicating the direc- tion of rotation of.....	J. W. Herquet.....	374,067	Nov. 29	2676	{ 718 719	{ 41	1010
Steam-engines. Apparatus for stopping.....	O. Noll.....	370,644	Sept. 27	1942	514	40	1422
Steam-engines. Oil-trap for.....	F. F. Ide.....	365,259	June 21	1536	401	39	1390
Steam-engines. Piston for.....	W. Dixon and S. Thompson.....	362,729	May 10	940	256	39	656
Steam-engines. Piston-head for.....	J. McCart.....	357,777	Feb. 15	1529	298	38	723
Steam-engines. Reverse-gear for.....	G. W. Cushing.....	357,308	Feb. 8	825	215	38	583
Steam generating and heating apparatus.....	H. M. Young.....	358,824	Mar. 1	590	{ 146 147	{ 38	1013
Steam-generating apparatus.....	S. Smith.....	364,868	June 14	960	253	39	1275
Steam-generating furnace.....	W. Gerkhardt.....	365,253	June 21	1530	399	39	1388
Steam-generating furnace.....	D. S. Marsh.....	368,346	Aug. 16	1460	389	40	746
Steam-generator.....	G. W. Baird.....	368,642	Aug. 23	1876	500	40	834
Steam-generator.....	A. M. Bowers.....	367,181	July 26	1953	527	40	393
Steam-generator.....	V. Colliau.....	356,988	Feb. 1	342	90	38	486
Steam-generator.....	J. E. Culver.....	368,573	Aug. 23	1787	476	40	817
Steam-generator.....	J. E. Culver.....	372,360	Nov. 1	111	33, 34	41	492
Steam-generator.....	W. H. Farris.....	364,403	June 7	272	76, 77	39	1140
Steam-generator.....	R. G. Ferguson.....	356,827	Feb. 1	113	31	38	444
Steam-generator.....	S. Fiske.....	361,216	Apr. 12	1199	305	39	227
Steam-generator.....	J. E. Gillespie.....	368,332	Aug. 16	1443	383	40	742
Steam-generator.....	A. L. Gilstrap.....	365,000	June 14	1149	301	39	1309
Steam-generator.....	C. P. Higgins.....	364,348	June 7	194	54	39	1125
Steam-generator.....	H. C. Holloway.....	369,405	Sept. 6	133	38	40	1057
Steam-generator.....	G. A. Karwiese.....	365,820	July 5	82	24	40	17
Steam-generator.....	W. E. Kelly.....	371,766	Oct. 18	1461	{ 378 379	{ 41	306
Steam-generator.....	O. F. Knapp.....	366,223	July 12	647	175	40	130

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Steam-generator	D. H. McCarty	366,496	July 12	1001	272	40	199
Steam-generator	W. G. Merrill and C. W. Conklin	357,019	Feb. 1	384	{ 102 103 104 }	38	493
Steam-generator	I. H. Murdick	361,228	Apr. 12	1221	{ 310 311 }	39	232
Steam-generator	A. Musil	373,783	Nov. 22	2267	608	41	922
Steam-generator	J. C. Nichols	365,934	July 5	253	67	40	49
Steam-generator	E. E. Roberts	371,710	Oct. 18	1388	358	41	291
Steam-generator	J. B. Stanwood	359,333	Mar. 15	1301	337	38	1157
Steam-generator	A. B. Thomas	375,580	Dec. 27	2009	522	41	1460
Steam-generator	H. H. Ward	359,193	Mar. 8	1105	287	38	1114
Steam-generator	H. N. Wass	366,283	July 12	730	198	40	145
Steam-generator	J. Waters	362,558	May 10	685	192	39	609
Steam-generator	J. Waters	365,889	July 5	184	47	40	36
Steam-generator	J. Webster	368,361	Aug. 16	1480	394	40	750
Steam-generator	W. H. White and J. W. Chamberlain	375,033	Dec. 20	1260	329	41	1306
Steam generator and radiator. Combined	R. G. Ferguson	370,012	Sept. 13	1010	267	40	1231
Steam-generator. Multiple	I. M. Chase	363,802	May 31	2466	{ 640 641 }	39	969
Steam-generators. Drum-head and manifold for sectional	G. H. Babcock and C. P. Higgins	368,564	Aug. 23	1777	473	40	815
Steam-generators. Drum-head and manifold for sectional	G. H. Babcock and C. P. Higgins	368,565	Aug. 23	1778	473	40	815
Steam-heater	J. H. Baker and G. F. Shevlin	355,807	Jan. 11	711	186	38	147
Steam-heater	J. H. Baker and G. F. Shevlin	355,808	Jan. 11	712	186	38	147
Steam-heater regulator	H. K. Kriebel	363,470	May 24	1979	516	39	869
Steam, hot-water, and hot-air heater. Combined	H. H. Lindemuth	373,835	Nov. 29	2346	630	41	945
Steam-motor	H. Davey	357,468	Feb. 8	1043	276	38	625
Steam-motor	H. E. Doggett	364,225	June 7	36	12	39	1095
Steam or hot-water boiler	J. McKinlay	374,615	Dec. 13	643	{ 168 169 }	41	1180
Steam or hot-water generator	R. J. Malcolm	365,347	June 21	1661	434	39	1414
Steam or water motor	J. T. Case	373,922	Nov. 29	2467	662	41	968
Steam purifying apparatus	S. T. Holmes	360,591	Apr. 5	291	71	39	56
Steam-separator	W. Irving	358,356	Feb. 22	2326	617	38	878
Steam-separator	E. P. Stratton	375,463	Dec. 27	1842	482	41	1429
Steam steering-engine	W. C. Williamson	371,016	Oct. 4	414	104	41	83
Steam-trap	S. Bonser	370,600	Sept. 27	1878	498	40	1408
Steam-trap	J. C. Haggett	363,631	May 24	2222	576	39	916
Steam-trap	S. H. Howland	363,641	May 24	2233	578	39	918
Steam-trap	E. M. Ivens	358,556	Mar. 1	220	51	38	944
Steam-trap	J. Kane	363,243	May 17	1656	435	39	799
Steam-trap	W. M. Klinefelter	373,833	Nov. 29	2344	629	41	945
Steam-trap	I. S. McDougall and T. Sugden	368,101	Aug. 9	1106	293	40	669
Steam-trap	J. Motley	366,861	July 19	1529	410	40	305
Steam-trap	J. J. Royle	367,851	Aug. 9	751	202	40	602
Steam-trap	J. H. Sewall	363,552	May 24	2103	545	39	893
Steam-trap. Thermostatic	N. Curtis	363,731	May 24	2363	613	39	943
Steam. Utilizing exhaust	R. H. F. and N. H. Sewall	372,713	Nov. 8	632	172	41	600
Steamboat. River	G. L. J. Simpson	374,635	Dec. 13	671	176	41	1186
Steamboats. Propelling-wheel for	M. Gregg	360,521	Apr. 5	189	46	39	37
Steamer	D. K. Keohane	367,639	Aug. 2	417	117	40	531
Steamer and roaster. Combined	E. A. Reed	374,755	Dec. 13	834	{ 218 219 }	41	1219
Steamer. Feed	E. Hoover and J. F. Winans	370,787	Oct. 4	51	13	41	12
Steel and other metals. Composition of matter for tempering, toughening, and improving the qualities of	L. U. Bean	373,430	Nov. 22	1748	.....	41	822
Steel. Apparatus for manufacturing	B. Bayliss, Jr.	361,256	Apr. 19	1255	{ 320 321 }	39	250
Steel. Eliminating carbon from	E. D. Wassell	361,795	Apr. 26	2014	.....	39	399
Steel forgings. Manufacture of	R. Bagaley	356,974	Feb. 1	322	87	38	482
Steel-plant	V. O. Strobel	361,653	Apr. 19	1807	469	39	354
Steel plates. Manufacture of tinned	W. H. Brown	367,594	Aug. 2	346	99	40	518
Steel sheets. Manufacture of planished	J. G. Beale	364,568	June 7	517	140	39	1185
Steel. Welding	W. B. Middleton	372,696	Nov. 8	609	.....	41	595
Steering apparatus	C. Terrell	370,828	Oct. 4	102	27, 28	41	22
Steering apparatus. Steam	L. W. and N. Lombard	372,691	Nov. 8	604	164	41	594
Steering apparatus. Steam	S. G. Martin	360,603	Apr. 5	306	75	39	58
Steering device and brake for vessels. Combined	J. C. Witmer	367,771	Aug. 2	633	170	40	570
Steering-gear for ships, &c.	O. Adams	370,844	Oct. 4	140	38	41	28
Steering ships. Machinery for	W. C. Williamson	358,419	Feb. 22	2409	{ 640 641 }	38	894
Stencil	B. R. Lowenson	373,838	Nov. 29	2351	631	41	946
Stencil-plate	G. P. Weller	360,637	Apr. 5	348	87	39	66
Stencil-plates. Die for cutting	J. L. Haberling	365,066	June 21	1258	331	39	1339
Stencils. Compartment-case for interchangeable lock	S. G. Monce	373,086	Nov. 15	1217	325	41	714
Stencils. Frame for holding	C. E. Marsh	375,371	Dec. 27	1725	452	41	1405
Stenciling. Apparatus for	W. Q. Prewitt	371,969	Oct. 25	1770	459	41	375
Stenographer's practice-sheet	W. L. Jenkins	356,474	Jan. 25	1686	440	38	345
Step	A. H. Nicholas	368,896	Aug. 23	2239	596	40	904
Stereoscope	J. B. Ferry	366,823	July 19	1475	393	40	295
Stereoscope	G. D. Horton	365,256	June 21	1534	400	39	1389
Stereotype-blocks. Attachment for	R. B. Nicol	359,625	Mar. 22	1777	452	38	1261
Stereotype-matrices. Machine for making	J. H. White	374,438	Dec. 6	378	{ 99 100 }	41	1118
Stereotype-plate-finishing machine	G. E. Lloyd and C. S. Partridge	369,192	Aug. 30	2648	704	40	993
Stereotype-plate holder	W. P. Martin	361,306	Apr. 19	1324	340	39	263
Stereotype-plates. Base for	L. Klopsch	360,307	Mar. 29	2854	727	38	1466
Stereotype-plates. Clamp for securing	W. Filmer	374,667	Dec. 13	714	188	41	1195
Stethoscope	F. M. Blodgett	359,382	Mar. 15	1389	355	38	1173
Stethoscope	H. P. Pratt	370,711	Sept. 27	2042	543	40	1440

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Still.	G. P. Harris	368,208	Aug. 16	1259	336	40	706
Stilt	W. B. Loveland	356,366	Jan. 18	1532	403	38	308
Stirring or mixing apparatus	L. Stauffert	364,059	May 31	2830	734	39	1038
Stirrup	J. Bull	367,696	Aug. 2	512	141	40	547
Stirrup	W. S. Cardell	365,238	June 21	1496	393	39	1384
Stirrup	J. E. Collins	368,193	Aug. 16	1237	331	40	702
Stirrup	D. B. Comly	356,748	Feb. 1	12	4	38	425
Stirrup	N. C. Jones	355,695	Jan. 11	547	144	38	117
Stirrup	G. Nixon	374,992	Dec. 20	1206	314	41	1297
Stirrup	J. W. Stallcup	375,103	Dec. 20	1366	356	41	1326
Stirrup	J. P. Walker	374,021	Nov. 29	2606	699	41	996
Stirrup. Safety saddle	J. H. Gibson	358,603	Mar. 1	284	67	38	956
Stitch-ripper	F. E. Doughty	370,456	Sept. 27	1656	441	40	1368
Stitching-horse	E. Jones	371,198	Oct. 11	661	168	41	138
Stitching. Machine for forming over-edge	A. C. Saxton	358,574	Mar. 1	241	56, 57	38	948
Stitching machines. Cutting mechanism for button-hole	F. W. Ostrom	367,315	July 26	2160	581	40	431
Stock-indicator	A. B. Smith	358,896	Mar. 8	718	{ 177 178 }	{ 38 38 }	1041
Stock-releasing device. Live-	G. H. Thompson	355,668	Jan. 4	505	134	38	98
Stocking	N. T. Folsom	369,637	Sept. 6	452	126	40	1121
Stocking	J. H. Place	356,080	Jan. 11	1124	297	38	225
Stocking and knitting the same	J. H. Hinchliffe	374,408	Dec. 6	334	87, 88	41	1110
Stocking and manufacturing the same	P. and F. B. Bartlett	355,910	Jan. 11	876	229	38	178
Stocking. Elastic	C. F. Bennett	361,042	Apr. 12	937	236	39	178
Stocking-supporter	A. J. Arthur and S. W. Gray	369,678	Sept. 13	510	141	40	1141
Stocking-supporter	F. P. Butman	372,401	Nov. 1	172	49	41	502
Stocking-supporter	S. J. Schack	367,448	Aug. 2	124	36	40	475
Stockings and hose. Making	T. C. Clow	358,383	Feb. 22	2364	628	38	885
Stockings and hose. Manufacturing	H. B. Quimby and T. C. Clow	355,790	Jan. 11	693	181	38	143
Stockings, &c. Device for darning	C. C. Gale	370,775	Oct. 4	34	8	41	9
Stockings. Making	E. G. Chester	365,671	June 28	2158	562	39	1521
Stockings. Making cut	W. H. Pepper	372,170	Oct. 25	2072	531	41	428
Stoker. Mechanical	J. Hodgkinson	359,676	Mar. 22	1847	469	38	1275
Stone and cement. Manufacture of artificial	H. Bacon	368,269	Aug. 16	1360	.....	40	725
Stone and manufacturing. Artificial	J. S. Peirce	369,959	Sept. 13	920	244	40	1216
Stone and ore breaker	S. L. Marsden	361,173	Apr. 12	1135	287	39	215
Stone and ore crusher	D. Brennan, Jr	357,568	Feb. 15	1209	319	38	666
Stone. Artificial	N. H. Mosher	362,851	May 10	1109	.....	39	686
Stone. Artificial	J. Thompson and J. H. Bryant	359,908	Mar. 22	2214	.....	38	1340
Stone clamp and dowel	H. Berge	365,427	June 28	1785	{ 464 465 }	{ 39 39 }	1449
Stone. Cleaning the surfaces of	E. McCarthy	370,551	Sept. 27	1803	.....	40	1395
Stone. Composition bath for treating slate or other porous	A. J. Cushman	367,372	Aug. 2	24	.....	40	456
Stone, &c. Composition for artificial	J. Lorinz	366,012	July 5	366	.....	40	69
Stone, &c. Composition for artificial	A. Von Gersheim	363,864	May 31	2553	.....	39	985
Stone. Compound for artificial	G. R. Williams	362,594	May 10	743	.....	39	618
Stone-cutting machine	D. Brereton	370,119	Sept. 20	1172	{ 310 311 }	{ 40 40 }	1269
Stone-cutting saw	J. W. Maloy	357,214	Feb. 8	696	180	38	559
Stone-dressing hammer	J. S. Squires	365,707	June 28	2207	576	39	1530
Stone-dressing machines. Cutter-head for	J. Marr and D. J. Spellman	368,218	Aug. 16	1286	{ 340 341 }	{ 40 40 }	711
Stone flower. Cut	F. Stickel	357,425	Feb. 8	978	257	38	612
Stone. Initial	H. Dreyfus	359,717	Mar. 22	1909	484	38	1286
Stone-laying jack	J. H. Libbe	362,982	May 17	1304	346	39	729
Stone. Machine for curve-sawing in	J. W. Maloy	364,834	June 14	910	241	39	1266
Stone. Machine for dressing	W. T. Harvey	371,885	Oct. 18	1648	{ 425 426 }	{ 41 41 }	342
Stone, &c. Making a smooth surface on	J. S. MacCoy	373,746	Nov. 22	2212	592	41	913
Stone-saw	E. G. Kemper	356,136	Jan. 18	1213	322	38	248
Stone-saw	J. Peckover	369,958	Sept. 13	919	244	40	1216
Stone-saw gang and sand-feed combined	C. W. Green	371,313	Oct. 11	821	{ 209 210 }	{ 41 41 }	168
Stone-saw mill	F. Jenkinson	366,727	July 19	1350	{ 361 362 }	{ 40 40 }	272
Stone-saw mill	F. Jenkinson	366,728	July 19	1353	362	40	273
Stone-saw sash. Adjustable	W. Walter	361,033	Apr. 12	922	234	39	176
Stone. Sawing	H. Young	364,458	June 7	360	99	39	1157
Stone. Sawing	H. Young	364,459	June 7	362	99	39	1157
Stone-sawing machine	E. Foerster. (Reissue)	10,844	June 14	1202	317	39	1318
Stone-sawing machine	J. B. Gilchrist	361,219	Apr. 12	1206	{ 306 307 }	{ 39 39 }	229
Stone-sawing machine	T. A. Jackson	361,011	Apr. 12	892	{ 225 226 }	{ 39 39 }	169
Stone-sawing machine	T. A. Jackson	370,790	Oct. 4	55	14	41	13
Stone-sawing machine	J. W. Maloy	364,833	June 14	908	{ 240 241 }	{ 39 39 }	1265
Stone-sawing machine	W. Murphy	369,463	Sept. 6	210	59	40	1072
Stone-sawing machine	A. E. North and W. K. Sheldon	373,300	Nov. 15	1544	408	41	772
Stone-sawing machine	J. Peckover	366,023	July 5	382	103	40	71
Stone-sawing machine	G. M. Viernow	372,996	Nov. 8	1073	287	41	677
Stoneware, &c. Composition for the manufacture of	R. C. Remmey	357,410	Feb. 8	957	.....	38	608
Stone work. Jointer for artificial	G. F. Gray	361,692	Apr. 26	1869	485	39	373
Stones. Machine for gathering	J. Van Hosen	373,110	Nov. 15	1246	332	41	719
Stool. Adjustable	R. E. Hammer	358,660	Mar. 1	355	85	38	970
Stool and sewing-machine cover. Combined	H. C. Robertson	368,008	Aug. 9	985	264	40	647
Stool. Coffin or casket	B. G. Casler	358,836	Mar. 8	615	{ 152 153 }	{ 38 38 }	1023
Stool. Folding	E. H. Forssell	361,279	Apr. 19	1283	329	39	255
Stool. Folding	H. F. Henry	362,379	May 3	429	119	39	552
Stool. Folding	G. J. Saurbrey	366,884	July 19	1556	417	40	311
Stool. Folding pocket	G. M. Kazanjian	361,527	Apr. 19	1613	418	39	318

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Stool for stores. Counter-	J. Danner	372,841	Nov. 8	851	227	41	636
Stool. Milking-	A. B. Cowan	359,921	Mar. 22	2235	562	38	1344
Stool. Piano-	C. E. Davis	374,175	Dec. 6	20	5	41	1050
Stool. Piano-	F. Neppert	360,169	Mar. 29	2658	671	38	1427
Stool-seat	H. Ocorr	370,081	Sept. 20	1110	294	40	1258
Stool. Store-	J. S. Dunlap	358,024	Feb. 22	1852	490	38	789
Stool. Vertically-adjustable.	C. A. Hammermiller	366,479	July 12	975	265	40	194
Stop-motion	W. S. McKinney	356,847	Feb. 1	147	39	38	450
Stop or curb box	G. A. Warner	358,515	Mar. 1	134	34	38	928
Stopper:							
<i>See</i> Basin-stopper.	Oil-can stopper.						
Bottle-stopper.	Vent-stopper.						
Can-stopper.							
Hawse and dock-pipe stopper.							
Stopper-fastener	G. H. Wetzel	363,870	May 31	2560	664	39	986
Stopper-fastener	S. S. Woodbury	355,748	Jan. 11	628	164	38	133
Storage-floor	W. Jones	359,159	Mar. 8	1060	276	38	1107
Storage-warehouse and storing materials	P. G. Hubert	372,850	Nov. 8	861	230	41	638
Store-fixture	S. Gilzinger	357,918	Feb. 15	1706	445	38	757
Store-service	W. R. Cole	369,772	Sept. 13	628	170	40	1162
Store-service apparatus	B. C. Algie	356,341	Jan. 18	1501	394	38	302
Store-service apparatus	I. Birgé	356,978	Feb. 1	330	88	38	483
Store-service apparatus	I. Birge	366,145	July 5	536	144 145	40	101
Store-service apparatus	J. F. Camp	370,180	Sept. 20	1260	335	40	1287
Store-service apparatus	J. F. Camp	373,268	Nov. 15	1491	394	41	763
Store-service apparatus	A. L. Clark	359,203	Mar. 8	1115	291	38	1116
Store-service apparatus	C. W. Elliott	374,295	Dec. 6	172	44, 45	41	1079
Store-service apparatus	H. H. Fuller	359,207	Mar. 8	1124	293	38	1117
Store-service apparatus	E. F. Geering	370,778	Oct. 4	41	10	41	10
Store-service apparatus	E. Hamburjer	374,062	Nov. 29	2669	717	41	1008
Store-service apparatus	H. C. Hart	362,443	May 3	519	145	39	575
Store-service apparatus	H. C. Hart and H. Yoe	362,444	May 3	521	145 146	39	575
Store-service apparatus	G. W. Kuehn	371,952	Oct. 25	1743	451	41	369
Store-service apparatus	J. C. Martin	368,219	Aug. 16	1287	341 342	40	711
Store-service apparatus	R. A. McCarty and H. Yoe	371,962	Oct. 25	1761	456	41	373
Store-service apparatus	E. P. Osgood	357,851	Feb. 15	1622	421	38	741
Store-service apparatus. Carrier for	D. Lippy	365,394	June 28	1744	452	39	1441
Store-service apparatus for twine	A. J. Chase	365,794	July 5	46	14	40	10
Store-service apparatus for twine	A. J. Chase	373,881	Nov. 29	2411	648	41	957
Store-service switch	D. H. Rice	361,374	Apr. 19	1416	366	39	279
Store-service track	F. E. Fisher	355,604	Jan. 4	398	108	38	79
Store-service ways. Support for	H. Thomas	368,028	Aug. 9	1004	270	40	651
Stove	B. A. Baxter	361,666	Apr. 26	1835	475	39	367
Stove	V. S. Bekofsky	358,640	Mar. 1	326	78, 79	38	964
Stove	M. E. Birnbaum	360,197	Mar. 29	2696	681	38	1435
Stove	T. Burkhard	359,314	Mar. 15	1274	330	38	1153
Stove	T. Burkhard	362,199	May 3	192	57	39	510
Stove	E. Bussey	363,281	May 17	1709	447	39	809
Stove	E. Butler	359,532	Mar. 15	1610	412	38	1215
Stove	T. Caswell	366,926	July 19	1605	430	40	320
Stove	J. F. Hess, F. H. Snyder, L. Hess, J. F. and C. F. Snyder.	356,686	Jan. 25	1980	520	38	401
Stove	W. J. Keep	368,770	Aug. 23	2066	548	40	870
Stove	C. Kibler, Jr.	357,961	Feb. 15	1767	463	38	768
Stove	C. Kibler, Jr.	367,640	Aug. 2	419	117	40	531
Stove	J. M. Laube	371,465	Oct. 11	1029	268	41	209
Stove	G. H. Mütter	358,470	Mar. 1	68	18	38	916
Stove	M. L. Ramey	369,365	Sept. 6	81	25	40	1049
Stove	R. A. Rew	374,556	Dec. 6	562	147	41	1155
Stove	C. Rohlf	360,784	Apr. 5	547	142	39	103
Stove	G. E. Sharp	356,381	Jan. 18	1549	407	38	312
Stove	G. Van Wagenen	372,831	Nov. 8	834	222	41	633
Stove. Air-heating	M. C. Green	374,896	Dec. 13	1043	273	41	1259
Stove and furnace grate	P. C. Dolliver	367,376	Aug. 2	28	7	40	456
Stove and heating apparatus. Vapor	X. Hanna	364,510	June 7	428	115	39	1169
Stove and range doors. Latch-lifter for	C. Brokate	367,360	Aug. 2	11	3	40	453
Stove attachment	J. A. Porter	355,885	Jan. 11	837	219	38	170
Stove attachment. Gas-	J. F. Pond	356,889	Feb. 1	209	58, 59	38	460
Stove attachment. Gasoline-	S. Lightburne, Jr.	372,544	Nov. 1	384	104	41	543
Stove attachment. Vapor-	Z. Davis	360,665	Apr. 5	387	98	39	73
Stove-back	W. C. Metzner	369,356	Sept. 6	70	20	40	1047
Stove. Balanced cooking-	V. S. Bekofsky	355,498	Jan. 4	264	70	38	53
Stove. Base-burning	W. J. Keep	368,951	Aug. 30	2327	619	40	929
Stove. Bathing-	G. Boegler	360,199	Mar. 29	2698	682	38	1436
Stove-board	A. I. Griggs	359,353	Mar. 15	1330	345	38	1162
Stove-board	J. R. Gullen	361,409	Apr. 19	1463	378	39	288
Stove. Combined heating and cooking	J. A. Clothier	367,133	July 26	1892	512	40	381
Stove. Combined laundry and cook	J. T. Dugdale	370,249	Sept. 20	1347	360	40	1303
Stove. Cooking-	E. W. Anthony	369,677	Sept. 13	509	141	40	1141
Stove. Cooking-	L. Kahn	371,892	Oct. 18	1660	429	41	344
Stove. Cooking-	J. A. Price	365,349	June 21	1665	435	39	1415
Stove. Cooking-	O. D. Spalding	357,158	Feb. 1	616	158	38	534
Stove cover and lifter	F. M. Collins	368,072	Aug. 9	1069	285	40	662
Stove-door	B. A. Baxter	370,849	Oct. 4	146	39	41	29
Stove-door	J. W. Fowler	366,088	July 5	459	124 125	40	86
Stove-door	J. G. Smith	362,325	May 3	353	97	39	542
Stove-door latch	H. P. Cope	365,730	June 28	2245	584	39	1537
Stove-doors. Device for opening	C. H. Wood and E. M. Brown	357,298	Feb. 8	810	210	38	580
Stove-doors. Pattern for	S. H. Brown	368,568	Aug. 23	1781	474	40	816
Stove-drum	C. A. Kupfer	365,391	June 28	1741	451	39	1441

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Stove for heating cars, &c.	G. Van Wagenen	372,828	Nov. 8	828	221	41	632
Stove for heating cars, boats, &c.	G. Van Wagenen	372,832	Nov. 8	835	222	41	634
Stove. Gas.	J. B. Foley	368,938	Aug. 30	2312	614	40	926
Stove. Gas.	G. H. Gregory	355,393	Jan. 4	133	36	38	28
Stove. Gas.	J. F. Pond	358,478	Mar. 1	82	21	38	919
Stove. Gas.	W. Swindell	366,701	July 19	1311	352	40	266
Stove. Gas.	P. G. Van Wie	366,704	July 19	1315	353	40	266
Stove. Gas.	W. A. Whalen	375,686	Dec. 27	2165	563	41	1488
Stove. Gas or oil heating.	N. A. McCary	364,124	May 31	2923	758	39	1055
Stove. Gasoline.	J. B. Wallace	359,112	Mar. 8	1005	259	38	1096
Stove-grate	A. L. Goodenow	369,334	Sept. 6	32	9	40	1041
Stove-grate	H. Hatchman	360,690	Apr. 5	415	107	39	78
Stove-grate	J. C. Kohler	374,413	Dec. 6	343	89	41	1111
Stove-grate	S. S. Webber	368,986	Aug. 30	2376	632	40	939
Stove-grate. Adjustable	H. W. Bodeman	362,919	May 10	1210	323	39	705
Stove-grate. Combined wood and coal.	G. A. Way	355,849	Jan. 11	776	204	38	158
Stove. Heating.	E. W. Anthony	371,658	Oct. 18	1299	337	41	272
Stove. Heating.	E. B. Colby	374,939	Dec. 20	1128	295	41	1283
Stove. Heating.	J. W. Fowler	371,134	Oct. 4	571	145 146	41	113
Stove. Heating.	E. C. Frost	367,510	Aug. 2	231	67	40	496
Stove. Heating.	R. S. Higgins	372,620	Nov. 1	494	134	41	563
Stove. Heating.	D. J. Rogers	368,116	Aug. 9	1123	298	40	672
Stove. Heating.	W. L. Swan	362,045	Apr. 26	2380	621	39	464
Stove. Heating.	H. Tilden	359,696	Mar. 22	1876	476	38	1280
Stove. Heating.	H. Tilden	359,697	Mar. 22	1877	477	38	1281
Stove. Heating.	H. Tilden	359,698	Mar. 22	1880	477	38	1281
Stove. Heating and ventilating.	J. T. Jensen	360,885	Apr. 12	698	183	39	137
Stove-heating apparatus	H. Schreiner	369,411	Sept. 6	138	40	40	1058
Stove-hole cover	H. C. Baker	369,040	Aug. 30	2450	650	40	953
Stove-hood	T. H. Lindley	356,722	Jan. 25	2029	533	38	409
Stove. Hot-air	R. S. Chalmers	372,359	Nov. 1	110	33	41	492
Stove. Hot-blast	H. Schulze-Berge	360,973	Apr. 12	830	213	39	159
Stove. Hot-blast	V. O. Strobel	358,500	Mar. 1	116	28	38	925
Stove. Hydrocarbon cooking.	J. S. Hull	358,931	Mar. 8	768	191	38	1050
Stove. Lamp.	H. Clayton	372,518	Nov. 1	338	93	41	534
Stove. Lamp.	O. A. Stempel	371,152	Oct. 4	595	152 153	41	117
Stove. Lamp.	C. A. Tatum	358,505	Mar. 1	121	29	38	926
Stove. Lamp.	Z. Waters and J. B. Stoutemyer	358,235	Feb. 22	2161	570	38	846
Stove. Lamp.	C. S. West	367,256	July 26	2074	560 561	40	416
Stove. Lamp.	O. P. Whipple	360,497	Apr. 5	147	36	39	28
Stove-leg	J. E. Courtright	356,708	Jan. 25	2010	527	38	406
Stove-lid	G. Hunt	357,126	Feb. 1	572	147	38	526
Stove-lid	W. C. Metzner	358,938	Mar. 8	775	194	38	1052
Stove-lid pattern	E. Evans	374,147	Nov. 29	2789	749	41	1031
Stove. Magazine.	A. M. Belden	372,109	Oct. 25	1986	510	41	412
Stove. Oil.	G. W. Swett	355,732	Jan. 11	606	158	38	129
Stove. Oil.	A. F. Zimmerling	363,420	Sept. 6	154	44	40	1061
Stove. Oil.	A. F. Zimmerling	369,422	Sept. 6	155	45	40	1061
Stove. Oil or gas	J. H. Irwin	368,950	Aug. 30	2326	618	40	929
Stove. Open fire	E. Brown	362,717	May 10	924	252	39	653
Stove. Open-grate	C. A. Wellington	367,876	Aug. 9	785	212	40	609
Stove or furnace	H. E. Taber	360,063	Mar. 29	2480	630	38	1397
Stove or furnace. Heating	E. W. Anthony	367,777	Aug. 9	646	173 174	40	581
Stove or furnace. Heating	L. P. Converse	358,432	Mar. 1	12	4	38	905
Stove or range	R. M. Hermance	375,630	Dec. 27	2083	542 543	41	1473
Stove or range	J. A. Price	372,042	Oct. 25	1885	486	41	394
Stove or range. Cook.	F. Jackson	361,064	Apr. 12	962	243 244	39	183
Stove oven. Vapor.	J. Ringen	360,727	Apr. 5	473	120	39	88
Stove oven. Vapor.	J. Ringen	360,728	Apr. 5	474	120	39	88
Stove. Parlor.	E. Bussey	373,127	Nov. 15	1275	398 399	41	724
Stove. Parlor.	M. Farrell and T. H. Casey	355,688	Jan. 11	539	141 142	38	115
Stove-pipe	B. F. Caldwell	361,861	Apr. 26	2118	549	39	418
Stove-pipe	C. Lehman	372,075	Oct. 25	1938	500	41	403
Stove-pipe	W. S. Shipe	366,515	July 12	1037	281	40	206
Stove-pipe	C. A. Smith	369,211	Aug. 30	2073	711	40	998
Stove-pipe attachment for flues	A. M. Mealey	365,145	June 21	1376	364	39	1360
Stove-pipe cleaner	B. W. Huey	364,255	June 7	74	21	39	1103
Stove-pipe collar	G. Koeb	374,974	Dec. 20	1183	308	41	1293
Stove-pipe collar	E. Mather	360,605	Apr. 5	308	76	39	59
Stove-pipe-crimping machine	W. J. and T. W. Wood	357,883	Feb. 15	1662	432	38	749
Stove pipe drum	C. W. Yoder and S. L. Hamilton	360,549	Apr. 5	233	58	39	45
Stove-pipe elbows. Machine for flattening the crimps of	T. S. Evans and E. H. Bissett	358,390	Feb. 22	2372	630 631	38	887
Stove-pipe fastener.	W. P. Waller	372,395	Nov. 1	166	47	41	501
Stove-pipe fastening	F. R. Dimick	363,122	May 17	1500	397	39	768
Stove-pipe joint	C. H. Sweet	373,950	Nov. 29	2507	673	41	976
Stove-pipe joint and thimble-lock	E. G. Cameron	356,706	Jan. 25	2009	527	38	406
Stove-pipe joint and ventilator	A. W. Fox	371,052	Oct. 4	462	116	41	91
Stove-pipe shelf	E. H. Daniels	363,809	May 31	2478	643	39	971
Stove-pipe shelf	J. H. French	360,427	Apr. 5	41	11	39	9
Stove-pipe shelf	N. Linsley	359,574	Mar. 15	1682	430	38	1228
Stove-pipe shelf and draft-regulator. Combined	J. Allingham	363,572	May 24	2132	552	39	899
Stove-pipe shelf. Swinging	E. F. Knowlton	371,201	Oct. 11	666	170	41	139
Stove-pipe thimble	H. E. Anderson	367,885	Aug. 9	798	216	40	612
Stove-pipe thimble	S. C. Hutchins and E. F. Macomber	364,651	June 14	621	167	39	1213
Stove-pipe thimble	H. J. Merz	369,200	Aug. 30	2662	708	40	996
Stove-pipe thimble	C. H. Tryon	374,643	Dec. 13	683	180	41	1189

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Stove-pipes. Joint-lock for.....	O. B. Blakeslee.....	368,703	Aug. 23	1972	523	40	852
Stove-pipes. Packing and nesting.....	B. F. Caldwell.....	361,926	Apr. 26	2203	572	39	434
Stove-plate fastening.....	B. D. Ferris.....	374,666	Dec. 13	713	187	41	1195
Stove-polish.....	B. H. Kroner.....	367,110	July 26	1860		40	376
Stove. Regenerative hot-blast.....	B. Ford and J. Moncur.....	364,998	June 14	1117	{ 300 301 }	39	1309
Stove-shelf.....	W. J. Keep.....	374,364	Dec. 6	280	75	41	1099
Stove-shelf.....	J. A. Price.....	374,627	Dec. 13	658	172	41	1183
Stove-shelf and heater. Combined.....	W. Stansell.....	371,285	Oct. 11	781	200	41	161
Stove-spittoon.....	W. D. Smith.....	361,902	Apr. 26	2174	{ 563 564 }	39	428
Stove. Straw-burning.....	A. E. Smith.....	368,788	Aug. 23	2092	554	40	874
Stove. Straw-burning cook.....	W. W. Swan.....	375,395	Dec. 27	1750	459	41	1411
Stove. Vapor.....	Z. Davis.....	362,725	May 10	935	255	39	655
Stove. Vapor.....	M. L. Hull. (Reissue).....	10,849	July 12	1226	327	40	242
Stove. Vapor.....	A. D. Loveren.....	360,601	Apr. 5	304	74	39	58
Stove. Vapor.....	F. A. Lyman.....	361,170	Apr. 12	1132	286	39	215
Stove. Vapor.....	J. A. Marsh.....	358,284	Feb. 22	2232	{ 588 589 }	38	860
Stove. Vapor.....	W. C. North.....	368,303	Aug. 16	1408	372	40	735
Stove. Vapor.....	B. Rein.....	362,660	May 10	846	{ 231 232 }	39	637
Stove. Vapor.....	H. Ruppel and D. E. Dangler.....	372,706	Nov. 8	622	169	41	598
Stove. Vapor.....	J. B. Wallace.....	370,431	Sept. 27	1616	431	40	1361
Stove. Vapor.....	E. J. Williams.....	372,586	Nov. 1	446	120	41	554
Stove. Vapor.....	H. M. Young.....	373,573	Nov. 22	1972	524	41	863
Stove. Ventilating.....	W. J. Keep.....	375,359	Dec. 27	1703	448	41	1401
Stoves. Adjustable fire-back for.....	W. H. H. Spaulding.....	372,577	Nov. 1	435	116	41	552
Stoves. Adjustable hood for cooking.....	G. Carlson.....	369,161	Aug. 30	2612	693	40	985
Stoves and furnaces. Burning coal, &c., in.....	J. T. Robbins.....	366,255	July 12	698	189	40	139
Stoves and other purposes. Air-pressure apparatus for vapor.....	M. E. Dayton.....	363,610	May 24	2183	566	39	909
Stoves and ranges. Oven for cooking.....	D. G. Littlefield. (Reissue).....	10,837	May 24	2440	633	39	958
Stoves and ranges. Water-heating device for.....	R. J. Stirrat.....	357,874	Feb. 15	1649	429	38	747
Stoves. Apparatus for dumping the grates of railway-way.....	G. W. Glass.....	373,732	Nov. 22	2194	586	41	909
Stoves. Ash-chute for.....	H. W. Holcomb.....	370,142	Sept. 20	1206	319	40	1276
Stoves. Attachment for cooking.....	E. Nifenecker.....	356,260	Jan. 18	1373	363	38	279
Stoves. Burner for petroleum cooking.....	V. Bürklin.....	355,811	Jan. 11	714	187	38	148
Stoves. Burner for vapor.....	W. Vogel.....	372,724	Nov. 8	650	179	41	603
Stoves. Feeder for.....	M. S. Briggs.....	364,795	June 14	856	224	39	1255
Stoves. Foot-rest for.....	G. H. Woodworth.....	359,046	Mar. 8	919	234	38	1078
Stoves. Foot-warmer for.....	S. A. Harryman.....	361,412	Apr. 19	1465	378	39	288
Stoves, furnaces, &c. Fire-box lining for.....	C. T. Barnes.....	371,165	Oct. 11	617	158	41	130
Stoves. Grate for heating.....	W. E. Walker and G. E. Wilbur.....	370,362	Sept. 20	1509	404	40	1334
Stoves. Hot-water attachment for.....	G. T. Brewer.....	360,411	Apr. 5	12	4	39	5
Stoves. Hot-water pipe or fitting for cooking.....	J. O'Keefe and C. H. Filley.....	358,123	Feb. 22	2007	528	38	816
Stoves. Lid for oil, gas, and vapor.....	W. H. Wiester.....	366,988	July 19	1688	454	40	335
Stoves. Oil-heater for.....	W. W. Batchelder.....	358,185	Feb. 22	2102	555	38	835
Stoves or fire-boxes. Gas-connection for hot-blast.....	H. Kennedy.....	369,341	Sept. 6	48	14	40	1043
Stoves or furnaces. Smoke and gas consuming attachment for.....	E. R. Howard.....	356,837	Feb. 1	129	35	38	447
Stoves or ranges. Heat-diffuser for.....	J. H. Wilkinson.....	367,878	Aug. 9	788	213	40	609
Stoves. Oven for oil or vapor.....	J. E. Welling.....	358,762	Mar. 1	499	122	38	996
Stoves. Oven for vapor.....	G. M. Voltz.....	374,219	Dec. 6	68	18	41	1060
Stoves. Reminder for reservoirs of vapor.....	S. Lightburne, Jr.....	367,306	July 26	2150	578	40	429
Stoves. Safety attachment for car.....	G. A. Ogle.....	371,350	Oct. 11	872	224	41	178
Stoves. Safety attachment for railway-car.....	J. Tilton.....	375,229	Dec. 20	1532	402	41	1361
Stoves. Sliding shelf for cook.....	M. Kuehnle.....	358,361	Feb. 22	2332	{ 618 619 }	38	879
Stoves. Stack-connection for hot-blast.....	H. Kennedy.....	369,342	Sept. 6	49	14	40	1044
Stoves. Straw-burning attachment for.....	F. Girtanner.....	361,006	Apr. 12	887	224	39	168
Stoves. Toaster or broiler for gasoline.....	A. G. Conway.....	362,939	May 17	1242	330	39	718
Stoves. Ventilating attachment for.....	C. Rathbone.....	367,445	Aug. 2	119	34	40	474
Strainer.....	J. H. Adwen.....	365,560	June 28	1993	519	39	1491
Strainer.....	C. A. Bryant.....	369,687	Sept. 13	520	144	40	1143
Strainer. Fluid.....	E. J. Pope.....	358,749	Mar. 1	483	117	38	993
Strainer for culinary vessels.....	J. M. Lewis.....	362,097	May 3	62	18	39	485
Strainer. Milk.....	R. L. Anderson.....	367,776	Aug. 9	645	173	40	581
Strainer. Milk.....	P. S. Ryan.....	356,555	Jan. 25	1806	473	38	367
Strainer-support and strainer.....	E. C. Bruen.....	369,980	Sept. 13	956	252	40	1222
Strainer. Tea.....	D. Sherwood and G. D. Dudley.....	365,411	June 28	1763	457	39	1446
Straining apparatus.....	A. Koplín and W. Crowe.....	373,778	Nov. 22	2261	606	41	921
Strap:							
See Boot-strap. Hitching-strap.							
Boot or shoe strap. Shawl-strap.							
Box-strap. Spring-strap.							
Car-strap. Trunk-strap.							
Harness-strap.							
Strap for securing packages.....	H. S. Brewington.....	366,555	July 12	1089	294	40	216
Strap-loop.....	C. Reinisch.....	361,718	Apr. 26	1904	494	39	379
Strap-loop and bag-fastening.....	C. Reinisch.....	367,237	July 26	2046	551	40	411
Strap-loop and bag-fastening.....	C. Reinisch. (Reissue).....	10,887	Dec. 6	583	152	41	1159
Straps. Device for attaching.....	J. B. Gathright.....	366,214	July 12	637	173	40	128
Straps or other articles. Connecting device for.....	E. Pringle.....	360,913	Apr. 12	735	193	39	143
Straw, &c. Apparatus for baling and binding.....	N. B. Wood.....	367,489	Aug. 2	190	{ 53 54 55 }	40	487
Strawboard-lining machine.....	E. Spooner.....	361,094	Apr. 12	1008	{ 254 255 }	39	193
Straw-bucker.....	I. B. Parsons.....	360,615	Apr. 5	325	80	39	61
Straw-burning furnace.....	M. Lafever.....	360,227	Mar. 29	2739	693	38	1443
Straw-carrier.....	C. Ketch.....	358,042	Feb. 22	1879	497	38	795
Straw carrier and stacker. Combined.....	W. C. Buchanan.....	367,182	July 26	1955	{ 527 528 }	40	393

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Straw-compressor. Self-binding	N. B. Wood	367,490	Aug. 2	196	55, 56	40	489
Straw-cutter	J. Dick	356,751	Feb. 1	15	5	38	426
Straw-cutter	E. I. Gilliland and J. H. Hunter	368,941	Aug. 30	2315	616	40	927
Straw-cutter	C. Hansen and J. Brandt	370,698	Sept. 27	2023	539	40	1436
Straw-cutter	D. Lawton	372,157	Oct. 25	2057	526	41	425
Straw-cutting machine	M. C. Beaupre	373,431	Nov. 22	1748	463	41	822
Straw-elevator	I. W. Adams	374,723	Dec. 13	791	208	41	1210
Straw or hay stacker	C. W. Ebert	356,992	Feb. 1	347	92	38	487
Straw-stacker	M. Heinecke	363,234	May 17	1645	{ 432 433 }	39	797
Straw-stacker	A. B. Reeves	368,971	Aug. 30	2356	625	40	935
Straw-stacker	W. U. Richmond	370,494	Sept. 27	1720	456	40	1380
Straw-stacker	J. L. Whitfield	368,037	Aug. 9	1015	{ 273 274 }	40	653
Street-receiver and stench-trap	T. J. O'Brien	357,733	Feb. 15	1453	380	38	709
Street-sweeper	H. Whiley	357,440	Feb. 8	997	263	38	615
Street-sweeper	T. Wright	371,722	Oct. 18	1404	{ 363 364 }	41	294
Street-sweeping machine	J. T. Collins	356,029	Jan. 11	1045	274	38	211
Street-sweeping machine	C. Drill	365,374	June 28	1715	{ 444 445 }	39	1436
Street-sweeping vehicle	T. Wright	371,909	Oct. 18	1680	434	41	348
Street-washer	W. Strong	364,737	June 14	741	197	39	1236
Strength-testing machine. Coin-operated	R. W. Page	373,942	Nov. 29	2493	{ 669 670 }	41	973
Stretcher-frame	H. F. Gray	371,933	Oct. 25	1719	444	41	365
Stretcher-frame	H. F. Gray	371,934	Oct. 25	1720	445	41	365
Stretcher-frame	A. D. Shattuck	367,672	Aug. 2	477	132	40	541
Stretching and crimping machine	A. R. James	373,775	Nov. 22	2257	605	41	920
String-clamp	R. A. G. Lorenz	375,710	Dec. 27	2195	571	41	1494
String-holder	W. L. Rice	371,977	Oct. 25	1779	461	41	377
String-instrument	T. Brett	363,720	May 24	2350	610	39	941
Stringed-instrument holder	R. T. Fiorini	361,817	Apr. 26	2044	532	39	404
Stringed instruments. Bridge for	M. W. White	361,659	Apr. 19	1815	470	39	355
Stringed instruments. Key for	H. W. White	360,186	Mar. 29	2683	678	38	1433
Stroke-jointer	E. Jenner and G. Eiserer	373,293	Nov. 15	1531	{ 404 405 }	41	770
Structural articles. Composition for the manufacture of	T. McSweeney	372,552	Nov. 1	396	.....	41	546
Structure. Extensible	W. W. Atkinson	357,444	Feb. 8	1004	265	38	617
Stubble-cutter	H. P. Mathis	366,417	July 12	900	243	40	178
Stubble digger and cultivator	J. Mallon	367,989	Aug. 9	952	257	40	641
Stud and necktie-holder. Collar	D. Stone	365,207	June 21	1452	383	39	1375
Studs. Machine for inserting lacing	H. A. Kingsland	366,115	July 5	493	{ 133 134 135 }	40	93
Studs or hooks. Machine for setting lacing	W. C. Bray	356,302	Jan. 18	1439	378	38	291
Stuffing-box	J. E. Denton	362,367	May 3	409	113	39	554
Stuffing-box	E. G. Medrick	369,869	Sept. 13	782	208	40	1191
Stuffing-box	C. P. Wetherill	358,714	Mar. 1	441	107	38	986
Stump-extractor	J. Cornelius	364,092	May 31	2574	745	39	1047
Stump-extractor	R. B. Montgomery	356,693	Jan. 25	1991	523	38	403
Stump-extractor	E. J. Moore	367,428	Aug. 2	98	26	40	469
Stump-extractor	J. Nolf	365,699	June 28	2195	573	39	1528
Stump-puller	W. J., W., and G. Hartrup	361,943	Apr. 26	2229	580	39	439
Stump-puller	G. R. Ives	361,631	Apr. 19	1776	459	39	349
Stump-puller	C. Krueger	368,216	Aug. 16	1268	338	40	708
Stump-puller	C. Sauer	366,032	July 5	390	{ 105 106 }	40	73
Stump-puller	J. H. Schindly	365,204	June 21	1449	382	39	1375
Stump-puller	R. R. Tichenor and P. Walker	357,347	Feb. 8	868	229	38	592
Submarine signal	J. M. Batchelder	368,272	Aug. 16	1365	359	40	726
Subway	C. Scheidl	361,086	Apr. 12	994	{ 251 252 }	39	190
Subway structure for city streets	F. N. Blanc	358,331	Feb. 22	2290	604	38	872
Sucker-rod adjuster	W. H. Downing	364,226	June 7	38	12	39	1095
Sucker-rod elevator	C. C. Stover	359,291	Mar. 15	1244	323	38	1147
Sugar. Device for loosening and cutting	W. P. Elliott	365,247	June 21	1520	396	39	1386
Sugar in blocks. Apparatus for the manufacture of	T. C. A. Carré	361,396	Apr. 19	1444	373	39	284
Sugar in boxes. Machine for packing cube	F. C. Hersey and H. D. Winton	370,057	Sept. 20	1078	285	40	1252
Sugar. Machine for manufacturing and bleaching	J. A. Lombas	365,616	June 28	2075	541	39	1506
Sugar-making purposes. Evaporator for	S. T. Eskew	362,068	May 3	22	7	39	477
Sugar. Manufacture of	M. Swenson	371,528	Oct. 11	1116	.....	41	227
Sugar. Manufacturing double-crystallized	O. H. Krause	372,030	Oct. 25	1867	.....	41	391
Sugar-mass. Molding boiled	F. Scheibler	364,550	June 7	495	133	39	1181
Sulky. Road	J. R. Hawkey	373,738	Nov. 22	2202	589	41	911
Sulphur. Apparatus for atomizing	H. L. Lightner	359,164	Mar. 8	1066	278	38	1108
Sulphur from furnace-gases. Obtaining	E. Hänisch and M. Schroeder	361,761	Apr. 26	1962	512	39	389
Sulphur-sprinkler	J. Fatjo	360,571	Apr. 5	265	65	39	51
Sulphurous oxide. Apparatus for and process of the manufacture of	H. B. Ford	363,457	May 24	1953	511	39	863
Sun-dial	O. Benson	358,957	Mar. 8	799	202	38	1057
Sunshade-handle	E. Faasen	370,459	Sept. 27	1659	442	40	1369
Superheater and hydrocarbon-burner. Combined	C. T. Schoen	363,086	May 17	1447	383	39	758
Supporter:							
See Abdominal sup-	Napkin-supporter.						
porter.	Obstetrical supporter.						
Drawers-supporter.	Shaft-supporter.						
Garment-supporter.	Skirt-supporter.						
Heel and shank sup-	Suspenders and stocking-						
porter.	supporter.						
Hose-supporter.	Wall-supporter.						
Supports. Adjustable foot for central	H. A. Smith	357,792	Feb. 15	1543	402	38	726
Surcingle	A. Duby	367,707	Aug. 2	526	144	40	550

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Surcingle-fastening	D. C. Frost	373,521	Nov. 22	1903	505	41	852
Surface and marking gage. Combined	E. Walker	359,336	Mar. 15	1304	338	38	1158
Surfaces. Producing ornamental	E. and B. Holmes	369,244	Aug. 30	2714	721	40	1006
Surgery. Electro-cautery instrument for use in	D. H. Goodwillie	360,429	Apr. 5	46	12	39	10
Surgical appliance	W. Penny	363,538	May 24	2085	540	39	890
Surgical belt	J. Zervas	368,699	Aug. 23	1969	522	40	852
Surgical blade and handle	L. Schwab	366,432	July 12	918	249	40	182
Surgical chair	F. E. Case	360,279	Mar. 29	2816	716	38	1458
Surgical chair	A. J. Marston	363,404	May 24	1871	492	39	848
Surgical dressing	A. B. Hall	372,142	Oct. 25	2039	.....	41	422
Surgical implements. Handle for	F. Nuessle	361,315	Apr. 19	1336	343	39	265
Surgical instrument	B. H. Camp	358,539	Mar. 1	189	44	38	937
Surgical-instrument holder	J. R. Hamilton	373,362	Nov. 15	1647	436	41	791
Surgical knife	J. Kozmann	370,706	Sept. 27	2035	541	40	1439
Surgical splint	J. E. Lee	364,942	June 14	1068	278	39	1294
Surgical splint	J. E. Lee	365,612	June 28	2071	540	39	1505
Surgical table	R. C. Longfellow	363,751	May 24	2390	{ 620 621 }	{ 39 39 }	948
Surgical uses. Water-reservoir for	J. R. Hamilton	373,400	Nov. 15	1701	451	41	801
Surgical water-bandage	H. W. and J. Sitwell	367,855	Aug. 9	757	203	40	603
Suspender attachment	W. O. Raymond and W. H. Derrick	360,049	Mar. 29	2455	625	38	1392
Suspender-clasp	J. F. Molloy	364,365	June 7	215	60	39	1129
Suspender-clasp	W. Zoller	373,793	Nov. 22	2282	611	41	924
Suspender-connection	F. B. Brown	356,444	Jan. 25	1646	432	38	337
Suspender-end	E. Lamb	362,290	May 3	307	85	39	533
Suspender-end	F. B. Spooner	372,820	Nov. 8	818	219	41	631
Suspender-end	C. Voorhis	362,684	May 10	880	240	39	644
Suspender-end	C. Voorhis	366,536	July 12	1062	289	40	211
Suspender-hook	J. C. Hotchkiss	366,317	July 12	776	210	40	155
Suspender-loop clamp	G. F. Atwood	370,033	Sept. 20	1049	278	40	1248
Suspenders	V. R. Allen	362,867	May 10	1131	304	39	690
Suspenders	H. Beaudry	359,836	Mar. 22	2094	529	38	1319
Suspenders	A. Bernstein	372,196	Oct. 25	2117	544	41	437
Suspenders	D. O. Fosgate	364,168	May 31	2988	776	39	1068
Suspenders	C. C. Gilmore	366,475	July 12	971	264	40	193
Suspenders	M. Hamburger	360,772	Apr. 5	532	137	39	100
Suspenders	R. Lewis	370,630	Sept. 27	1923	510	40	1418
Suspenders	A. E. Overlock	364,367	June 7	219	61	39	1130
Suspenders	J. R. Pollock	375,380	Dec. 27	1734	455	41	1408
Suspenders	C. A. Shattuck	375,010	Dec. 20	1227	320	41	1301
Suspenders	S. Truax	372,051	Oct. 25	1898	{ 489 490 }	{ 41 41 }	396
Suspenders	W. C. Wilson	358,912	Mar. 8	742	184	38	1045
Suspenders and stocking-supporter. Combined	S. E. Stevens	375,216	Dec. 20	1517	398	41	1358
Suspenders. Attaching device for	T. B. Moses, Jr.	366,787	July 19	1429	382	40	286
Suspenders or braces	J. F. Miles	363,532	May 24	2076	538	39	885
Suspenders. Slide-loop for	C. Williams	375,240	Dec. 20	1544	405	41	1363
Suspending device	W. A. Patten	374,809	Dec. 13	916	239	41	1234
Suspension device	J. A. Evarts	365,335	June 21	1642	428	39	1410
Suspension device	C. A. Evarts and E. Fisher	369,509	Sept. 6	265	74	40	1084
Suspension device	F. Metzger	362,304	May 3	323	89	39	536
Suspension device	G. W. Woodward	357,695	Feb. 15	1392	{ 366 367 }	{ 38 38 }	699
Suspension-hook	W. Flint	359,718	Mar. 22	1910	484	38	1286
Suspension-hook	G. W. McGill	359,324	Mar. 15	1290	335	38	1156
Suspension or cable road switch	C. Carr	374,864	Dec. 13	993	{ 259 260 }	{ 41 41 }	1248
Suspension or cable roads. Track for	C. Carr	374,865	Dec. 13	995	260	41	1249
Sweat-pad fastener	J. W. Albright	362,348	May 3	384	106	39	549
Sweat-pad fastener	J. C. Mendenhall	367,423	Aug. 2	93	25	40	469
Sweat-pad fastener	W. Williams	372,587	Nov. 1	447	120	41	555
Sweat-pad hook	F. S. Derr	364,808	June 14	874	230	39	1258
Swimming-paddle	J. Shaaber	373,692	Nov. 22	2143	573	41	899
Swing	T. J. Bell	363,503	May 24	2032	529	39	880
Swing	J. Carmody	372,117	Oct. 25	2001	513	41	415
Swing	G. A. Dumbeck	372,256	Oct. 25	2206	565	41	454
Swing	H. H. Fowler	364,713	June 14	716	190	39	1231
Swing	H. H. Fowler	367,204	July 26	1984	536	40	400
Swing	J. O. Lyon	364,182	May 31	3008	781	39	1071
Swing	J. Rigby	362,785	May 10	1032	281	39	672
Swing	I. S. Vanetten	367,477	Aug. 2	165	47	40	483
Swing. Adjustable	C. B. T. Hendrickson	371,065	Oct. 4	476	{ 119 120 }	{ 41 41 }	94
Swing. Portable	F. H. Cutler	367,788	Aug. 9	668	{ 180 181 }	{ 40 40 }	585
Swinging and folding gate	G. W. Perry	373,752	Nov. 22	2219	594	41	914
Swinging chair	C. Shepardson	358,701	Mar. 1	419	101	38	981
Swinging gate	H. Hubler	358,396	Feb. 22	2380	633	38	888
Swinging gate	G. P. Price	359,740	Mar. 22	1940	492	38	1291
Swinging gate	S. C. Rockwood	359,633	Mar. 22	1787	455	38	1263
Swinging gate	W. A. Smith	363,180	May 17	1577	415	39	784
Swinging gate	G. W. Tillson	355,847	Jan. 11	772	203	38	157
Swinging gate. Adjustable	W. B. Thomas	374,856	Dec. 13	976	255	41	1246
Switch:							
See Automatic switch. Spring-jack switch.							
Blind switch. Store-service switch.							
Cross-over switch. Suspension or cable road switch.							
Electric switch. Telephone-switch.							
Electrical switch. Three-throw split switch.							
Railway-switch.							
Safety-switch.							
Switch	P. Wall	355,360	Jan. 4	94	25	38	20
Switch and automatic cut-out	M. J. Wightman and H. Lemp	367,082	July 26	1820	490	40	369
Switch and signal	J. W. Henderson	370,620	Sept. 27	1908	507	40	1415

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Switch and signal apparatus	A. G. Cummings	370,453	Sept. 27	1650	{ 440 441 412 413 }	{ 40 39 }	1367 313
Switch and signal interlocking apparatus	J. T. Hambay	361,510	Apr. 19	1591	{ 412 413 }	{ 39 38 }	313 313
Switch and signal lock	I. May	374,312	Dec. 6	206	54	41	1084
Switch and signal mechanism	F. H. Treacy	369,823	Sept. 13	700	189	40	1176
Switch and signal stand	W. J. Morden	366,973	July 19	1668	448	40	332
Switch-bar attachment	F. C. Weir	374,100	Nov. 29	2724	731	41	1020
Switch-board systems. Test-circuit for multiple	C. E. Scribner	356,425	Jan. 18	1615	424	38	323
Switch-board test-circuit. Multiple	C. E. Scribner	356,426	Jan. 18	1617	424	38	323
Switch-board test-circuit. Multiple	C. E. Scribner	374,907	Dec. 13	1056	277	41	1262
Switch-chair	W. J. Mordin	368,300	Aug. 16	1405	371	40	734
Switch mechanism	F. H. Treacy	369,820	Sept. 13	696	188	40	1175
Switch-register. Electric	C. Fearon	359,067	Mar. 8	944	241	38	1084
Switch signal-light	L. M. Curry	359,062	Mar. 8	939	239	38	1083
Switch-stand	M. V. Fitzgerald	357,588	Feb. 15	1235	325	38	671
Switch-stand	W. A. Redding	374,269	Dec. 6	134	36	41	1073
Switch-stand	E. J. Remillon	368,169	Aug. 9	1198	320	40	686
Switch-stand	F. W. Snow	367,862	Aug. 9	766	206	40	605
Switch-stand	F. W. Snow	372,716	Nov. 8	637	173	41	601
Switch-stand	A. A. Strom	363,772	May 24	2419	{ 627 628 }	{ 39 38 }	954 954
Switch-stand	F. C. Weir	374,437	Dec. 6	377	99	41	1118
Switch-stand and semaphore. Combined	G. W. Nolen	368,604	Aug. 23	1824	485	0	825
Switch-stand attachment	J. Roberts	363,001	May 17	1335	353	39	735
Switch-table and car-replacer. Portable	A. Durieu	362,259	May 3	269	75	39	525
Switches and signals. Electrical interlocking mechanism for	G. Westinghouse, Jr	357,109	Feb. 1	516	{ 136 137 138 139 140 }	{ 38 37 36 35 34 }	517 517 517 517 517
Switches and signals. Mechanism for operating	H. and C. R. Johnson	372,539	Nov. 1	376	101	41	542
Switches. Detector-bar or safety-lock for	J. J. Turner	374,915	Dec. 13	1077	281	41	1265
Switches, signals, &c. Interlocking apparatus for	F. S. Guerber	362,889	May 10	1166	312	39	697
Swiveling and clamping joint mechanism. Compound	O. C. White	369,143	Aug. 30	2588	688	40	981
Syringe	J. C. Baker	356,185	Jan. 18	1274	336	38	258
Syringe	J. R. Hamilton	373,398	Nov. 15	1700	450	41	801
Syringe	T. F. Matthews	367,648	Aug. 2	428	119	0	533
Syringe	T. F. Matthews	367,649	Aug. 2	430	120	40	533
Syringe	C. G. Spengler	359,642	Mar. 22	1800	458	38	1266
Syringe	T. Threlfall	368,627	Aug. 23	1860	497	40	831
Syringe	E. A. Williams	374,026	Nov. 29	2611	700	41	997
Syringe. Fountain	R. Parker	356,544	Jan. 25	1782	464	38	362
Syringe. Hypodermic	A. Dunbar	361,750	Apr. 26	1948	507	39	386
Syringe-reservoir	J. F. Ward	373,322	Nov. 15	1575	417	41	779
Syringe. Speculum	J. P. Schenck	365,542	June 28	1963	511	39	1486
Syringes. Valve for	B. F. Sutton	362,678	May 10	869	237	39	642
Table:							
See Adjustable table. Machine-table.							
Billiard-table. Metallic table.							
Dining-table. Nursery and sewing table.							
Drafting-table. Operating-table.							
Drawing-table. Paper-hanger's folding table.							
Embalming-table. Picking-table.							
Extension-table. Retouching-table.							
Folding table. Sewing-machine table.							
Folding and adjustable table. Surgical table.							
Game-table. Switch-table.							
Knockdown table. Transfer-table.							
Ironing-table. Turn-table.							
Locomotive turn-table.							
Table	H. Massmann	360,604	Apr. 5	307	75	39	59
Table	H. C. McDaniel	362,223	May 3	230	67	39	517
Table	J. W. McLain	360,712	Apr. 5	452	115	39	84
Table	M. Merklin	362,172	May 3	163	47	39	505
Table	D. Mitchell	359,457	Mar. 15	1486	380	38	1192
Table	C. F. Steel	367,678	Aug. 2	487	134	40	543
Table	W. M. Sumerel	370,747	Sept. 27	2096	556	40	1450
Table	G. W. Zeigler	362,915	May 10	1204	322	39	704
Table	G. W. Zeigler	362,916	May 10	1205	322	39	704
Table and bed combined	I. M. Levy	362,164	May 3	155	45	39	503
Table and cot. Combined	F. M. Tribbey	362,470	May 3	564	156	39	583
Table-knife	A. W. Cox	356,452	Jan. 25	1658	434	38	339
Table-knife	A. W. Cox	356,453	Jan. 25	1659	434	38	339
Table-leaf support	F. L. Casper	373,813	Nov. 29	2317	620	41	940
Table-leaf support	O. Colvin	359,432	Mar. 15	1456	372	38	1186
Table-leaf support	H. A. Kaufhold and J. Genter	359,322	Mar. 15	1282	333	38	1154
Table-leaf support	G. L. Slater	357,506	Feb. 8	1094	289	38	634
Table-leaf support	H. H. Wilson	360,788	Apr. 5	551	143	39	104
Table-leg	A. E. Thayer	367,683	Aug. 2	492	135	40	543
Table-sink	T. M. Dils	356,401	Jan. 18	1579	415	38	317
Table-slide	L. S. Edleblute	363,219	May 17	1631	428	39	794
Table slide. Extension	H. O. Hall	359,782	Mar. 22	2018	511	38	1304
Table-top. Sheet-metal	W. C. Homan	358,269	Feb. 22	2207	581	38	854
Table-ware. Article of	G. Leonard	364,025	May 31	2788	722	39	1030
Tablet	J. H. Brandt	361,122	Apr. 12	1048	265	39	200
Tablet. Interchangeable account	J. G. Mark	365,084	June 21	1281	339	39	1343
Tablet. Ornamental	E. C. Meeker	369,407	Sept. 6	135	39	40	1058
Tablet, paper-weight, and blotter. Combined	J. M. Williams	360,750	Apr. 5	502	129	39	94
Tablet. Postal	C. Howland	367,163	July 26	1933	522	40	389
Tablet-press	M. F. Doud	367,897	Aug. 9	818	220	40	615
Tablet. Writing	C. Robinson	368,972	Aug. 30	2357	626	40	935
Tablets. Binder for	F. E. Busch	375,046	Dec. 20	1277	333	41	1309

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Tack-capping machine.....	W. and L. W. Gates.....	373,284	Nov. 15	1517	{ 401 402 }	{ 41 }	768
Tack-driver.....	F. Chase.....	356,620	Jan. 25	1901	499	38	385
Tack-driving machine.....	M. R. and F. N. Ethridge.....	360,147	Mar. 29	2622	664	38	1421
Tack-driving machine.....	E. Woodward.....	365,497	June 28	1886	491	39	1469
Tack-machine.....	L. J. Hirt.....	355,610	Jan. 4	408	{ 111 112 113 }	{ 38 }	81
Tack-making machine.....	F. Chase.....	356,619	Jan. 25	1898	498	38	385
Tack-strips or nail-strips. Machine for making.....	G. W. Copeland and J. E. Crisp.....	365,731	June 28	2247	{ 585 586 587 }	{ 39 }	1537
Tacks or nails from particles of tin or zinc. Machine for separating iron.....	A. E. Convers.....	358,961	Mar. 8	805	203	38	1057
Tacking-machine. Hand.....	P. A. Coupal and C. E. Holland.....	358,770	Mar. 1	509	125	38	998
Tackle-block. Metal.....	G. A. Ford.....	368,144	Aug. 9	1164	{ 310 311 }	{ 40 }	680
Tag and tag-fastener.....	J. S. Rathbone.....	361,451	Apr. 19	1518	393	39	299
Tag for carpets.....	W. W. Fry.....	373,822	Nov. 29	2331	624	41	942
Tag for money-bags, &c.....	A. A. Sprague.....	374,812	Dec. 13	919	240	41	1235
Tag-holder.....	M. F. Richards.....	371,629	Oct. 18	1259	327	41	264
Tag holder or fastener.....	E. H. Graham.....	360,680	Apr. 5	404	103	39	76
Tag. Jeweler's.....	E. S. Burbank.....	374,823	Dec. 13	936	244	41	1239
Tag. Mail.....	G. Bartley.....	359,049	Mar. 8	922	235	38	1079
Tag. Marking.....	W. T. Clark.....	361,987	Apr. 26	2301	599	39	450
Tag. Marking.....	S. Dancyger.....	369,321	Sept. 6	20	5	40	1039
Tag. Registering.....	M. Raphael.....	366,253	July 12	696	189	40	139
Tag-wiring machine.....	D. and C. A. Squier.....	370,425	Sept. 27	1608	428	40	1360
Tags. Machine for stringing.....	C. H. Dana, Jr.....	356,101	Jan. 18	1163	{ 308 309 }	{ 38 }	239
Tailor's crayon-sharpening machine.....	H. L. Halverson.....	372,315	Nov. 1	47	14	41	480
Tallow rendering. Machine for drying and pressing.....	T. R. Houseman and C. B. M. } Sproles. }	361,789	Apr. 26	2008	{ 522 523 }	{ 39 }	397
Tambourine.....	H. Hoseus.....	356,767	Feb. 1	35	10	38	430
Tank:							
See Flush-tank. Railway-tank.							
Flushing-tank. Railway water-tank.							
Heating-tank. Water-closet tank.							
Measuring-tank. Water-closet flushing-tank.							
Oil-tank.							
Tank for volatile liquids. Storage and measuring.....	S. F. and A. Bowser.....	372,250	Oct. 25	2197	563	41	453
Tanks. Screen-bottom for charcoal washing and filtering.....	A. Gaukroger.....	360,581	Apr. 5	274	67	39	53
Tanner's tool.....	J. McDermott.....	361,176	Apr. 12	1139	288	39	216
Tanner's tool.....	J. McDermott.....	373,748	Nov. 22	2215	593	41	913
Tannin extract from wood. Manufacture of.....	A. Morand.....	357,129	Feb. 1	575	148	38	527
Tanning.....	C. Kaestner.....	367,145	July 26	1912	.....	40	385
Tanning.....	A. Millochau and F. Chailly.....	375,455	Dec. 27	1832	479	41	1427
Tanning and other purposes. Treatment of hides and skins for.....	E. P. Nesbit.....	359,360	Mar. 15	1342	.....	38	1165
Tanning apparatus.....	R. J. Meiser.....	366,785	July 19	1426	381	40	286
Tanning by electricity.....	J. W. Aborn and J. Landin.....	368,745	Aug. 23	2032	.....	40	864
Tanning by electricity. Process of and apparatus for.....	E. Worms and J. Balé.....	361,249	Apr. 12	1243	317	39	236
Tap-hole closer.....	T. A. Taylor.....	374,855	Dec. 13	975	255	41	1245
Tap. Trip.....	P. J. Kelly and J. Groves.....	358,980	Mar. 8	832	210	38	1062
Tape-line case.....	J. M. Harper.....	375,420	Dec. 27	1784	467	41	1417
Tape-measures. Attaching-hook for.....	L. E. Martin.....	370,636	Sept. 27	1930	511	40	1419
Taper-tap.....	J. Gribben.....	374,284	Dec. 20	1599	420	41	1373
Tapered nail.....	J. Hyslop, Jr.....	373,234	Nov. 15	1454	383	41	756
Tapers. Machine for turning.....	M. D. Luehrs.....	371,691	Oct. 18	1353	350	41	282
Tapping mains. Device for.....	H. Mueller.....	361,021	Apr. 12	907	229	39	172
Tapping mains. Machine for.....	O. B. Hall.....	358,445	Mar. 1	32	9	38	909
Tar. Aniline.....	J. Van Ruymbeke.....	372,243	Oct. 25	2186	.....	41	450
Target. Flying.....	W. H. Cruttenden and M. E. Card.....	356,929	Feb. 1	255	71	38	468
Target. Flying.....	F. Erb, Jr.....	356,354	Jan. 18	1515	398	38	305
Target. Flying.....	T. Ferguson and W. W. Cartner.....	367,748	Aug. 2	598	162	40	563
Target. Flying.....	M. A. Harsen.....	374,961	Dec. 20	1160	303	41	1289
Target. Flying.....	C. C. Hebbard.....	362,744	May 10	960	261	39	959
Target. Flying.....	F. J. Meyer and C. A. Hoag.....	364,600	June 7	557	150	39	1193
Target-trap.....	J. B. Bennett and F. W. Samuels.....	360,647	Apr. 5	361	91	39	69
Target-trap.....	F. C. Damm.....	368,911	Aug. 23	2265	602	40	909
Target-trap.....	F. C. Damm.....	374,043	Nov. 29	2636	707	41	1002
Target-trap.....	C. C. Hebbard.....	371,839	Oct. 18	1575	407	41	328
Target trap. Flying.....	C. Swan.....	356,297	Jan. 18	1431	376	38	289
Targets. Machine for making.....	A. H. Hebbard.....	375,628	Dec. 27	2078	{ 540 541 542 }	{ 41 }	1472
Targets. Mold for forming plastic or composition.....	F. J. Moyer and C. A. Hoag.....	360,899	Apr. 12	716	189	39	140
Tassels and manufacturing the same. Netted overskirt for.....	C. W. Jackson.....	373,982	Nov. 29	2553	686	41	985
Tax duplicate and receipt.....	H. B. Lowe.....	365,396	June 28	1747	453	39	1442
Tea-kettle.....	H. Sangster.....	356,895	Feb. 1	217	61	38	461
Tea-kettle.....	I. Van Hagen.....	364,151	May 31	2966	771	39	1063
Tea-kettle nozzle.....	G. Collins.....	359,061	Mar. 8	938	239	38	1082
Tea or coffee infuser.....	W. F. Schutte.....	369,742	Sept. 13	586	159	40	1154
Tea or coffee pot.....	H. B. Beach and S. W. Babbitt.....	365,227	June 21	1478	389	39	1380
Tea or coffee pot.....	F. C. Taylor.....	359,292	Mar. 15	1245	323	38	1147
Tea-pot.....	T. Loughran.....	356,484	Jan. 25	1706	445	38	349
Tea-pot handle.....	E. E. Stow.....	358,580	Mar. 1	251	59	38	950
Teaching fractions. Device for.....	F. B. Shannon.....	356,167	Jan. 18	1253	{ 331 332 333 }	{ 38 }	255
Teaching music. Device for.....	R. Nix.....	367,156	July 26	1927	{ 520 521 }	{ 40 }	388
Teaching penmanship. Device for.....	W. C. Hatcher.....	364,249	June 7	67	20	39	1101

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Teaching spelling. Kindergarten apparatus for	H. Bodey	371,815	Oct. 18	1536	397	41	320
Teaching spelling, &c. Kindergarten apparatus for .	T. Dougherty	366,821	July 19	1473	393	40	294
Teaching spelling. Kindergarten game for	I. B. Oakley	364,845	June 14	928	245	39	1269
Teeth. Artificial	J. A. Throckmorton	365,764	June 28	2297	597	39	1547
Teeth. Filling	C. H. Land	375,167	Dec. 20	1455	380	41	1344
Teeth. Making crowns for	J. J. R. Patrick	373,751	Nov. 22	2218	594	41	914
Teeth-separator	S. G. Perry	366,025	July 5	384	103	40	72
Teeth. Tool for filling	A. Williams	368,988	Aug. 30	2378	632	40	939
Telegraph and other poles or posts. Manufacture of .	D. Wilson	374,103	Nov. 29	2729	{ 732 733 }	{ 41 41 }	{ 1021 1021 }
Telegraph. Acoustic	J. H. Irwin	367,042	July 26	1757	474	40	357
Telegraph. Autographic	J. H. Robertson	357,038	Feb. 1	418	111	38	499
Telegraph. Autographic	J. H. Robertson	357,039	Feb. 1	419	112	38	499
Telegraph. Automatic fire-	M. Martin	360,968	Apr. 12	824	211	39	158
Telegraph. Automatic printing-	C. G. Burke	360,994	Apr. 12	866	220	39	164
Telegraph. Automatic printing-	C. G. Burke	360,995	Apr. 12	871	{ 220 221 }	{ 39 39 }	{ 165 165 }
Telegraph-cables. Manufacture of	W. R. Patterson	356,206	Jan. 18	1301	344	38	264
Telegraph-circuits. Calling apparatus for	J. W. Larish	361,365	Apr. 19	1406	362	39	277
Telegraph. Duplex	J. W. Larish and W. Maver, Jr.	361,364	Apr. 19	1404	362	39	277
Telegraph. Fire-	J. H. Guest	358,393	Feb. 22	2375	632	38	887
Telegraph. Fire-alarm	C. Burgher	371,876	Oct. 18	1630	{ 421 422 }	{ 41 41 }	{ 339 339 }
Telegraph. Helio-	J. P. Finley and J. D. Smith	360,425	Apr. 5	31	9, 10	39	8
Telegraph-instrument	C. G. Burke	374,038	Nov. 29	2630	{ 705 706 }	{ 41 41 }	{ 1000 1000 }
Telegraph-instrument	W. A. Melbourne	366,970	July 19	1664	447	40	331
Telegraph-key	A. S. Keating	366,400	July 12	883	237	40	175
Telegraph-key	D. Kunhardt	368,342	Aug. 16	1455	388	40	745
Telegraph-key	A. Oakes	373,152	Nov. 15	1322	350	41	732
Telegraph key and sounder	G. M. Lane	372,155	Oct. 25	2055	526	41	425
Telegraph lines or cables. Terminal	W. H. Sawyer	359,816	Mar. 22	2064	523	38	1313
Telegraph-messages and the like. Apparatus for use in copying	A. C. Carey	370,683	Sept. 27	1997	531	40	1431
Telegraph. Municipal	M. Martin	375,299	Dec. 20	1617	424	41	1377
Telegraph-pole protector	H. P. Copeland	373,925	Nov. 29	2470	663	41	969
Telegraph-poles. Setting	W. Murray	359,622	Mar. 22	1775	452	38	1261
Telegraph. Printing-	A. Bixby	374,444	Dec. 6	389	{ 102 103 }	{ 41 41 }	{ 1120 1120 }
Telegraph. Printing-	S. V. Essick	365,059	June 21	1245	{ 327 328 329 }	{ 39 39 39 }	{ 1337 1337 1337 }
Telegraph. Printing-	S. D. Field	370,691	Sept. 27	2013	535	40	1434
Telegraph. Printing-	C. L. Healy	365,994	July 5	335	89	40	64
Telegraph. Printing-	J. H. Linville	368,217	Aug. 16	1269	{ 338 339 340 }	{ 40 40 40 }	{ 708 708 708 }
Telegraph. Printing-	H. Mahnken	368,541	Aug. 16	1743	464	40	799
Telegraph. Printing-	D. E. Pike	355,662	Jan. 4	496	132	38	97
Telegraph. Printing-	G. B. Scott	365,705	June 28	2204	576	39	1529
Telegraph. Printing-	R. J. Sheehy	368,692	Aug. 23	1954	518	40	850
Telegraph. Printing-	R. J. Sheehy	368,858	Aug. 23	2187	{ 580 581 }	{ 40 40 }	{ 893 893 }
Telegraph. Printing-	R. J. Sheehy	368,859	Aug. 23	2189	581	40	894
Telegraph. Printing-	R. J. Sheehy	370,357	Sept. 20	1498	402	40	1333
Telegraph. Printing-	R. J. Sheehy	370,978	Oct. 4	362	90, 91	41	72
Telegraph. Printing-	C. J. Wiley	373,508	Nov. 22	1875	{ 498 499 }	{ 41 41 }	{ 847 847 }
Telegraph. Printing-	W. B. Wood	369,577	Sept. 6	362	101	40	1103
Telegraph. Railway-	L. J. Phelps	369,880	Sept. 13	797	213	40	1194
Telegraph receiver. Printing-	H. Mahnken	367,720	Aug. 2	561	153	40	557
Telegraph receiver. Printing-	H. Mahnken and C. L. Healy	366,178	July 5	579	155	40	109
Telegraph-receiver	C. Selden	370,898	Oct. 4	231	59	41	45
Telegraph receivers. Type-wheel for printing-	C. L. Healy	366,628	July 12	1204	322	40	238
Telegraph receiving-instrument	W. Arthur	355,431	Jan. 4	179	48	38	36
Telegraph-sounder	R. C. Rutherford	357,789	Feb. 15	1540	401	38	725
Telegraph system. Induction-	G. T. Woods	373,915	Nov. 29	2458	660	41	967
Telegraph system. Multiple	A. M. A. Beale	360,988	Apr. 12	855	218	39	163
Telegraph system. Multiple	C. Selden	363,969	May 31	2716	704	39	1015
Telegraph system. Police-	J. F. Mehren and W. Carroll	359,575	Mar. 15	1683	430	38	1228
Telegraph systems. Individual call for municipal	B. J. Noyes	359,689	Mar. 22	1865	474	38	1278
Telegraph-transmitter	A. Bixby	374,390	Dec. 6	310	83	41	1105
Telegraph-transmitter. Printing-	C. L. Healy	366,166	July 5	561	151	40	106
Telegraph-wires. Preventing noise occasioned by vibrations of	P. E. Bardonnaut	355,753	Jan. 11	635	165	38	134
Telegraph-wires. Underground cable for	R. F. Silliman	366,263	July 12	707	192	40	141
Telegraphs. Repeater for harmonic	F. Van Rysselberghe	370,576	Sept. 27	1840	489	40	1401
Telegraphs. Switch and circuit for	S. Weaver	361,797	Apr. 26	2016	525	39	399
Telegraphs. Transmitter for printing-	S. D. Field	365,982	July 5	320	85	40	61
Telegraphic alphabet	W. A. Leggo	364,356	June 7	205	57	39	1127
Telegraphic transmitter	W. H. Bloom	368,450	Aug. 16	1616	432	40	776
Telegraphic transmitter	W. W. Evans	372,846	Nov. 8	855	{ 228 229 }	{ 41 41 }	{ 637 637 }
Telegraphic transmitter	G. Juengst	372,805	Nov. 8	799	214	41	628
Telegraphic-wire joint	D. P. Emminger	369,238	Aug. 30	2707	719	40	1005
Telegraphy	W. T. Barnard	360,844	Apr. 12	633	168	39	126
Telegraphy	A. M. A. Beale	360,986	Apr. 12	846	217	39	162
Telegraphy	A. M. A. Beale	360,987	Apr. 12	850	217	39	162
Telegraphy	L. Bock, Jr	364,471	June 7	376	103	39	1159
Telegraphy	R. G. Brown	355,860	Jan. 11	793	208	38	161
Telegraphy	R. G. Brown	358,379	Feb. 22	2355	{ 626 627 }	{ 38 38 }	{ 884 884 }
Telegraphy	P. B. Delany	373,967	Nov. 29	2533	681	41	981
Telegraphy	P. B. Delany	373,968	Nov. 29	2536	682	41	981

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Telegraphy	T. A. Edison	370,132	Sept. 20	1189	314	40	1273
Telegraphy	L. Maiche	364,271	June 7	95	27	39	1107
Telegraphy	L. Maiche	366,229	July 12	662	{ 179 180 }	40	133
Telegraphy	C. Selden	358,890	Mar. 8	710	176	38	1039
Telegraphy	F. Van Rysselberghe	361,734	Apr. 26	1923	499	39	382
Telegraphy	F. Van Rysselberghe	363,188	May 17	1593	418	39	787
Telegraphy. Autographic	J. E. Watson	372,245	Oct. 25	2187	{ 561 562 }	41	451
Telegraphy. Automatic	W. A. Leggo	372,475	Nov. 1	280	77. 78	41	524
Telegraphy. Automatic	C. Selden	365,103	June 21	1311	347	39	1348
Telegraphy. Automatic and autographic	C. Selden	371,980	Oct. 25	1783	462	41	377
Telegraphy. Duplex	G. W. Gardanier	361,356	Apr. 19	1395	359	39	275
Telegraphy. Phono-multiple	F. Van Rysselberghe	370,577	Sept. 27	1841	{ 489 490 }	40	1402
Telegraphy. Quadruplex	F. W. Jones	360,528	Apr. 5	199	49	39	39
Telegraphy. Quadruplex	G. Smith	366,695	July 19	1303	349	40	264
Telegraphy. Railway	L. J. Phelps	355,468	Jan. 4	224	60	38	45
Telegraphy. Railway	L. J. Phelps	355,469	Jan. 4	228	60, 61	38	46
Telegraphy. Railway	L. J. Phelps	355,470	Jan. 4	231	61	38	47
Telegraphy. Railway	G. T. Woods	373,383	Nov. 15	1673	444	41	797
Telegraphy. Railway-car	J. A. Barrett	359,990	Mar. 29	2345	591	38	1371
Telegraphy. Synchronous	R. G. Brown	364,893	June 14	994	{ 261 262 }	39	1281
Telegraphy. Synchronous	R. G. Brown	364,894	June 14	998	262	39	1282
Telegraphy. System of synchronism for	G. A. Cassagnes	368,931	Aug. 30	2302	612	40	925
Telegraphy. System of synchronism for	G. A. Cassagnes	375,339	Dec. 27	1679	441	41	1397
Telephone	C. S. Bell	361,481	Apr. 19	1556	403	39	306
Telephone	C. E. Egan	355,685	Jan. 11	536	141	38	114
Telephone	C. E. Egan	355,687	Jan. 11	538	141	38	115
Telephone	H. V. Hayes	370,477	Sept. 27	1692	449	40	1375
Telephone	W. D. House	358,812	Mar. 1	576	144	38	1010
Telephone	E. H. Johnson	356,688	Jan. 25	1982	521	38	401
Telephone	E. H. Johnson	356,689	Jan. 25	1983	521	38	401
Telephone	E. C. Newton	375,456	Dec. 27	1833	479	41	1427
Telephone	N. F. Palmer	358,940	Mar. 8	777	195	38	1052
Telephone	H. L. Todd	368,628	Aug. 23	1861	497	40	831
Telephone	H. E. Waite	360,068	Mar. 29	2486	632	38	1398
Telephone	F. C. Watkins	369,376	Sept. 6	98	30	40	1052
Telephone	N. F. Palmer	358,939	Mar. 8	776	195	38	1052
Telephone and telegraph	I. H. Farnham	373,519	Nov. 22	1899	504	41	851
Telephone apparatus	C. Balloch	359,492	Mar. 15	1545	395	38	1203
Telephone-cabinet	C. Wittenberg	355,741	Jan. 11	620	162	38	131
Telephone-cabinet	W. R. Patterson	369,122	Aug. 30	2569	683	40	976
Telephone-cables. Test-circuit for	C. E. Scribner	373,910	Nov. 29	2452	{ 658 659 }	41	965
Telephone call-box	G. A. Wilkins	361,737	Apr. 26	1927	500	39	383
Telephone-call. Magneto-electric	A. F. Adams	372,247	Oct. 25	2190	562	41	451
Telephone call-register	F. A. Forbes	375,280	Dec. 20	1596	418	41	1372
Telephone-cord tip	J. D. Richardson	364,133	May 31	2940	764	39	1058
Telephone-desk	M. Martin	369,256	Aug. 30	2732	728	40	1010
Telephone. Electric speaking	W. H. Eastman	373,060	Nov. 15	1178	315	41	706
Telephone-exchange. Acoustic	W. M. Goodridge	367,754	Aug. 2	606	164	40	565
Telephone-exchange apparatus	T. D. Lockwood	372,378	Nov. 1	140	41	41	496
Telephone-exchange. Automatic	C. E. Scribner	356,427	Jan. 18	1618	424	38	324
Telephone-exchange. Factory	W. H. Eastman	375,316	Dec. 20	1647	432	41	1382
Telephone-exchange. Mechanical	J. J. O'Connell	362,652	May 10	837	228	39	636
Telephone-exchange switches. Testing apparatus for	G. L. Wiley	358,317	Feb. 22	2272	599	38	868
Telephone-exchange system	E. P. Warner	356,859	Feb. 1	164	44	38	453
Telephone-exchanges. Multiple-switch-board system for	A. L. Hott	371,757	Oct. 18	1450	375	41	303
Telephone-holder	F. C. Watkins	357,053	Feb. 1	438	116	38	503
Telephone-hook	J. M. Baker	373,043	Nov. 15	1155	309	41	701
Telephone-instrument signal	C. C. Gould	356,038	Jan. 11	1060	278	38	214
Telephone-instruments. Grounding-switch for	G. W. Lord	361,302	Apr. 19	1319	339	39	262
Telephone-line hanger. Mechanical	G. W. Lord	359,218	Mar. 8	1143	297	38	1121
Telephone lines. Angle-hanger for mechanical	A. W. S. Davis	365,798	July 5	54	15	40	12
Telephone. Magneto	H. E. Waite	355,734	Jan. 11	608	158	38	129
Telephone. Mechanical	J. W. Colby	371,551	Oct. 18	1153	300	41	243
Telephone. Mechanical	W. H. Eastman	371,439	Oct. 11	998	259	41	203
Telephone. Mechanical	W. H. Eastman and D. J. Adams	375,315	Dec. 20	1646	431	41	1382
Telephone. Mechanical	M. Garl	361,499	Apr. 19	1577	409	39	310
Telephone. Mechanical	J. H. Howard	357,995	Feb. 15	1817	477	38	778
Telephone. Mechanical	J. S. Jones	358,357	Feb. 22	2327	617	38	878
Telephone. Mechanical	J. Laubhoff	363,249	May 17	1665	436	39	801
Telephone. Mechanical	J. Laubhoff	365,525	June 28	1943	506	39	1481
Telephone. Mechanical	G. W. Lord	356,594	Jan. 25	1853	487	38	377
Telephone. Mechanical	G. W. Lord	359,215	Mar. 8	1140	296	38	1120
Telephone. Mechanical	G. W. Lord	359,216	Mar. 8	1142	296	38	1120
Telephone. Mechanical	G. W. Lord	359,217	Mar. 8	1142	296	38	1120
Telephone. Mechanical	C. M. Radford	357,967	Feb. 15	1777	466	38	770
Telephone. Mechanical	C. M. Radford	360,362	Mar. 29	2934	746	38	1479
Telephone. Mechanical	J. P. Sunderland	373,862	Nov. 29	2383	641	41	953
Telephone. Mechanical	T. H. Weinhaus	355,363	Jan. 4	96	26	38	20
Telephone. Pneumatic	J. P. Hurley and G. F. Perkins	366,319	July 12	778	{ 210 211 }	40	155
Telephone-receiver	W. C. Barney	357,360	Feb. 8	885	233	38	594
Telephone-receiver	E. T. Gilliland	356,197	Jan. 18	1291	341	38	262
Telephone-receiver	J. H. Tabony	360,626	Apr. 5	336	84	39	64
Telephone-receiver	F. C. Watkins	355,424	Jan. 4	173	45	38	35
Telephone-register	C. Wittenberg	355,743	Jan. 11	622	163	38	132
Telephone-register	C. Wittenberg	359,307	Mar. 15	1265	328	38	1151
Telephone-register	C. Wittenberg	359,308	Mar. 15	1267	328	38	1151

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Telephone-signal	C. E. Chinnock	355,383	Jan. 4	119	33	38	25
Telephone-signal	C. R. Swain	359,984	Mar. 22	2335	587	38	1362
Telephone-signal	F. C. Watkins	357,052	Feb. 1	437	116	38	503
Telephone-stations. Toll-collecting apparatus for public }	J. H. Tabony	359,747	Mar. 22	1952	{ 495 496 }	{ 38 38 }	1293
Telephone-support	S. Rosenblatt	357,337	Feb. 8	857	224	38	589
Telephone-support	S. Rosenblatt	362,115	May 3	90	27	39	490
Telephone-switch	W. M. Goodridge	371,260	Oct. 11	747	192	41	155
Telephone-switch	C. A. Hitchcock	359,356	Mar. 15	1336	345	38	1164
Telephone-switch	C. A. Hitchcock and W. Burnley	356,040	Jan. 11	1062	378	38	215
Telephone-switch	J. W. McDonough and H. H. Eldred	357,682	Feb. 15	1377	362	38	696
Telephone-switch. Automatic	F. C. Watkins	357,051	Feb. 1	435	{ 115 116 }	{ 38 38 }	502
Telephone switch-board. Central-office	F. C. Watkins	355,425	Jan. 4	173	279	38	35
Telephone switch. Mechanical	G. F. Shaver	365,868	July 5	156	41	40	32
Telephone switch system	C. C. Gould and W. Smith	355,928	Jan. 11	899	45	38	183
Telephone switch system	C. C. Gould and W. Smith	355,929	Jan. 11	904	236	38	184
Telephone system	A. M. A. Beale	356,300	Jan. 18	1437	237	38	290
Telephone system	J. O. Stockwell	357,134	Feb. 1	582	149	38	528
Telephone system	F. C. Watkins	370,293	Sept. 20	1407	378	40	1315
Telephone system and apparatus	G. T. Woods	371,241	Oct. 11	717	184	41	149
Telephone system. Police	W. H. Eckert and J. A. Seely	365,911	July 5	218	56	40	42
Telephone-toll collector and register	C. Wittenberg	355,744	Jan. 11	624	163	38	132
Telephone-toll collector and register	C. Wittenberg	355,746	Jan. 11	626	{ 163 164 }	{ 38 38 }	132
Telephone toll-collectors. Return attachment for	C. Wittenberg	359,306	Mar. 15	1264	327	38	1151
Telephone-transmitter	W. C. Barney	357,359	Feb. 8	883	232	38	594
Telephone-transmitter	F. Blake	357,452	Feb. 8	1017	270	38	619
Telephone-transmitter	J. W. Bonta	364,475	June 7	382	104	39	1160
Telephone-transmitter	J. W. Bonta	365,776	July 5	9	3	40	4
Telephone-transmitter	J. W. Bonta	365,777	July 5	10	3	40	5
Telephone-transmitter	J. W. Bonta	365,778	July 5	12	4	40	5
Telephone-transmitter	J. W. Bonta	365,779	July 5	12	4	40	5
Telephone-transmitter	J. W. Bonta	365,780	July 5	13	4	40	5
Telephone-transmitter	J. W. Bonta	365,781	July 5	14	5	40	5
Telephone-transmitter	W. Burnley	361,047	Apr. 12	943	238	39	179
Telephone-transmitter	C. E. Egan	355,686	Jan. 11	537	141	38	114
Telephone-transmitter	J. P. Freeman	356,034	Jan. 11	1051	276	38	212
Telephone-transmitter	N. F. Palmer	358,941	Mar. 8	779	{ 195 196 }	{ 38 38 }	1053
Telephone-transmitter	H. P. Pratt and L. O. McPherson	355,838	Jan. 11	759	199	38	155
Telephone-transmitter	J. C. H. Stut	355,952	Jan. 11	944	{ 246 247 248 }	{ 38 38 38 }	191
Telephone-transmitter	J. H. Tabony	359,188	Mar. 8	1092	284	38	1112
Telephone-transmitter	F. C. Watkins	355,426	Jan. 4	174	46	38	35
Telephone-transmitter	F. C. Watkins	369,379	Sept. 6	100	30	40	1052
Telephone use. Desk for	C. A. Patterson	357,687	Feb. 15	1383	{ 363 364 }	{ 38 38 }	697
Telephoning	J. W. Bonta	361,124	Apr. 12	1049	265	39	200
Telephones. Adjustable support and automatic switch for	S. P. Jermain	370,193	Sept. 20	1280	341	40	1290
Telephones. Alarm and register attachment for	C. Wittenberg	355,742	Jan. 11	621	162	38	132
Telephones and fire and burglar alarms. Electric circuit for	S. Taussig	359,824	Mar. 22	2074	525	38	1315
Telephones. Attachment for	T. C. Bradford	366,994	July 19	1694	455	40	336
Telephones. Auditory transmitter for	M. H. Allison	370,230	Sept. 20	1325	353	40	1299
Telephones. Device for attaching tablets to	H. H. Butler	373,767	Nov. 22	2247	601	41	918
Telephones. Ear-piece for	G. A. Huewe	367,003	July 19	1703	458	40	338
Telephones. Ear-piece for	G. A. Huewe	367,004	July 19	1704	{ 458 459 }	{ 40 40 }	338
Telephones. Register attachment for	C. Wittenberg	355,745	Jan. 11	625	163	38	132
Telephones. Resonant attachment for	E. A. Balloch	370,847	Oct. 4	143	39	41	29
Telephonic intercommunication. System of	J. A. McCoy	367,219	July 26	2009	543	40	404
Telephony	J. J. Carty	363,449	May 24	1942	509	39	861
Telephony. Electric	A. G. Safford	366,190	July 5	596	161	40	113
Tellurian	G. W. Benedict	362,871	May 10	1137	306	39	691
Tellurian	W. L. Holden	374,409	Dec. 6	337	88	41	1110
Tellurian	P. Rule	357,157	Feb. 1	615	158	38	534
Temperature-alarm	D. McDonald	365,399	June 28	1751	454	39	1443
Temperature-alarm system	A. E. Morrison	365,089	June 21	1288	{ 340 341 }	{ 39 39 }	1344
Temperature-controller	J. E. Holmes	357,829	Feb. 15	1592	413	38	735
Temperature-controller	R. Newton	374,847	Dec. 13	967	253	41	1244
Temperature-controlling device. Electric	H. E. Jacobs	363,644	May 24	2236	579	39	918
Temperature-controlling device. Electric	H. E. Jacobs	363,645	May 24	2238	{ 579 580 }	{ 39 39 }	919
Temperature-controlling device. Electric	H. E. Jacobs	365,600	June 28	2056	536	39	1502
Temperature. Electrical apparatus for regulating	C. W. Johnson	359,392	Mar. 15	1397	358	38	1175
Temperature indicator. Distant	C. G. Short	375,208	Dec. 20	1503	395	41	1355
Temperature-indicator. Electric	J. C. Boyle	374,581	Dec. 13	599	156	41	1171
Temperature-regulator	W. H. Richardson	364,957	June 14	1088	283	39	1298
Temperature-regulator. Automatic electric	W. S. Johnson	366,324	July 12	786	{ 212 213 }	{ 40 40 }	156
Temperature-regulator. Electric	L. F. Easton	373,061	Nov. 15	1179	{ 315 316 }	{ 41 41 }	706
Temperature-regulator. Electric	W. S. Johnson	374,072	Nov. 29	2681	720	41	1011
Temperature-regulator. Electric	C. E. Lee	357,838	Feb. 15	1604	415	38	738
Temperature-regulator for carburetors	E. J. Frost	363,324	May 17	1767	463	39	820
Pemplet for use in gaining stair-stringers	W. H. Parry	374,493	Dec. 6	462	119	41	1134
Tennis-net	J. P. Helfenstein, Jr.	356,639	Jan. 25	1926	505	38	390
Tennis-racket	V. Kent	371,846	Oct. 18	1585	409	41	330
Tennis-racket	G. H. Phelps	360,468	Apr. 5	101	26	39	20
Tennis-rackets. Construction of	E. J. Luce	364,596	June 7	552	149	39	1192

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tenoning and dovetailing machine.....	J. H. Ferguson.....	368,761	Aug. 23	2055	{ 544 545 }	{ 40 40 }	868
Tenoning and mortising machine. Combined.....	J. Du Franes.....	366,822	July 19	1475	393	40	294
Tenoning-machine.....	L. F. Parks.....	374,425	Dec. 6	363	95	41	1115
Tent.....	M. P. McKoon.....	357,329	Feb. 8	847	221	34	587
Tent. Folding portable.....	C. Gray.....	361,505	Apr. 19	1584	411	39	311
Tent-pin extractor.....	H. M. Hyde.....	373,663	Nov. 22	2101	562	41	891
Tent. Umbrella.....	H. J. Rumrille.....	373,378	Nov. 15	1669	443	41	796
Tent-ventilator.....	P. Lewis.....	359,796	Mar. 22	2033	515	38	1307
Terminal or distributing box.....	F. E. Degenhardt.....	364,994	June 14	1143	299	39	1308
Terret. Harness.....	J. Alexander.....	373,631	Nov. 22	2056	548	41	881
Terret. Roller.....	M. Werkheiser.....	369,999	Sept. 13	984	259	40	1228
Testing-machine.....	J. W. Mullen.....	358,056	Feb. 22	1906	504	38	799
Testing rotating parts. Machine for.....	W. W. Huntley.....	360,807	Apr. 5	580	152	39	109
Tether.....	R. B. Adams.....	374,646	Dec. 13	685	180	41	1189
Tetrazodiphenylchloride with resorcin. Combination of.....	P. Friedlaender.....	361,404	Apr. 19	1455	.....	39	286
Textile fabric.....	B. Scarles.....	370,091	Sept. 20	1123	298	40	1261
Textile fabrics. Dry-cleaning.....	J. Scott.....	375,652	Dec. 27	2110	.....	41	1478
Textile fabrics. Form for displaying.....	A. A. Murphy.....	355,833	Jan. 11	755	198	38	154
Textile fabrics from horse-hair. Machine for producing.....	F. Maussner.....	371,610	Oct. 18	1235	322	41	259
Textile fabrics. Manufacture of.....	E. and E. Scheppers.....	362,318	May 3	344	.....	39	540
Textile machinery. Manufacture of toothed cylinders for.....	H. L. Moulton and W. H. Clarkson.....	368,417	Aug. 16	1559	416	40	765
Thatch. Sectional.....	R. Griswold.....	372,465	Nov. 1	270	74	41	522
Theater-chair.....	J. A. Littlefield.....	364,944	June 14	1070	279	39	1295
Theatrical appliance.....	R. J. Cutler.....	370,858	Oct. 4	158	43	41	31
Theatrical apparatus.....	W. A. Mestayer and H. Pincus.....	361,893	Apr. 26	2163	561	39	426
Theatrical stages. Equipment for.....	J. Curry.....	364,221	June 7	30	9	39	1094
Therapeutic battery.....	M. A. Morehouse.....	373,088	Nov. 15	1218	325	41	714
Therapeutic strength-testing machine. Electro.....	E. R. Whitney.....	362,133	May 3	110	34	39	495
Thermo-electric generator.....	E. G. Acheson.....	375,242	Dec. 20	1546	405	41	1363
Thermo-electric generator.....	E. G. Acheson.....	375,243	Dec. 20	1547	406	41	1363
Thermometer.....	G. B. St. John.....	365,354	June 21	1672	436	39	1416
Thermometer. Clinical.....	J. Barry.....	358,141	Feb. 22	2035	535	38	822
Thermometer. Clinical.....	P. J. Miles.....	358,214	Feb. 22	2136	563	38	842
Thermometer. High-temperature.....	W. F. Brewster.....	365,905	July 5	208	53	40	40
Thermometer. Metallic.....	T. W. Shepherd.....	375,576	Dec. 27	1999	520	41	1459
Thermometer. Metallic.....	E. W. Upton.....	367,869	Aug. 9	773	208	40	607
Thermometer. Night.....	C. H. Myers.....	360,038	Mar. 29	2430	{ 617 618 }	{ 38 38 }	1387
Thermometer or thermoscope.....	H. J. Haight.....	356,761	Feb. 1	28	9	38	428
Thermometer. Oven.....	D. G. Cooper.....	360,950	Apr. 12	794	205	39	153
Thermometer. Recording.....	W. A. H. Bogardus.....	368,319	Aug. 16	1426	{ 377 378 }	{ 40 40 }	739
Thermometer. Recording.....	W. F. Brewster.....	373,719	Nov. 22	2176	582	41	906
Thermometer. Recording.....	D. Draper.....	369,170	Aug. 30	2623	{ 696 697 }	{ 40 40 }	988
Thermometer. Recording.....	D. Draper.....	369,171	Aug. 30	2625	697	40	989
Thermometer-scale.....	G. B. St. John.....	367,863	Aug. 9	768	207	40	606
Thermometer-scale.....	G. E. Taylor.....	355,846	Jan. 11	772	202	38	157
Thermoscope. Electro-magnetic.....	H. J. Haight.....	358,350	Feb. 22	2317	614	38	876
Thermoscope. Electro-magnetic.....	H. J. Haight.....	362,957	May 17	1271	{ 336 337 338 }	{ 39 39 38 }	723
Thermoscope. Electro-magnetic transmitting and distributing.....	H. J. Haight.....	359,210	Mar. 8	1128	{ 293 294 160 161 162 163 164 }	{ 38 38 38 38 38 38 38 }	1118
Thermoscope. Self-signaling and self-recording electro-magnetic.....	H. J. Haight.....	358,854	Mar. 8	650	{ 160 161 162 163 164 }	{ 38 38 38 38 38 }	1029
Thermostat.....	W. H. H. Barton.....	371,121	Oct. 4	554	141	41	110
Thermostat.....	J. L. Campbell.....	357,463	Feb. 8	1037	274	38	623
Thermostat.....	J. L. Campbell.....	358,728	Mar. 1	456	111	38	988
Thermostat.....	H. E. Jacobs.....	365,438	June 28	1805	470	39	1453
Thermostat.....	E. W. Upton.....	358,511	Mar. 1	129	33	38	928
Thermostat. Electric.....	R. L. Guion.....	362,213	May 3	214	63	39	514
Thermostat or fire-alarm. Electric.....	W. F. Singer.....	360,823	Apr. 5	600	158	39	113
Thermostatic circuit-closer.....	W. S. Johnson.....	364,518	June 7	437	118	39	1170
Thill-coupling.....	W. B. Allen.....	362,052	May 3	3	1	39	473
Thill-coupling.....	E. H. Augspurger.....	367,354	Aug. 2	2	1	40	451
Thill-coupling.....	L. S. Avery.....	368,505	Aug. 16	1696	452	40	790
Thill-coupling.....	C. S. Bailey and W. P. Sheets.....	360,754	Apr. 5	504	130	39	95
Thill-coupling.....	F. W. Barrett.....	365,722	June 28	2231	581	39	1534
Thill-coupling.....	E. H. Belden.....	371,410	Oct. 11	957	247	41	194
Thill-coupling.....	J. A. Boozel and J. C. Mooney.....	365,782	July 5	15	5	40	6
Thill-coupling.....	W. G. Boughton.....	358,535	Mar. 1	184	43	38	936
Thill-coupling.....	H. L. Boyle.....	367,265	July 26	2085	563	40	418
Thill-coupling.....	C. H. Brace.....	368,451	Aug. 16	1618	432	40	776
Thill-coupling.....	H. D. Brown.....	356,304	Jan. 18	1443	379	38	291
Thill-coupling.....	G. C. Burch.....	371,170	Oct. 11	623	159	41	131
Thill-coupling.....	S. Burdsall.....	369,689	Sept. 13	523	145	40	1144
Thill-coupling.....	W. C. Burrows.....	357,974	Feb. 15	1785	469	38	772
Thill-coupling.....	W. C. Burrows.....	374,343	Dec. 6	249	66	41	1094
Thill-coupling.....	F. L. Burton.....	373,174	Nov. 15	1356	359	41	738
Thill-coupling.....	J. Christiff.....	357,761	Feb. 15	1505	392	38	719
Thill-coupling.....	J. L. Cook.....	371,428	Oct. 11	983	256	41	200
Thill-coupling.....	F. R. Crumbaker.....	365,052	June 21	1234	325	39	1335
Thill-coupling.....	D. M. Denehy.....	368,282	Aug. 16	1385	365	40	730
Thill-coupling.....	J. L. Downing and S. R. Ward.....	358,150	Feb. 22	2045	538	38	824
Thill-coupling.....	E. L. Dunklee.....	359,011	Mar. 8	876	223	38	1070
Thill-coupling.....	M. H. Durst.....	367,745	Aug. 2	594	161	40	563

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Thill-coupling	J. Edgar	372,366	Nov. 1	124	37, 38	41	494
Thill-coupling	J. W. Findley	358,443	Mar. 1	29	9	38	909
Thill-coupling	J. B. Fink	368,143	Aug. 9	1163	310	40	680
Thill-coupling	S. Forter	373,652	Nov. 22	2088	558	41	888
Thill-coupling	C. E. Gillespie	368,202	Aug. 16	1253	334	40	705
Thill-coupling	C. L. Goehring	360,771	Apr. 5	531	137	39	99
Thill-coupling	J. J. Hahn	356,998	Feb. 1	356	94	38	488
Thill-coupling	G. E. Hamlin	371,683	Oct. 18	1342	347	41	281
Thill-coupling	I. C. Hart	359,387	Mar. 15	1392	356	38	1174
Thill-coupling	N. W. Hawkenson	366,314	July 12	774	209	40	154
Thill-coupling	W. H. Henne and G. Tippin	370,785	Oct. 4	50	12	41	12
Thill-coupling	E. F. Hopkins	372,150	Oct. 25	2049	525	41	424
Thill-coupling	T. Hunger	359,973	Mar. 22	2322	584	38	1360
Thill-coupling	E. P. Irons	372,021	Oct. 25	1840	477	41	387
Thill-coupling	D. A. Johnson	365,131	June 21	1356	359	39	1356
Thill-coupling	J. R. Johnson	372,224	Oct. 25	2157	553	41	445
Thill-coupling	E. P. Joslyn	371,506	Oct. 11	1092	284	41	222
Thill-coupling	F. P. Keniston	358,780	Mar. 1	526	128	38	1001
Thill-coupling	H. and J. Knupp	373,590	Nov. 22	1998	530	41	868
Thill-coupling	W. H. Loomis	362,753	May 10	990	268	39	664
Thill-coupling	J. M. Mackey	368,843	Aug. 23	2171	575	40	890
Thill-coupling	T. G. Mandt	375,643	Dec. 27	2098	546	41	1476
Thill-coupling	R. McLaughlin	360,610	Apr. 5	314	77	39	60
Thill-coupling	P. T. McMillan and H. T. Hill	364,032	May 31	2798	724	39	1031
Thill-coupling	C. C. Munroe	372,166	Oct. 25	2066	529	41	427
Thill-coupling	D. Murray	357,221	Feb. 8	705	182	38	560
Thill-coupling	F. P. Musser	374,846	Dec. 13	966	252	41	1244
Thill-coupling	J. C. Oliver	357,225	Feb. 8	710	183	38	561
Thill-coupling	D. J. Owen	363,254	May 17	1673	438	39	802
Thill-coupling	I. P. Owens	366,976	July 19	1673	450	40	332
Thill-coupling	C. R. Patterson	364,849	June 14	932	246	39	1269
Thill-coupling	C. R. Patterson	366,604	July 12	1174	315	40	232
Thill-coupling	A. E. Peterson	361,889	Apr. 26	2158	559	39	425
Thill-coupling	A. Poulson and H. M. Schneider	366,684	July 19	1290	344	40	261
Thill-coupling	J. B. Rathbun	370,210	Sept. 20	1299	346	40	1294
Thill-coupling	P. P. Schau	362,186	May 3	176	52	39	508
Thill-coupling	P. E. Shirk	374,634	Dec. 13	670	176	41	1186
Thill-coupling	A. W. Sibley	358,577	Mar. 1	248	58	38	949
Thill-coupling	J. T. Sollenberger	370,094	Sept. 20	1127	299	40	1262
Thill-coupling	J. M. Spencer and G. W. Beebe	355,795	Jan. 11	699	183	38	145
Thill-coupling	W. D. Stewart	362,403	May 3	459	127	39	564
Thill-coupling	C. Stilwell	375,220	Dec. 20	1521	400	41	1359
Thill-coupling	C. E. Struck	372,093	Oct. 25	1965	506	41	408
Thill-coupling	W. F. Stuart	365,413	June 28	1765	458	39	1446
Thill-coupling	L. Sutherland	370,905	Oct. 4	243	62	41	48
Thill-coupling	W. H. Tibbits	368,119	Aug. 9	1127	299	40	673
Thill-coupling	J. Torrance	364,144	May 31	2958	768	39	1061
Thill-coupling	W. P. Tracy	374,019	Nov. 29	2602	698	41	995
Thill-coupling	C. Twombly	374,566	Dec. 6	576	151	41	1158
Thill-coupling	W. Watkins	358,708	Mar. 1	428	104	38	984
Thill-coupling	J. E. Woll	370,839	Oct. 4	122	32	41	25
Thill-coupling	J. W. Yous	370,587	Sept. 27	1859	493	40	1405
Thill-coupling bolt	O. M. Stroup	365,761	June 28	2293	596	39	1546
Thill-couplings. Anti-rattler for	S. J. Bingham	369,427	Sept. 6	162	47	40	1062
Thill-couplings. Anti-rattler for	S. J. Bingham	369,428	Sept. 6	163	47	40	1062
Thill-holder	C. H. and G. D. Sampson	372,770	Nov. 8	733	{ 198 199 }	{ 41 41 }	616
Thill-shackle	T. Derrick	364,634	June 14	602	161	39	1209
Thill. Shifting	J. G. Richardson	358,221	Feb. 22	2145	565	38	844
Thill. Shifting sleigh	H. Duffey and R. D. Woodford	367,377	Aug. 2	29	7, 8	40	456
Thills. Machine for bending carriage	T. E. Montague	356,952	Feb. 1	285	79, 80	38	474
Thimble	S. A. Wells	362,593	May 10	743	205	39	618
Thimble-skein	J. E. Young	367,773	Aug. 2	636	170	40	570
Thong-cutter	G. Marsh	375,372	Dec. 27	1725	452	41	1406
Thrasher. Traveling	J. Parnell	366,242	July 12	680	184	40	136
Thrashers. Counting attachment for	J. C. Rand and E. Thompson	375,507	Dec. 27	1895	496	41	1439
Thrashers. Dust-conveyer for	L. A. Miller	364,184	May 31	3011	781	39	1072
Thrashing-machine	J. P. Carr, Sr.	372,118	Oct. 25	2002	513	41	415
Thrashing-machine	F. M. Carter	358,834	Mar. 8	613	152	38	1022
Thrashing-machine	J. F. Hanson	356,121	Jan. 18	1195	317	38	245
Thrashing-machine	W. Mogridge and W. Giberson	365,620	June 28	2080	{ 542 543 }	{ 39 39 }	1507
Thrashing-machine	T. W. Morgan and J. C. Tolson	357,495	Feb. 8	1078	285	38	632
Thrashing-machine	G. W. Morris	373,678	Nov. 22	2118	{ 566 567 }	{ 41 41 }	894
Thrashing-machine	N. Thull, Jr., and N. Weber	369,570	Sept. 6	355	98	40	1101
Thrashing-machine feeder	W. E. Phillips	373,944	Nov. 29	2498	671	41	974
Thrashing-machines. Band-cutter and feeder for	J. H. Spurgin	365,548	June 28	1974	{ 514 515 }	{ 39 39 }	1488
Thrashing-machines. Straw-elevator for	D. Binns	358,251	Feb. 22	2183	575	38	850
Thread and winding it into cops. Machine for wax- ing	D. H. Campbell	374,935	Dec. 20	1114	{ 291 292 }	{ 41 41 }	1281
Thread cutter and holder. Combined	J. G. Fox	367,035	July 26	1748	471	40	355
Thread cutter and holder. Combined	L. A. Pratt	368,548	Aug. 16	1754	466	40	801
Thread-cutting die and holder	J. S. Henry	374,599	Dec. 13	625	163	41	1176
Thread-holder for spools	R. W. Kenyon and B. Baron	358,675	Mar. 1	382	92	38	975
Thread-twisting machine	J. J. and J. A. O'Connor	372,700	Nov. 8	616	167	41	597
Threads. Mechanism for forming	H. A. Nettleton	365,621	June 28	2081	543	39	1507
Threading, cutting, and reaming. Machine for	W. C. and F. E. Wells	355,737	Jan. 11	612	160	38	130
Three-throw split switch	C. A. Lehman	356,365	Jan. 18	1531	{ 402 403 }	{ 38 38 }	308
Throstles or other spinning machines. Register for	D. and F. H. Orme	368,163	Aug. 9	1186	317	40	684
Ticket	W. E. Hering	363,390	May 24	1855	488	39	846
Ticket	J. F. Laning	372,156	Oct. 25	2056	526	41	425

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Ticket. Coupon.....	F. McMichael.....	359,620	Mar. 22	1774	451	38	1260
Ticket-case and diagram. Combined.....	D. D. Grant.....	370,535	Sept. 27	1778	474	40	1390
Ticket. Duplex time.....	W. W. Currie.....	371,126	Oct. 4	560	143	41	111
Ticket-holder.....	W. H. Love.....	372,379	Nov. 1	146	42	41	497
Ticket-holder.....	M. Martin.....	362,758	May 10	998	271	39	665
Ticket-holder.....	E. F. Smith.....	370,214	Sept. 20	1304	347	40	1295
Ticket. Variable.....	W. E. Waller.....	371,008	Oct. 4	406	101	41	81
Tide and current station.....	F. I. Palmer.....	362,175	May 3	166	48	39	505
Tie:							
<i>See</i> Bag-tie. Railway-tie.							
Bale-tie. Railway cross-tie.							
Bale or package tie. Railway-rail tie.							
Cattle-tie. Sack-tie.							
Cross-tie. Umbrella-tie.							
Grape-vine tie.							
Tile.....	J. Baynes.....	369,090	Aug. 30	2528	.....	40	968
Tile. Ceiling.....	W. Buttler.....	356,144	Feb. 1	598	153	38	531
Tile. Chimney-flue.....	E. V. Johnson.....	366,323	July 12	785	212	40	156
Tile for ceilings and floors of buildings.....	J. H. Bright.....	365,295	June 21	1585	{ 412 } 413	{ 39 } 39	1398
Tile for coping.....	G. B. Robbins and H. W. Bell.....	374,705	Dec. 13	765	201	41	1206
Tile. Furring.....	T. W. Snell.....	360,625	Apr. 5	335	84	39	64
Tile. Illuminating.....	J. Jacobs.....	364,113	May 31	2903	753	39	1052
Tile. Illuminating.....	J. W. Mark.....	369,196	Aug. 30	2657	706	40	995
Tile-laying machine.....	J. McMullin.....	361,309	Apr. 19	1328	341	39	263
Tile-laying machine. Drain.....	A. Boucher.....	365,428	June 28	1786	{ 465 } 466	{ 39 } 39	1449
Tile-machine.....	D. Brose and J. Baumgartner.....	360,653	Apr. 5	370	94	39	70
Tile-machine.....	R. J. Carson.....	372,600	Nov. 1	465	125	41	557
Tile-machine.....	W. J. Woolley.....	361,037	Apr. 12	928	235	39	176
Tile machine. Drain.....	R. J. Carson.....	361,132	Apr. 12	1067	270	39	203
Tile. Machine for laying drain.....	H. F. Fisk.....	369,783	Sept. 13	641	173	40	1165
Tile. Roofing.....	J. E. Donaldson.....	368,386	Aug. 16	1508	402	40	756
Tile. Roofing.....	E. C. Lindemann.....	361,425	Apr. 19	1484	383	39	292
Tile. Roofing.....	C. Jüngst.....	367,758	Aug. 2	613	{ 165 } 166	{ 40 } 40	566
Tile trap. Drain.....	J. Maguire.....	360,602	Apr. 5	306	75	39	58
Tile-work.....	D. O. Loy.....	362,846	May 10	1102	{ 298 } 299	{ 39 } 39	685
Tiles for sidewalks, &c. Manufacture of illuminating.	T. Sharts.....	375,101	Dec. 20	1362	355	41	1326
Tiles. Protector for drain.....	W. W. Ingold.....	364,823	June 14	893	235	39	1262
Tiles to form elbows, branches, &c. Machine for cutting drain.	E. A. Stare.....	356,801	Feb. 1	82	23	38	439
Tiling.....	J. H. Cruse.....	374,143	Nov. 29	2783	748	41	1030
Till-alarm.....	L. Goodyear.....	368,084	Aug. 9	1083	{ 288 } 289	{ 40 } 40	665
Tilting and reclining chair.....	S. G. Searritt and J. H. Mosley.....	366,514	July 12	1035	281	40	205
Tilting-chair.....	C. E. Davis.....	357,183	Feb. 8	656	170	38	552
Tilting-chair.....	J. W. Kenna.....	374,971	Dec. 20	1176	{ 306 } 307	{ 41 } 41	1292
Tilting-chair iron.....	J. W. Kenna.....	374,970	Dec. 20	1174	306	41	1292
Timber-bunk.....	J. A. Danielson.....	363,608	May 24	2181	565	39	909
Timber-hangers. Machine for making.....	J. Russell.....	359,099	Mar. 8	983	{ 252 } 253	{ 38 } 38	1091
Timber. Preserving.....	S. B. Boulton.....	360,947	Apr. 12	791	.....	39	152
Timber-roll.....	R. M. Webb.....	364,693	June 14	678	181	39	1224
Time and longitude indicator.....	J. H. Culver.....	357,117	Feb. 1	554	143	38	523
Time by electric lights. System of indicating.....	P. B. Delany.....	360,862	Apr. 12	664	174	39	131
Time-check apparatus.....	J. S. Goldsmith.....	358,032	Feb. 22	1860	{ 492 } 493	{ 38 } 38	791
Time-lock.....	C. N. Brisco.....	366,300	July 12	749	203	40	149
Time-lock.....	C. H. Shaffer.....	359,549	Mar. 15	1633	{ 418 } 419	{ 38 } 38	1220
Time-lock.....	E. Stockwell.....	363,920	May 31	2628	682	39	998
Time-lock.....	E. and H. C. Stockwell.....	363,918	May 31	2622	681	39	997
Time-lock.....	E. and H. C. Stockwell.....	363,919	May 31	2625	{ 681 } 682	{ 39 } 39	998
Time-pieces. Escapement for.....	R. J. Clay and W. Hanson.....	356,189	Jan. 18	1279	337	38	259
Time-pieces. Escapement for.....	C. V. Woerd.....	372,003	Oct. 25	1813	469	41	382
Time-recorder.....	A. Hooper.....	369,450	Sept. 6	193	55	40	1069
Time-recorder. Watchman's.....	J. Bachner.....	359,001	Mar. 8	863	219	38	1067
Time-recorder. Watchman's.....	E. J. Colby.....	359,999	Mar. 29	2363	{ 595 } 596	{ 38 } 38	1374
Time-recorder. Watchman's.....	V. Himmer.....	356,070	Jan. 11	1107	293	38	223
Time-signals. Instrument for transmitting audible.....	J. R. Etter.....	357,310	Feb. 8	827	215	38	583
Time-sounding indicator.....	T. Shaw.....	372,090	Oct. 25	1961	505	41	407
Tin cans. Apparatus for the manufacture of.....	W. Hipperling.....	366,482	July 12	979	266	40	194
Tin from scraps of tinned plate. Recovery of.....	W. Hasenbach.....	363,136	May 17	1516	.....	39	771
Tin from tin-plate and other materials. Recovering.....	A. Lambotte.....	366,118	July 5	503	136	40	95
Tinsel thread. Machine for making.....	J. Derbohlaw.....	364,339	June 7	177	49, 50	39	1122
Tinsmith's beading-machine.....	A. Shepard.....	356,897	Feb. 1	220	61	38	462
Tippet, muff, and chest protector. Combined.....	S. L. Levy.....	359,872	Mar. 22	2161	545	38	1330
Tire-bender.....	H. B. Keiper.....	359,509	Mar. 15	1568	402	38	1207
Tire-blooms. Machine for shearing.....	J. Munton.....	363,842	May 31	2524	656	39	979
Tire-bolt holder.....	J. C. Markam.....	365,142	June 21	1374	363	39	1359
Tire. Carriage-wheel.....	J. U. Burt.....	356,919	Feb. 1	246	68	38	467
Tire coupler. Vehicle.....	L. G. Ballinger.....	367,581	Aug. 2	330	94	40	515
Tire coupling. Wagon.....	J. J. Pinkham.....	359,361	Mar. 15	1342	346	38	1165
Tire for vehicle-wheels.....	H. Smith.....	372,180	Oct. 25	2087	535	41	431
Tire for wheels. Elastic.....	E. C. F. Otto.....	358,291	Feb. 22	2240	591	38	862
Tire-heating furnace.....	R. A. Lewis.....	370,398	Sept. 27	1567	420	40	1353
Tire-indicator.....	J. MacKenzie.....	363,657	May 24	2252	584	39	922
Tire-shrinker.....	D. T. and J. D. Templeton.....	355,357	Jan. 4	91	24	38	19
Tire-shrinking apparatus.....	E. A. Oliver.....	369,204	Aug. 30	2665	709	40	996

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tire-tightener.....	T. H. Bottomley.....	358,253	Feb. 22	2185	576	38	851
Tire-tightener.....	A. Iske.....	362,382	May 3	434	120	39	559
Tire-tightener.....	R. Jennings.....	369,719	Sept. 13	561	153	40	1151
Tire. Vehicle.....	W. Fox.....	375,281	Dec. 20	1596	419	41	1372
Tire. Wagon.....	C. W. Richardson.....	364,545	June 7	490	132	39	1180
Tire. Wheel.....	C. I. Bush.....	373,921	Nov. 29	2466	662	41	968
Tire. Wheel.....	W. H. Carmont.....	364,989	June 14	1137	298	39	1307
Tires. Apparatus for setting.....	P. G. Austin.....	363,272	May 17	1697	444	39	807
Tires. Heating, setting, and removing.....	T. W. Gentry and G. W. O'Brien.....	357,194	Feb. 8	674	174	38	555
Tires in wheel-rims. Securing.....	T. B. Jeffery.....	370,396	Sept. 27	1564	419	40	1352
Tires. Machine for upsetting.....	I. N. Wright.....	357,947	Feb. 15	1745	{ 455 456 }	{ 38 38 }	{ 764 20 }
Tires to wheels. Device for fastening rubber.....	J. A. Turner.....	355,359	Jan. 4	93	25	38	20
Tires to wheels. Securing.....	J. Rigby.....	362,111	May 3	86	26	39	490
Titles. Device for keeping and showing abstracts of.....	S. B. Robertson.....	371,979	Oct. 25	1782	462	41	377
Toaster.....	T. W. Ball.....	359,417	Mar. 15	1438	367	38	1182
Toaster.....	J. A. Downey.....	373,276	Nov. 15	1504	397	41	766
Toaster or meat-broiler. Bread.....	J. E. Harkins and J. B. Willis.....	375,288	Dec. 20	1604	421	41	1374
Tobacco. Apparatus for resweating.....	W. T. Backus, Jr.....	370,846	Oct. 4	142	38, 39	41	29
Tobacco-bag.....	W. J. Cussen.....	355,640	Jan. 4	468	125	38	92
Tobacco-bag.....	W. J. Cussen.....	357,982	Feb. 15	1800	472	38	775
Tobacco-bag.....	W. J. Cussen.....	361,619	Apr. 19	1754	454	39	343
Tobacco bag or wrapper.....	W. J. Cussen.....	370,730	Sept. 27	2076	551	40	1446
Tobacco-booking machine.....	J. Prangley.....	366,251	July 12	692	188	40	139
Tobacco-box.....	A. L. Gresham.....	373,233	Nov. 15	1453	383	41	756
Tobacco-box cover.....	E. Ziesche.....	368,267	Aug. 16	1358	358	40	725
Tobacco-box, match-box, and cigarette-former. Combined.....	W. J. Gardiner.....	367,036	July 26	1749	472	40	355
Tobacco-cases. Moistening-partition for.....	C. N. Swift.....	366,435	July 12	921	250	40	183
Tobacco-conveyer.....	H. B. Light.....	360,598	Apr. 5	301	73	39	57
Tobacco-curing flue.....	J. A. Kernodle.....	365,008	June 14	1161	304	39	1311
Tobacco-cutter.....	J. Schaffer.....	355,415	Jan. 4	162	42	38	33
Tobacco-cutter.....	P. E. Shirk.....	356,603	Jan. 25	1866	491	38	379
Tobacco-cutter. Rotary.....	A. M. Whitney.....	362,345	May 3	381	105	39	548
Tobacco-cutting machine.....	P. F. Dearstyne.....	360,797	Apr. 5	561	146	39	105
Tobacco-cutting machine.....	G. Le Clair.....	370,953	Oct. 4	320	78, 79	41	63
Tobacco-dressing machine.....	I. T. Hardy.....	363,229	May 17	1640	{ 430 431 }	{ 39 39 }	{ 796 1225 }
Tobacco-dressing machine.....	A. Marx.....	369,991	Sept. 13	970	256	40	1225
Tobacco evaporating and heating apparatus.....	R. J. Young.....	370,365	Sept. 20	1515	406	40	1336
Tobacco for cigars. Manufacturing.....	H. Farias.....	368,464	Aug. 16	1636	437	40	779
Tobacco-lath holder.....	J. B. Caughey.....	373,721	Nov. 22	2179	583	41	907
Tobacco-lath holder.....	F. L. Vintree and W. W. Climenon.....	364,978	June 14	1119	292	39	1304
Tobacco-leaves. Machine for treating.....	C. C. Kasey.....	373,460	Nov. 22	1790	476	41	831
Tobacco. Machine for granulating and cleaning.....	J. D. Goodwin.....	358,549	Mar. 1	199	47	38	940
Tobacco machine. Plug.....	J. Noble.....	355,409	Jan. 4	156	40, 41	38	31
Tobacco-package.....	A. T. Ballantine.....	372,104	Oct. 25	1978	508	41	411
Tobacco-pipe.....	W. M. Eccles.....	375,140	Dec. 20	1419	370	41	1336
Tobacco-pipe.....	F. J. Kaldenberg.....	373,559	Nov. 22	1953	518	41	860
Tobacco-pipe.....	F. Roesling.....	364,960	June 14	1093	284	39	1299
Tobacco-pipe.....	A. Werner.....	373,258	Nov. 15	1478	391	41	761
Tobacco-pipe and manufacturing the same.....	A. Ruth.....	372,769	Nov. 8	731	198	41	616
Tobacco-pipes, &c. Sample-exhibitor for.....	F. J. Kaldenberg.....	373,558	Nov. 22	1952	517	41	860
Tobacco-plug extractor.....	F. E. Leslie.....	362,981	May 17	1303	345	39	729
Tobacco-scraper breaker.....	S. P. Collins.....	355,590	Jan. 4	382	103	38	77
Tobacco scrapping and granulating machine.....	M. Kinports.....	371,200	Oct. 11	664	169	41	139
Tobacco-stems. Machine for granulating.....	S. E. Hascall.....	357,317	Feb. 8	833	217	38	585
Tobacco-stick.....	J. F. Erwin.....	355,759	Jan. 11	641	167	38	135
Tobacco-stick.....	S. O. Wilson.....	355,579	Jan. 4	369	99	38	74
Tobacco upon laths. Machine for stringing.....	D. S. Younce, J. C. Shellabarger, and W. H. Nicholas.....	364,621	June 7	577	155	39	1196
Tobacco wringer and spreader. Combined.....	A. U. Drayer.....	365,803	July 5	64	19	40	14
Toboggan.....	W. Blesh.....	375,042	Dec. 20	1272	332	41	1309
Toboggan.....	F. B. Brock.....	367,268	July 26	2088	564	40	419
Toboggan.....	G. H. Chadeayne.....	368,515	Aug. 16	1707	455	40	793
Toboggan.....	C. H. Emerson.....	358,601	Mar. 1	281	66, 67	38	955
Toboggan.....	C. H. Emerson.....	366,083	July 5	452	122	40	85
Toboggan.....	J. R. McLaren, Jr.....	363,157	May 17	1543	408	39	777
Toboggan.....	A. F. Migeon.....	359,736	Mar. 22	1933	490	38	1290
Toboggan.....	J. Pusey.....	359,741	Mar. 22	1942	493	38	1291
Toboggan.....	A. Putnam, Jr.....	357,132	Feb. 1	580	149	38	528
Toboggan.....	A. A. Schroder.....	364,306	June 7	138	39	39	1115
Toboggan.....	W. G. Shepard.....	359,406	Mar. 15	1415	362	38	1179
Toboggan. Coasting.....	C. H. Emerson.....	367,279	July 26	2103	568	40	421
Toboggan. Coasting.....	C. H. Emerson.....	367,280	July 26	2107	{ 568 569 }	{ 40 40 }	{ 422 133 }
Toboggan-slide.....	J. McCullough.....	366,232	July 12	666	180	40	133
Toboggan-slide.....	G. C. Peeling.....	365,535	June 28	1954	508	39	1484
Toboggan-slide.....	L. H. Rogers.....	363,914	May 31	2617	679	39	996
Toboggan. Vehicle.....	J. F. Koch.....	371,770	Oct. 18	1471	380	41	307
Toe-caps and marking vamps. Machine for gaging.....	A. W. Tower.....	372,644	Nov. 1	533	146	41	572
Toe-forming machine. Box.....	J. F. Soule.....	368,025	Aug. 9	1000	269	40	650
Toilet-case.....	A. C. Spencer.....	368,027	Aug. 9	1003	270	40	650
Toilet-case clamp.....	G. Otto.....	366,868	July 19	1535	412	40	306
Toll-collector's register.....	W. T. Loomis.....	355,406	Jan. 4	151	40	38	31
Toll-gate.....	C. W. Green.....	362,954	May 17	1265	335	39	722
Toll-gate.....	C. W. Green.....	362,955	May 17	1269	336	39	723
Tombstones. Securing pictures to.....	S. R. Miller.....	373,243	Nov. 15	1463	385	41	757
Tongs.....	W. H. Mannes.....	370,961	Oct. 4	333	83	41	66
Tongs. Adjustable pipe.....	L. Coes.....	366,379	July 12	859	230	40	169
Tongs. Curling.....	G. T. Culver.....	356,030	Jan. 11	1046	275	38	211
Tongs. Fire.....	H. F. Stinde.....	373,418	Nov. 15	1728	456	41	806
Tongs. Grappling.....	J. E. Ford.....	356,630	Jan. 25	1916	502	38	388
Tongs. Nail and fire.....	S. A. G. Niles.....	367,227	July 26	2032	547	40	408

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Tongs. Tinner's	J. A. Vare	359,110	Mar. 8	1003	258	38	1095
Tongue for mowers and reapers	D. W. Dudderar	364,581	June 7	533	143	39	1189
Tongue-holder for mouth and throat operations	D. Genese	374,122	Nov. 29	2753	740	41	1024
Tongue-support	G. A. Brice	374,583	Dec. 13	601	156	41	1172
Tongue-support	T. E. Burlingame	372,740	Nov. 8	673	184	41	607
Tongue-support	T. T. Cunningham	364,337	June 7	175	48	39	1122
Tongue-support	I. W. Hammon	368,392	Aug. 16	1518	404	40	757
Tongue-support	M. Prechtel	372,235	Oct. 25	2176	559	41	449
Tongue-support	J. B. Riley and H. Radley	355,339	Jan. 4	68	18	38	14
Tongue-support	A. N. Rooks	364,858	June 14	944	249	39	1272
Tongue-support	C. Rupprecht	360,394	Mar. 29	2979	755	38	1486
Tongue-support	C. W. Van De Mark and C. Moore	357,428	Feb. 8	981	258	38	613
Tongue support. Wagon	A. C. Ball	357,892	Feb. 15	1675	436	38	751
Tongue tip. Wagon	H. Dunning	371,880	Oct. 18	1642	424	41	341
Tongue. Vehicle	A. Goodyear	360,009	Mar. 29	2382	602	38	1378
Tongue. Vehicle	T. G. Mandt	355,541	Jan. 4	320	85	38	65
Tongue. Vehicle	H. W. Pratt	356,232	Jan. 18	1343	354	38	272
Tonic. Nutritive	W. Henley	361,358	Apr. 19	1397		39	275
Tool. Combination	W. W. Allen	372,444	Nov. 1	237	66	41	515
Tool. Combination	T. E. Chamberlin	356,925	Feb. 1	252	70	38	468
Tool. Combination	W. J. Hammer	363,331	May 17	1778	466	39	821
Tool. Combination	C. H. Johnson	366,322	July 12	784	212	40	156
Tool. Combination	J. L. Koontz	374,602	Dec. 13	627	164	41	1177
Tool. Combination	D. Lauster	358,862	Mar. 8	666	166	38	1031
Tool. Combination	W. H. Mitchell	372,080	Oct. 25	1950	502	41	405
Tool. Combination	J. W. Ogletree	356,953	Feb. 1	292	81	38	476
Tool. Combination	A. Patterson	361,446	Apr. 19	1511	390	39	297
Tool. Combination	W. W. Sparhawk	355,481	Jan. 4	247	65	38	50
Tool. Combined	J. E. Schwaller	372,932	Nov. 8	975	264	41	659
Tool. Compound	J. C. Stoddard	363,561	May 24	2118	549	39	897
Tool-handle	J. G. Fischer	364,097	May 31	2882	748	39	1048
Tool-handle	J. S. and J. Fray	360,426	Apr. 5	40	11	39	9
Tool-handle	W. H. Hammond	374,063	Nov. 29	2670	717	41	1008
Tool-handle	W. Millspaugh	366,859	July 19	1527	409	40	305
Tool-handle	G. D. Mosher	359,400	Mar. 15	1409	361	38	1177
Tool-handle	A. J. Peavey	368,351	Aug. 16	1465	391	40	747
Tool-handle	C. Willms	370,913	Oct. 4	264	65	41	52
Tool-handle for interchangeable tools	E. Walker	357,429	Feb. 8	982	258	38	613
Tool-holder	T. Barber	364,080	May 31	2856	741	39	1043
Tool-holder	G. N. Clemson and W. Millspaugh	360,854	Apr. 12	651	171	39	128
Tool-holder	P. J. Decker	360,953	Apr. 12	801	206	39	154
Tool-holder	W. Fish and I. Deeter	361,155	Apr. 12	1110	281	39	211
Tool-holder	C. Francis	375,059	Dec. 20	1294	338	41	1313
Tool-holder	A. Rippien	366,508	July 12	1025	279	40	203
Tool-holder	G. H. Warren	373,503	Nov. 22	1863	495	41	844
Tool-holder	B. S. Woodward	355,367	Jan. 4	101	27	38	21
Tool holder. Machine	D. S. Seymour	371,712	Oct. 18	1391	359	41	291
Tool. Impact	J. F. Clement	364,481	June 7	389	106	39	1161
Tool-points from drawing-die plates. Removing broken	W. H. Sawyer	357,860	Feb. 15	1632	424	38	743
Tool. Reloading and resizing	M. Wheeler	358,238	Feb. 22	2165	571	38	847
Tool. Routing	H. F. Stearns	356,429	Jan. 18	1621	425	38	324
Tool. Welt-rounding	E. Dawson	355,758	Jan. 11	639	166 167	38	135
Tools to their handles. Device for securing edged	T. H. Neal	374,369	Dec. 6	286	76	41	1100
Tooth. Artificial	S. T. Beale, Jr.	374,572	Dec. 13	585	153	41	1169
Tooth. Artificial	D. Genese	371,054	Oct. 4	464	116	41	91
Tooth. Artificial	J. J. R. Patrick	373,302	Nov. 15	1548	408	41	773
Tooth. Artificial	L. T. Sheffield	357,044	Feb. 1	424	113	38	500
Tooth. Artificial	E. H. Sherman	373,099	Nov. 15	1231	328	41	717
Tooth. Artificial	D. D. Weisell	364,070	May 31	2845	738	39	1041
Tooth-crown. Artificial	G. A. Colomb	360,206	Mar. 29	2708	684	38	1437
Tooth-crown. Artificial	G. Evans	373,346	Nov. 15	1609	424	41	785
Tooth-crown. Artificial	W. H. Gates	371,053	Oct. 4	463	116	41	91
Tooth-crowns. Instrument for forming	H. W. Watkins	374,382	Dec. 6	301	79	41	1103
Tooth-crowns. Manufacture of artificial	G. Evans	373,347	Nov. 15	1609	425	41	785
Tooth-crowns. Manufacture of artificial	G. Evans	373,348	Nov. 15	1610	425	41	785
Tooth holder. Artificial	J. W. White	362,803	May 10	1050	286	39	676
Tooth-pick	F. D. Nellis	361,775	Apr. 26	1985	517	39	393
Tooth-picks. Machine for polishing and compressing	C. C. Freeman	358,029	Feb. 22	1858	491	38	790
Top. Flying	W. L. Crowson	368,909	Aug. 23	2262	601	40	908
Top. Musical	W. E. Robinson	362,463	May 3	554	153 154	39	581
Torch	G. F. Seavey and I. S. Lauback	365,706	June 28	2206	576	39	1529
Torch	J. L. B. Sibley	362,905	May 10	1193	319	39	702
Torpedo-boat	A. P. S. Miller	364,364	June 7	214	59.60	39	1129
Torpedo-boat. Electric	H. M. Bennett	359,313	Mar. 15	1271	329 330	38	1152
Torpedo. Marine	S. H. Nealy	358,471	Mar. 1	71	18	38	916
Torpedo placer. Railway	J. C. F. and L. K. Rishel	366,029	July 5	388	104	40	73
Torpedo. Railway	J. H. Bevington	375,254	Dec. 20	1564	410	41	1367
Torpedo-signals. Device for operating	F. H. Treacy	369,138	Aug. 30	2584	687	40	980
Torpedo. Submarine	T. Sullivan and E. L. Etheridge	370,570	Sept. 27	1827	486	40	1399
Torpedo-tubes. Safety mechanism for	E. Kaselowsky	361,066	Apr. 12	965	244 245	39	183
Torpedoes. Apparatus for launching	E. Kaselowsky	361,526	Apr. 19	1612	418	39	317
Torpedoes. Automatic brake apparatus for	E. Kaselowsky	361,525	Apr. 19	1611	417	39	317
Torpedoes. Percussion firing device for	J. W. Graydon	356,067	Jan. 11	1102	292	38	222
Torpedoes to rails. Instrument for attaching	A. B. Shaw	373,491	Nov. 22	1839	490	41	840
Towel-arm	C. G. Udell	370,665	Sept. 27	1971	522	40	1427
Towel, hat, and paper rack. Combined	E. L. Scribner	356,380	Jan. 18	1548	407	38	311
Towel or napkin holder	W. C. Dufeu	356,225	Jan. 18	1328	351	38	269
Towel-rack	W. C. Dodge	363,511	May 24	2043	531	39	882
Towel-rack	E. and H. Gangwer	364,814	June 14	882	232	39	1260

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Towing boats, &c., in canals	J. M. Goodwin	371,680	Oct. 18	1334	346	41	279
Toy	C. A. Bailey	361,606	Apr. 19	1732	447	39	339
Toy	A. E. Francis	370,465	Sept. 27	1673	445	40	1372
Toy	C. M. Henn	368,831	Aug. 23	2150	569	40	885
Toy	S. Pinnell	362,397	May 3	453	125	39	563
Toy	A. T. Rousseau	356,731	Jan. 25	2042	536	38	412
Toy	L. Schuetz	370,356	Sept. 20	1498	401	40	1332
Toy	J. Steiner	364,553	June 7	498	134	39	1182
Toy	J. Waterstraw	361,735	Apr. 26	1925	499	39	382
Toy	D. D. Whitney	362,238	May 3	245	70	39	521
Toy and motor for toys and light machinery	J. T. Marean	375,557	Dec. 27	1971	{ 513 514 }	41	1453
Toy. Bell	W. E. T. Merrill	364,535	June 7	478	129	39	1177
Toy blow-gun	E. I. Evatt	370,532	Sept. 27	1774	473	40	1389
Toy bowling-alley	T. Kochka	358,359	Feb. 22	2330	618	38	879
Toy building-block	V. Loos	370,958	Oct. 4	331	82	41	65
Toy cannon	J. J. Loud	375,453	Dec. 27	1830	479	41	1427
Toy carrousel	S. Pinnell	361,835	Apr. 26	2073	539	39	409
Toy catapult	P. D. Horton	368,588	Aug. 23	1806	481	40	821
Toy. Exploding	J. Smith	368,736	Aug. 23	2023	536	40	862
Toy. Flying	J. M. Richard	365,201	June 21	1445	381	39	1374
Toy game	T. R. Thompson	375,513	Nov. 15	1904	498	41	1441
Toy gun	G. Woods	358,526	Mar. 1	174	40	38	934
Toy locomotive	E. J. Colby	373,223	Dec. 27	1435	379	41	753
Toy. Mechanical	C. M. Bartholomew	370,305	Sept. 20	1421	382	40	1318
Toy. Mechanical	C. A. Hotchkiss	368,833	Aug. 23	2151	570	40	886
Toy. Mechanical	D. H. Murphy	360,037	Mar. 29	2429	617	38	1387
Toy. Mechanical	F. J. and A. S. Totten	369,623	Sept. 6	434	121	40	1117
Toy pistol	B. A. Boughton	359,200	Mar. 8	1112	290	38	1116
Toy pistol	T. H. Brown	369,914	Sept. 13	846	224	40	1204
Toy pistol	W. S. Crump	370,378	Sept. 27	1542	413	40	1348
Toy pistol	F. A. Fouts	372,136	Oct. 25	2033	521	41	420
Toy pistol	L. Hill	358,664	Mar. 1	366	87	38	971
Toy pistol	H. O. Lund	372,630	Nov. 1	512	140	41	567
Toy pistol	C. G. Shepard and P. Adams	359,895	Mar. 22	2199	554	38	1337
Toy pistol	C. G. Shepard and P. Adams	372,990	Nov. 8	1062	284	41	675
Toy pistol	G. Wilken	375,589	Dec. 27	2020	525	41	1462
Toy pistol. Repeating	J. M. Linscott	372,476	Nov. 1	283	78	41	524
Toy. Pneumatic	J. Chadwick	362,606	May 10	762	210	39	622
Toy race-course	H. A. Cordray	361,812	Apr. 26	2036	529	39	402
Toy rifle	W. C. Maynard	371,850	Oct. 18	1593	412	41	332
Toy safe	A. C. Rex	358,697	Mar. 1	413	100	38	980
Toy sling	L. B. Myers	363,755	May 24	2397	622	39	949
Toy sling	L. B. Myers	363,756	May 24	2398	622	39	950
Toy spring-gun	F. W. Crandall	355,975	Jan. 11	979	257	38	198
Toy target	F. W. Crandall	355,976	Jan. 11	981	257	38	199
Toy water-motor	F. E. Buddington	362,421	May 3	490	139	39	570
Toys. Automatic link-motion for practical	E. Luchs	367,420	Aug. 2	87	23	40	468
Trace and whiffletree guard	L. A. Lasher	369,064	Aug. 30	2489	661	40	961
Trace-bearer point	E. Armstrong	363,192	May 17	1597	419	39	788
Trace-carrier	A. J. Bates	371,485	Oct. 11	1052	274	41	214
Trace-carrier	G. Elbel	368,998	Aug. 30	2392	636	40	942
Trace-carrier	J. L. Gilman	357,823	Feb. 15	1586	412	38	735
Trace-carrier	W. H. Hayden, Jr.	368,583	Aug. 23	1802	480	40	820
Trace-carrier	A. McNally	371,345	Oct. 11	867	223	41	177
Trace-carrier	W. S. Pritz	360,048	Mar. 29	2454	625	38	1392
Trace-carrier	C. B. Webb	368,742	Aug. 23	2030	538	40	863
Trace-fastener	J. H. Higdon	362,080	May 3	37	11	39	480
Trace-fastener	J. Kitzmiller	366,589	July 12	1150	308	40	228
Trace-fastener	S. M. Stevenson	373,251	Nov. 15	1470	388	41	759
Trace-fastening	R. Terry	375,226	Dec. 20	1527	401	41	1360
Trace-holder	E. A. Brown	371,874	Oct. 18	1629	420	41	339
Trace-holder	A. H. Eiseman	355,600	Jan. 4	395	107	38	79
Trace-holder	A. H. Eiseman. (Reissue)	10,870	Oct. 4	608	156	41	121
Track-bolting machine	F. W. Kimball and T. Appleton	370,147	Sept. 20	1211	{ 321 322 }	40	1277
Track-cleaner	T. A. Fraser	369,986	Sept. 13	963	{ 254 255 }	40	1224
Track-clearer	J. M. Christopher	371,032	Oct. 4	434	109	41	86
Track-clearer	A. G. Eberhart	366,767	July 19	1402	375	40	282
Track-clearer	G. Nevens	370,555	Sept. 27	1807	{ 480 481 }	40	1396
Track-crossing. Spring	F. J. Hoyt	371,587	Oct. 18	1203	314	41	252
Track for use in transport work	A. F. Westerlund	358,517	Mar. 1	138	35	38	929
Track-gage	C. C. Chandler and C. E. Briggs	371,303	Oct. 11	804	205	41	165
Track-gage. Automatic	D. Willard	365,113	June 21	1327	352	39	1351
Track-jack	P. Larkin	373,744	Nov. 22	2210	591	41	913
Track-laying apparatus	B. J. Pleasance	360,817	Apr. 5	591	155	39	111
Track-raiser	J. B. Latschaw	362,163	May 3	154	45	39	503
Track-sweepers. Broom-head for	P. Petrie	365,628	June 28	2091	545	39	1509
Traction-engine	M. A. Chamberlain	357,978	Feb. 15	1797	471	38	774
Traction-engine	G. T. Glover	360,584	Apr. 5	278	68	39	53
Traction-engine	M. E. Hershey	367,912	Aug. 9	838	{ 225 226 227 }	40	620
Traction-engine	S. E. Jarvis	372,022	Oct. 25	1841	477	41	387
Traction-engine	F. F. Landis	355,939	Jan. 11	924	241	38	187
Traction-engine	F. F. Landis	366,226	July 12	651	177	40	131
Traction-engine	F. F. Landis	368,772	Aug. 23	2069	548	40	870
Traction-engine	W. L. Leland	355,940	Jan. 11	925	{ 241 242 }	38	188
Traction-engine	M. W. Peters	363,415	May 24	1892	498	39	852
Traction-engine	J. Price	363,966	May 31	2710	{ 702 703 }	39	1013

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Traction-engine.....	C. H. Roberts.....	357,036	Feb. 1	415	{ 110 111 }	{ 38 38 }	499
Traction-engine.....	W. A. Shadd.....	355,891	Jan. 11	843	222	38	171
Traction-engine driving-gear.....	F. M. Walker.....	357,431	Feb. 8	984	259	38	613
Traction-engines. Device for guiding.....	G. A. and J. E. Klotz.....	363,246	May 17	1660	436	39	800
Traction-engines. Steering apparatus for.....	J. F. Smith.....	356,265	Jan. 18	1378	365	38	279
Traction-engines. Steering device for.....	L. P. and W. A. Helphinstine.....	364,411	June 7	285	79	39	1142
Traction-wheel.....	F. Beindorf.....	358,532	Mar. 1	179	42	38	935
Traction-wheel.....	J. R. Huxtable.....	371,142	Oct. 4	582	148	41	115
Traction-wheel.....	H. W. Hyde.....	356,472	Jan. 25	1681	440	38	344
Traction-wheel.....	F. F. Landis.....	367,303	July 26	2146	577	40	429
Traction-wheel.....	A. Miller.....	372,426	Nov. 1	212	59	41	510
Traction-wheel.....	J. S. Peacock.....	366,243	July 12	681	{ 184 185 }	{ 40 40 }	136
Traction-wheel.....	C. H. Roberts.....	357,034	Feb. 1	413	110	38	498
Traction-wheel.....	C. H. Roberts.....	357,035	Feb. 1	414	110	38	498
Traction-wheel.....	C. E. Warner.....	363,027	May 17	1371	362	39	742
Traffic. Appliance for handling rapid-transit passenger.....	A. M. Wellington.....	371,866	Oct. 18	1615	417	41	336
Train-order catcher.....	R. J. Mickey.....	365,314	June 21	1609	420	39	1403
Train-switches. Device for operating.....	S. Bell.....	358,325	Feb. 22	2283	602	38	870
Trammel.....	A. Heiron.....	365,181	June 21	1421	374	39	1368
Trammel-point.....	J. A. Traut.....	365,031	June 14	1195	315	39	1317
Tramway and car.....	M. C. Campbell.....	373,439	Nov. 22	1757	466	41	824
Tramway-switch adjuster.....	J. L. Boyden.....	371,247	Oct. 11	728	186	41	151
Tramways. Suspension-wheel for wire-cable.....	R. Prentice.....	364,669	June 14	643	173	39	1217
Transfer-roller.....	G. H. Arthur.....	367,737	Aug. 2	584	159	40	561
Transfer-sheet.....	W. Jones.....	369,795	Sept. 13	659	.....	40	1168
Transfer table and dock.....	C. C. Burton.....	363,114	May 17	1489	{ 393 394 }	{ 39 39 }	765
Transit-instrument.....	F. J. Miller.....	360,321	Mar. 29	2870	{ 730 731 }	{ 38 38 }	1469
Transit. Surveyor's.....	C. F. Richardson.....	368,308	Aug. 16	1413	373	40	736
Transmitter.....	R. W. Whitney and F. Pultz.....	374,439	Dec. 6	383	100	41	1119
Transom.....	J. C. Brown.....	363,984	May 31	2736	709	39	1018
Transom-lifter.....	P. Bradford.....	368,452	Aug. 16	1619	432	40	777
Transom-lifter.....	W. W. Neuer.....	355,783	Jan. 11	675	176	38	141
Transom-lifter.....	E. Payson.....	355,949	Jan. 11	936	244	38	190
Transom-lifter.....	C. E. Steller.....	358,579	Mar. 1	250	58	38	950
Transom-lifter.....	L. T. Walker.....	356,970	Feb. 1	318	86	38	481
Transom-lifter.....	G. W. Wright.....	369,626	Sept. 6	437	122	40	1118
Transom-ventilator.....	J. P. Tierney.....	358,089	Feb. 22	1954	516	38	808
Transoms, &c. Pivotal support for.....	W. P. Davis.....	375,051	Dec. 20	1285	335	41	1311
Transoms, sashes, &c. Pivot for.....	F. D. Paradise.....	373,413	Nov. 15	1720	455	41	805
Transparency.....	J. Jacobson.....	369,059	Aug. 30	2483	659	40	960
Transparency. Ornamental.....	G. Bassett.....	363,356	May 24	1812	476	39	838
Transplanter.....	J. B. Johnson.....	371,072	Oct. 4	485	121	41	96
Transplanter.....	G. L. Silsby.....	362,465	May 3	557	154	39	581
Transplanter.....	F. E. Smith.....	374,092	Nov. 29	2716	729	41	1018
Transplanter for tobacco and other plants.....	D. Clow.....	371,426	Oct. 11	981	256	41	199
Transplanting trees. Device for.....	C. D. Harsin.....	357,197	Feb. 8	678	175	38	555
Trap:							
See Animal-trap. Mole-trap.							
Ant-trap. Mouse and rat trap.							
Ball-trap. Rat-trap.							
Feed-water trap. Sediment-trap.							
Fish-trap. Sewer-trap.							
Fish or game trap. Sewer and waste pipe							
Fly-trap. trap.							
Fountain-trap. Sewer gas-trap.							
Game-trap. Steam-trap.							
Hog-trap. Target-trap.							
Insect-trap. Tile-trap.							
Lobster-trap.							
Trap.....	C. J. Erikson.....	365,058	June 21	1244	327	39	1337
Trap.....	H. C. Weeden.....	360,128	Mar. 29	2596	657	38	1416
Trap for basins and sinks.....	P. White.....	357,804	Feb. 15	1556	405	38	729
Trap for wash-basins.....	J. P. Putnam.....	360,480	Apr. 5	116	29	39	23
Trap-lock.....	J. F. Mehren.....	372,923	Nov. 8	965	262	41	657
Trap-lock.....	J. F. Wollensak.....	369,901	Sept. 13	829	220	40	1201
Trap-lock.....	J. F. Wollensak.....	372,834	Nov. 8	839	{ 223 224 }	{ 41 41 }	634
Traveling-bag.....	I. Heller.....	362,581	May 10	718	200	39	615
Traveling-bag.....	M. Isidor and R. Flocke.....	363,748	May 24	2386	619	39	947
Traveling-bag.....	J. Lichtenstein and R. Flocke.....	363,654	May 24	2249	583	39	922
Traveling-bag.....	E. Lyon.....	359,219	Mar. 8	1145	297	38	1121
Traveling-bag.....	T. R. Weidemann.....	363,029	May 17	1373	363	39	743
Traveling-bag, valise, &c.....	F. S. Joline.....	369,794	Sept. 13	658	179	40	1168
Tray and case. Carrying.....	C. A. Andrews and R. L. Ramsdell.....	375,437	Dec. 27	1808	473	41	1422
Tray. Child's.....	T. Cousins.....	356,572	Jan. 25	1827	478	38	371
Tray. Child's.....	S. A. Field.....	368,389	Aug. 16	1514	403	40	757
Tray. Gathering.....	J. Benedict.....	375,596	Dec. 27	2028	527	41	1464
Tray-machine.....	W. Roberts.....	369,078	Aug. 30	2512	{ 666 667 }	{ 40 40 }	965
Tread-power.....	G. W. Evans.....	371,830	Oct. 18	1558	{ 402 403 }	{ 41 41 }	325
Treadle.....	W. E. Sleight and G. J. Bremer.....	371,385	Oct. 11	924	238	41	187
Treadle attachment.....	J. S. Robinson.....	362,539	May 10	662	186	39	605
Treadle-movement.....	A. M. Fenner.....	363,289	May 17	1719	450	39	811
Treadles. Hand attachment for.....	E. H. Craige.....	369,235	Aug. 30	2704	718	40	1004
Tree:							
See Boot or shoe tree. Saddle-tree.							
Doubletree.							
Tree-box.....	J. Donaldson.....	361,351	Apr. 19	1379	355	39	272

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tree-box. Metallic.....	W. F. Benedict.....	374,170	Dec. 6	16	4	41	1049
Tree cover and fumigator.....	J. P. Culver.....	367,134	July 26	1894	513	40	382
Tree-digger. Nursery.....	D. Feigly.....	370,690	Sept. 27	2012	535	40	1434
Tree-prop.....	H. B. Cole.....	358,017	Feb. 22	1845	488	38	788
Tree-protector.....	J. O. Brown.....	375,693	Dec. 27	2175	566	41	1490
Tree-protector.....	E. Rowe and R. D. Hetrick.....	369,616	Sept. 6	423	118	40	1115
Tree-protector.....	F. R. Woodward.....	356,389	Jan. 18	1561	411	38	313
Tree-puller.....	W. Niehoff.....	359,884	Mar. 22	2179	549	38	1333
Trees. Machine for uprooting.....	J. F. Foulke.....	372,527	Nov. 1	349	96	41	536
Trellis.....	C. Schwend.....	359,547	Mar. 15	1629	417	38	1219
Trellis. Grape.....	W. Norris.....	362,225	May 3	232	67	39	518
Trestle.....	M. S. Like.....	356,844	Feb. 1	142	39	38	449
Trestle.....	G. W. Zeigler.....	374,107	Nov. 29	2734	734	41	1021
Trestle. Extension.....	R. M. Walker.....	357,879	Feb. 15	1658	431	38	747
Trestle-tree.....	W. L. Bradford.....	357,548	Feb. 8	1165	306	38	648
Trestling or scaffolding.....	G. W. Zeigler.....	362,914	May 10	1202	{ 321 } 322	{ 39 } 38	704
Tricycle.....	C. C. Anderson.....	359,000	Mar. 8	862	218	38	1067
Tricycle.....	J. Bate.....	364,466	June 7	370	101	39	1158
Tricycle.....	F. J. Bayer.....	372,106	Oct. 25	1980	509	41	411
Tricycle.....	S. C. Ellis.....	361,581	Apr. 19	1694	438	39	331
Tricycle.....	H. T. Frie.....	373,282	Nov. 15	1514	400	41	767
Tricycle.....	P. Gendron.....	365,377	June 28	1722	445	39	1437
Tricycle.....	H. La Casse.....	372,031	Oct. 25	1868	{ 481 } 482	{ 41 } 41	391
Tricycle.....	A. E. McEntee.....	375,176	Dec. 20	1465	382	41	1346
Tricycle.....	T. O'Brien.....	372,429	Nov. 1	216	60	41	511
Tricycle.....	B. M. Pearne.....	368,607	Aug. 23	1834	490	40	826
Tricycle.....	C. M. Reed and W. C. Frazee.....	361,024	Apr. 12	912	230	39	173
Tricycle.....	H. Thiessen.....	364,782	June 14	833	219	39	1251
Tricycle.....	G. E. Whitmore.....	356,388	Jan. 18	1560	410	38	313
Tricycle. Steam.....	L. D. Copeland.....	360,760	Apr. 5	513	{ 132 } 133	{ 39 } 39	96
Trier.....	W. C. Layer.....	368,344	Aug. 16	1458	389	40	745
Trimmer:							
See Harness-trimmer. Lamp-trimmer.							
Hedge-trimmer. Saw-trimmer.							
Hog-nose trimmer. Wick-trimmer.							
Hoof-trimmer.							
Trimmer or shears.....	S. Rue.....	359,890	Mar. 22	2186	551	38	1335
Trimming-machine.....	H. F. Billmeyer.....	373,960	Nov. 29	2521	678	41	978
Tripod.....	F. Reinecke.....	356,891	Feb. 1	211	59	38	460
Tripod.....	F. S. Ruttman and G. Singer.....	368,426	Aug. 16	1574	420	40	768
Tripod-head.....	W. D. Johnson.....	362,384	May 3	435	121	39	559
Tripod-joint.....	F. E. Wright.....	357,299	Feb. 8	811	210	38	580
Tripod stand.....	T. Hipwell.....	366,833	July 19	1488	397	40	297
Trolley-track.....	L. Coburn.....	365,240	June 21	1498	394	39	1384
Trough:							
See Eaves-trough. Hog-trough.							
Feed-trough. Slag-trough.							
Trousers.....	B. Goodman.....	374,957	Dec. 20	1156	302	41	1289
Trousers.....	I. N. Klein.....	362,015	Apr. 26	2344	611	39	457
Trousers.....	B. Lindauer.....	367,719	Aug. 2	560	153	40	557
Trousers.....	M. N. Sevier.....	373,313	Nov. 15	1560	413	41	776
Trousers.....	A. J. Shriver.....	366,516	July 12	1038	282	40	206
Trousers and pattern therefor.....	W. W. Crisp.....	366,155	July 5	548	147	40	103
Trousers-holder.....	E. Hauck.....	364,346	June 7	190	53	39	1125
Trousers-jack.....	R. Sanford.....	358,128	Feb. 22	2017	531	38	818
Trousers. Riding.....	R. L. Wood and W. W. Crisp.....	373,628	Nov. 22	2053	{ 546 } 547	{ 41 } 41	880
Trousers-stretcher.....	C. Brinton.....	360,412	Apr. 5	13	4	39	5
Trousers-stretcher.....	R. Crommer.....	362,495	May 10	599	169	39	594
Trousers-stretcher.....	J. B. Hale.....	364,012	May 31	2770	718	39	1026
Trousers-stretcher.....	F. McIlvenna and J. G. Rollason. (Reissue.)	10,808	Feb. 22	2414	642	38	895
Trousers-stretcher.....	C. E. Ray.....	356,960	Feb. 1	300	83	38	477
Trousers-stretcher.....	W. A. and H. S. Rollins.....	375,100	Dec. 20	1361	355	41	1325
Trousers-stretcher.....	G. J. Rupprecht.....	373,379	Nov. 15	1670	443	41	797
Trousers-stretcher.....	E. G. Sim and R. H. Bishop.....	367,559	Aug. 2	295	84	40	507
Trousers-stretcher.....	E. C. Weston.....	355,577	Jan. 4	367	99	38	74
Trousers-stretcher.....	E. N. Winslow.....	373,545	Nov. 22	1934	512	41	857
Trousers-stretcher.....	W. H. Young.....	373,120	Nov. 15	1266	335	41	723
Trowel or scoop.....	A. Bardell.....	356,344	Jan. 18	1504	395	38	303
Truck.....	E. J. Benedict.....	366,554	July 12	1088	294	40	216
Truck.....	J. Coup.....	370,008	Sept. 13	1002	263	40	1230
Truck.....	J. G. Ringer.....	365,942	July 5	267	70	40	51
Truck.....	W. J. Tanner.....	369,215	Aug. 30	2678	712	40	999
Truck.....	C. F. Weber.....	372,646	Nov. 1	535	146	41	573
Truck. Adjustable stove.....	J. A. Hankins.....	360,295	Mar. 29	2842	723	38	1463
Truck and hose-carriage. Combined ladder.....	J. Ferrel.....	360,286	Mar. 29	2834	720	38	1461
Truck and jack. Combined.....	M. W. Forbes.....	368,883	Aug. 23	2221	591	40	901
Truck and running-gear of railway-cars.....	R. T. White.....	362,563	May 10	692	193	39	610
Truck and weighing-scale. Combined.....	W. C. James.....	372,538	Nov. 1	373	101	41	541
Truck and weighing-scale. Combined hand.....	A. A. Armitage.....	366,753	July 19	1385	371	40	279
Truck and weighing-scale. Combined hand.....	W. C. James.....	371,071	Oct. 4	483	121	41	95
Truck attachment. Harvester.....	H. J. Case and C. Young.....	358,835	Mar. 8	614	152	38	1023
Truck. Barrel.....	J. J. George.....	372,137	Oct. 25	2035	521	41	420
Truck. Barrel.....	W. W. Wilson and J. L. Newton.....	375,406	Dec. 27	1765	463	41	1413
Truck. Bucket.....	A. E. Brown.....	369,912	Sept. 13	840	223	40	1203
Truck. Car.....	J. C. Barber.....	370,758	Oct. 4	7	2	41	4
Truck. Car.....	S. A. Bemis.....	372,293	Nov. 1	12	4	41	473
Truck. Car.....	S. A. Bemis.....	373,578	Nov. 22	1980	526	41	865
Truck. Car.....	S. A. Bemis.....	373,635	Nov. 22	2060	{ 549 } 550	{ 41 } 41	881

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Truck. Car.....	F. E. Canda	369,098	Aug. 30	2539	{ 673 674	{ 40	969
Truck. Car.....	T. English.....	372,608	Nov. 1	475	{ 127 128 129	{ 41	559
Truck. Car.....	F. G. Susemihl and L. K. Jewett.....	361,845	Apr. 26	2091	543	39	413
Truck. Car.....	F. G. Susemihl and L. K. Jewett.....	361,846	Apr. 26	2093	544	39	413
Truck-car.....	H. C. Hodges	362,446	May 3	525	{ 146 147	{ 39	576
Truck. Excavating railway.....	F. Nearing	368,847	Aug. 23	2176	577	40	891
Truck. Fire.....	O. R. Olsen	361,443	Apr. 19	1508	389	39	296
Truck for capstans	H. T. White	358,906	Mar. 8	735	182	38	1044
Truck for electric railways. Guide.....	B. F. Hamilton	365,339	June 21	1650	431	39	1411
Truck for electric railways. Swivel.....	B. F. Hamilton	365,340	June 21	1651	431	39	1412
Truck for handling pipe.....	O. Heilman.....	372,976	Nov. 8	1043	280	41	671
Truck for street-cars. Motor.....	H. Skinner.....	371,383	Oct. 11	921	237	41	187
Truck. Hand.....	J. Ash.....	363,940	May 31	2662	691	39	1004
Truck. Hand.....	C. F. Beaman.....	373,795	Nov. 22	2286	612	41	925
Truck. Hand.....	W. C. James.....	356,473	Jan. 25	1685	440	38	344
Truck. Hand.....	H. E. Spaulding	363,693	May 24	2311	600	39	933
Truck. Hand.....	D. S. Wing	361,913	Apr. 26	2190	567	39	431
Truck. Hand.....	W. C. Wren	374,161	Nov. 29	2807	753	41	1034
Truck. Harvester.....	W. N. Whiteley.....	368,437	Aug. 16	1593	425	40	771
Truck. Locomotive.....	J. Johnston.....	374,305	Dec. 6	193	51	41	1082
Truck. Railway-car.....	H. R. Nash	367,656	Aug. 2	444	123	40	535
Truck. Railway transfer.....	C. D. Richard and C. E. Webber.....	372,643	Nov. 1	532	{ 145 146	{ 41	572
Truck. Rock and earth	C. A. Anderson.....	361,477	Apr. 19	1551	402	39	305
Truck. Stairway.....	J. W. Wetmore.....	368,263	Aug. 16	1353	357	40	724
Truck. Stove.....	M. V. Clute	371,924	Oct. 25	1703	441	41	362
Trucks. Apparatus for putting together and drilling locomotive and car.....	S. M. Vauclain	355,901	Jan. 11	864	226	38	175
Trucks. Safety-guard for railway.....	F. S. Tull.....	369,416	Sept. 6	145	42	40	1060
Trucks. Shoe attachment for car.....	E. H. Newman	373,247	Nov. 15	1466	387	41	758
Trunk.....	G. I. Ap Roberts	362,868	May 10	1132	304	39	690
Trunk.....	M. Bray	358,012	Feb. 22	1840	487	38	787
Trunk.....	J. H. Farel.....	358,737	Mar. 1	466	114	38	990
Trunk.....	S. Hermann	373,456	Nov. 22	1782	474	41	830
Trunk and bureau. Combined	K. W. Eubank.....	369,000	Aug. 30	2395	636	40	942
Trunk attachment.....	J. E. McDowell and T. Medford.....	360,606	Apr. 5	309	76	39	59
Trunk-corner.....	F. Garcia.....	373,232	Nov. 15	1453	382	41	755
Trunk-corner-protector.....	A. A. Oestreicher.....	355,946	Jan. 11	937	243	38	189
Trunk-fastener.....	T. L. Rivers	356,051	Jan. 11	1077	283	38	217
Trunk-fastener.....	G. D. Spielman	357,240	Feb. 8	731	190	38	565
Trunk-fastening.....	A. O. Buckius	373,879	Nov. 29	2407	647	41	957
Trunk-harness.....	C. H. Van Orden	369,139	Aug. 30	2585	687	40	980
Trunk-lid lifter and cup or hasp plate for trunk-locks.....	F. W. Mix	365,533	June 28	1952	508	39	1483
Trunk-lock.....	A. H. S. Davis.....	373,176	Nov. 15	1358	359	41	738
Trunk-lock.....	C. A. Taylor.....	373,863	Nov. 29	2384	641	41	953
Trunk or box fastener.....	F. W. Mix	355,333	Jan. 4	56	15	38	12
Trunk or case.....	G. Crouch	371,554	Oct. 18	1156	301	41	243
Trunk-strap.....	G. A. Berry.....	370,921	Oct. 4	277	68	41	55
Trunk-strap.....	R. H. Douglas	356,528	Jan. 25	1759	458	38	358
Trunk. Traveling.....	C. D. Hess.....	367,979	Aug. 9	937	{ 253 254	{ 40	638
Trunks from chemically-treated fiber. Manufacture of.....	H. W. Morrow.....	361,885	Apr. 26	2154	558	39	424
Truss.....	G. W. Bible	373,045	Nov. 15	1157	310	41	701
Truss.....	C. Cluthe	364,482	June 7	392	106	39	1162
Truss.....	A. P. Davis.....	372,014	Oct. 25	1829	474	41	385
Truss.....	J. Y. Egan.....	367,799	Aug. 9	682	185	40	588
Truss.....	W. Elstun	373,927	Nov. 29	2472	664	41	969
Truss.....	R. H. Fargue	371,441	Oct. 11	1000	260	41	203
Truss.....	J. G. Holland	364,590	June 7	546	{ 146 147	{ 39	1191
Truss.....	F. H. Horick and C. F. Storrs	370,023	Sept. 13	1025	270	40	1235
Truss.....	G. Reno.....	369,471	Sept. 6	219	62	40	1074
Truss.....	R. Rice	372,567	Nov. 1	416	112	41	550
Truss.....	T. Simmons.....	374,091	Nov. 29	2715	728	41	1018
Truss.....	J. O. Stephens	369,566	Sept. 6	349	97	40	1101
Truss.....	G. N. Tibbles.....	364,738	June 14	742	197	39	1236
Truss.....	G. Wilkinson	365,660	June 28	2141	559	39	1518
Truss. Abdominal.....	F. and T. H. Williams.....	368,040	Aug. 9	1019	275	40	654
Truss. Barn.....	I. R. McCormick	368,844	Aug. 23	2171	{ 575 576	{ 40	890
Tub:							
See Bath-tub. Mash-tub.							
Bath and wash tub. Wash-tub.							
Butter-tub. Wooden tub.							
Tub bottom. Mash.....	M. Gottfried.....	371,261	Oct. 11	749	192	41	155
Tub-fastener.....	S. E. Moore.....	360,390	Mar. 29	2975	754	38	1486
Tub-fastener.....	F. A. Stegner.....	364,447	June 7	341	94	39	1153
Tubs and casks. Machine for packing materials in.....	L. Heyligenstaedt.....	367,142	July 26	1910	516	40	384
Tubs. Device for corrugating wash.....	M. F. Pelletier and J. Kroc.....	370,491	Sept. 27	1716	455	40	1379
Tube:							
See Bent tube. Grain-drill tube.							
Bobbin or cop-tube. Insulating-tube.							
Boiler-tube. Musical tube.							
Carriage speaking-tube. Pasteboard mailing-tube.							
Tube. Pneumatic dispatch-tube.							
Draft-tube. Prospecting or boring tube.							
Drill-tube. tube.							
Flexible tube. Speaking-tube.							
Grain and fertilizer drill tube. Wick-tube.							
Tube.....	J. H. Kelly and C. H. Broad.....	369,012	Aug. 30	2410	640	40	946

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tube-cleaner.....	G. M. Anson.....	355,806	Jan. 11	710	185	38	147
Tube-cleaner.....	I. A. Woodbury.....	361,389	Apr. 19	1438	371	39	283
Tube-coupling.....	A. Reese.....	360,172	Mar. 29	2662	672	38	1428
Tube-coupling.....	G. N. Riley.....	374,557	Dec. 6	563	148	41	1155
Tube-cutter.....	O. F. Martin.....	360,709	Apr. 5	448	114	39	83
Tube-cutter and ratchet-drill. Combined.....	O. Kalkhoff.....	374,969	Dec. 20	1173	306	41	1291
Tube-drawing tool.....	C. P. Grout.....	355,606	Jan. 4	400	109	38	80
Tube-expander.....	J. K. Babcock and J. P. Champion.....	375,248	Dec. 20	1555	408	41	1365
Tube-expander.....	T. Beverly.....	363,980	May 31	2732	708	39	1018
Tube-expander.....	J. P. Champion.....	375,259	Dec. 20	1569	411	41	1367
Tube-expander.....	C. E. Emery.....	355,644	Jan. 4	473	{ 126 127 }	{ 38 38 }	93
Tube-expander.....	J. A. Giles.....	361,503	Apr. 19	1582	410	39	311
Tube-expander.....	J. A. Giles.....	361,504	Apr. 19	1583	410	39	311
Tube-expander.....	C. Kane.....	370,876	Oct. 4	185	49	41	37
Tube-expander.....	J. Nebergall and C. E. Schofield.....	372,081	Oct. 25	1951	503	41	405
Tube-expander.....	L. Verbeeck and E. De Raet.....	372,995	Nov. 8	1072	286	41	676
Tube-welding ball.....	S. J. Adams.....	361,565	Apr. 19	1667	432	39	327
Tube-welding ball.....	S. J. Adams.....	361,566	Apr. 19	1671	432	39	327
Tube-welding ball.....	S. J. Adams.....	361,567	Apr. 19	1674	433	39	328
Tube-welding ball.....	S. J. Adams.....	361,568	Apr. 19	1676	433	39	328
Tube-welding ball.....	S. J. Adams.....	361,569	Apr. 19	1677	433	39	328
Tubes and pipes. Bending.....	J. H. Kelly and C. H. Broad.....	369,013	Aug. 30	2411	640	40	946
Tubes and rods. Rolls for reducing and tapering.....	M. L. Ritchie.....	374,703	Dec. 13	763	200	41	1205
Tubes and vials. Case for displaying.....	C. C. Hudson.....	372,222	Oct. 25	2155	{ 552 553 }	{ 41 41 }	444
Tubes. Apparatus for bending.....	E. P. Follett.....	360,288	Mar. 29	2836	721	38	1462
Tubes. Composite ingot for producing seamless.....	E. Wheeler.....	368,175	Aug. 9	1205	322	40	688
Tubes. Device for bending.....	J. H. Kelly and C. H. Broad.....	369,011	Aug. 30	2409	{ 639 640 }	{ 40 40 }	945
Tubes. Device for ornamenting.....	T. Lindberg.....	359,729	Mar. 22	1925	488	38	1289
Tubes. Device for reducing the ends of.....	E. O. Daniels.....	365,053	June 21	1235	325	39	1335
Tubes. Device for trimming the ends of.....	E. Querol y Delgado.....	356,957	Feb. 1	296	82	38	477
Tubes. Die for forming bent.....	A. Taplin. (Reissue).....	10,858	Aug. 9	1214	{ 324 325 }	{ 40 40 }	690
Tubes. Die for reducing.....	W. Lorenz.....	371,957	Oct. 25	1749	453	41	371
Tubes for drawing. Preparing.....	W. Allderice.....	359,703	Mar. 22	1889	479	38	1283
Tubes. Forming joints in sheet-metal.....	E. O. Daniels.....	360,663	Apr. 5	385	98	39	73
Tubes, &c. Machine for cutting and screw-threading.....	A. Saunders.....	372,490	Nov. 1	298	82, 83	41	527
Tubes. Machine for drawing metal.....	L. F. Smith.....	359,898	Mar. 22	2202	554	38	1337
Tubes. Machine for forming.....	C. P. Higgins.....	358,552	Mar. 1	208	48	38	942
Tubes. Machine for making spirally-jointed metal.....	W. B. Alden.....	375,435	Dec. 27	1805	{ 472 473 }	{ 41 41 }	1421
Tubes. Machinery for the manufacture of.....	F. Huggins.....	366,002	July 5	345	92, 93	40	66
Tubes. Making.....	W. B. Alden.....	367,494	Aug. 2	205	57	40	491
Tubes. Making metallic.....	A. J. Upham.....	370,832	Oct. 4	109	30	41	23
Tubes. Manufacture of bent.....	A. Taplin. (Reissue).....	10,857	Aug. 9	1213	324	40	689
Tubes. Manufacture of metallic.....	J. L. Bogert.....	375,043	Dec. 20	1273	332	41	1309
Tubes. Manufacture of seamless.....	M. Mannesmann.....	361,954	Apr. 26	2251	{ 586 587 }	{ 39 39 }	442
Tubes. Manufacture of seamless.....	M. Mannesmann.....	361,959	Apr. 26	2260	588	39	443
Tubes. Manufacture of seamless.....	M. Mannesmann.....	361,960	Apr. 26	2262	589	39	443
Tubes. Manufacture of seamless.....	M. Mannesmann.....	361,961	Apr. 26	2263	589	39	443
Tubes. Manufacture of seamless.....	M. Mannesmann.....	361,962	Apr. 26	2265	589	39	444
Tubes. Manufacture of seamless.....	M. Mannesmann.....	361,963	Apr. 26	2267	590	39	444
Tubes. Manufacture of seamless.....	R. Mannesmann.....	361,955	Apr. 26	2254	587	39	442
Tubes. Manufacture of seamless.....	R. Mannesmann.....	361,956	Apr. 26	2256	587	39	442
Tubes. Manufacture of seamless.....	R. Mannesmann.....	361,957	Apr. 26	2257	{ 587 588 }	{ 39 39 }	443
Tubes. Manufacture of seamless.....	R. Mannesmann.....	361,958	Apr. 26	2259	588	39	443
Tubes. Method of and machine for closing the ends of.....	J. P. Kennedy.....	368,837	Aug. 23	2157	572	40	887
Tubes. Screw-cap for collapsible.....	H. M. Wirz.....	359,305	Mar. 15	1264	327	38	1150
Tubes. Welding the ends of metal.....	H. Jordan.....	365,819	July 5	81	23	40	17
Tubing-catcher.....	F. Mixer.....	370,744	Sept. 27	2093	555	40	1449
Tubing. Corrugated.....	R. F. Pratt and C. D. Wainwright.....	365,630	June 28	2094	545	39	1510
Tubing. Device for welding.....	J. H. Flagler.....	371,833	Oct. 18	1563	404	41	326
Tubing. Device for welding.....	J. H. Flagler.....	371,834	Oct. 18	1565	404	41	326
Tubing. Making corrugated.....	S. Fox.....	365,466	June 28	1846	479	39	1461
Tubing. Manufacture of.....	H. C. Bradeen.....	368,059	Aug. 9	1047	281	40	658
Tubular boiler.....	H. N., I. A., and O. Merwin.....	366,234	July 12	668	181	40	134
Tubular expansion-boiler.....	J. W. Walters.....	372,346	Nov. 1	91	27	41	488
Tug attachment. Hame.....	C. C. Schwaner.....	364,048	May 31	2818	731	39	1035
Tug attachment. Hame.....	W. S. Sherman.....	363,009	May 17	1343	355	39	737
Tug-coupling.....	E. A. Rouse and H. Summers.....	355,474	Jan. 4	238	63	38	48
Tug coupling. Hame.....	W. S. Hawley.....	368,919	Aug. 23	2278	606	40	911
Tug-fastener.....	D. T. Chambers.....	357,549	Feb. 8	1166	306	38	648
Tug-fastener for single-trees.....	D. T. Chambers.....	357,368	Feb. 8	895	236	38	596
Tug. Hame.....	J. B. Altman.....	374,648	Dec. 13	687	181	41	1189
Tug. Hame.....	C. C. Bauder.....	356,612	Jan. 25	1889	496	38	383
Tug. Hame.....	T. F. Crane.....	355,389	Jan. 4	128	34	38	27
Tug. Hame.....	S. B. Davis.....	356,102	Jan. 18	1166	309	38	239
Tug. Hame.....	L. G. Gustavel, Jr.....	367,712	Aug. 2	550	150	40	554
Tug. Hame.....	R. Hassel.....	374,962	Dec. 20	1162	303	41	1289
Tug. Hame.....	M. E. Lasher and J. V. Forrester.....	359,871	Mar. 22	2160	545	38	1330
Tug. Hame.....	G. Schmidt.....	367,066	July 26	1792	483	40	363
Tug loop. Hame.....	A. L. Massey.....	366,593	July 12	1157	310	40	229
Tug. Shaft.....	G. V. Avery.....	360,752	Apr. 5	503	129	39	94
Tug. Shaft.....	S. E. Harsh.....	372,973	Nov. 8	1040	279	41	670
Tug. Shaft.....	W. E. Moore.....	373,087	Nov. 15	1218	325	41	714
Tug. Thill.....	T. M. Pantall.....	358,785	Mar. 1	533	130	38	1003
Tug. Thill.....	P. Ransom.....	371,218	Oct. 11	688	177	41	144
Tug. Thill.....	D. Singletary.....	370,899	Oct. 4	233	59	41	45
Tumbler cover. Jelly.....	G. W. Fry.....	358,114	Feb. 22	1992	525	38	814

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tuning-fork.....	D. W. Segrove.....	375,654	Dec. 27	2114	549	41	1479
Tuning-peg retainer.....	F. B. Converse.....	366,461	July 12	950	259	40	189
Tuning-pin setter.....	H. E. Finney.....	360,871	Apr. 12	679	178	39	133
Turbine wheel.....	A. D. Cole.....	364,804	June 14	867	227	39	1257
Turn-buckle blank.....	G. E. Whitehead.....	375,687	Dec. 27	2165	563	41	1488
Turn-table.....	A. Ayres.....	360,791	Apr. 5	553	144	39	104
Turn-table.....	F. H. Saylor.....	356,162	Jan. 18	1248	330	38	254
Turn-table guide.....	A. V. du Pont.....	374,525	Dec. 6	509	133	41	1144
Turning irregular forms. Machine for.....	W. Hoopes.....	372,796	Nov. 8	775	{ 208 209 210 }	{ 41 }	623
Turning irregular forms. Machine for.....	C. Kehr.....	372,806	Nov. 8	801	{ 214 215 }	{ 41 }	628
Turning spirals. Machine for.....	H. T. Weirbach.....	358,176	Feb. 22	2087	550	38	832
Tuyere.....	C. Gregory.....	363,819	May 31	2489	646	39	973
Tuyere.....	P. Simon.....	369,746	Sept. 13	590	160	40	1155
Tuyere indicator. Furnace.....	T. Shaw.....	364,050	May 31	2820	731	39	1036
Tuyere-iron.....	B. Lister.....	372,689	Nov. 8	601	163	41	594
Twine.....	E. H. Haskell.....	367,295	July 26	2139	575	40	427
Twine and bag holder.....	L. F. C., and J. E. Dodson.....	356,752	Feb. 1	17	6	38	426
Twine-cutter.....	T. W. Burt.....	358,143	Feb. 22	2036	536	38	822
Twine-cutter.....	F. P. Hoeneman.....	366,102	July 5	475	129	40	89
Twine holder and lifter.....	T. Porter.....	368,353	Aug. 16	1470	392	40	748
Twine, &c. Machine for making.....	G. W. Price.....	364,371	June 7	223	63	39	1131
Twine-reel.....	J. H. Holbrook.....	360,440	Apr. 5	65	17	39	13
Twisting-machine.....	H. Renard.....	361,544	Apr. 19	1637	424	39	322
Tympanum.....	E. Boulanger.....	355,970	Jan. 11	974	255	38	197
Tympanums. Pitch-indicator for.....	E. Boulanger.....	355,971	Jan. 11	975	{ 255 256 }	{ 38 }	197
Type and lead.....	J. R. Cummings.....	359,960	Mar. 22	2299	578	38	1356
Type and method of producing the same. Die for making wood.....	G. C. Setchell.....	375,008	Dec. 20	1225	320	41	1301
Type-channel.....	A. A. Low.....	360,357	Mar. 29	2923	743	38	1477
Type-containing channel.....	L. K. Johnson.....	369,720	Sept. 13	563	{ 153 154 }	{ 40 }	1151
Type-containing channel.....	A. A. Low.....	360,104	Mar. 29	2550	649	38	1409
Type-containing channel.....	A. A. Low.....	360,355	Mar. 29	2918	743	38	1477
Type-containing channel.....	A. A. Low.....	360,356	Mar. 29	2921	743	38	1477
Type-containing channel.....	A. A. Low.....	360,358	Mar. 29	2926	744	38	1477
Type-distributing apparatus.....	L. K. Johnson and A. A. Low.....	356,840	Feb. 1	132	36, 37	38	447
Type-distributing apparatus.....	L. K. Johnson and A. A. Low.....	360,096	Mar. 29	2527	{ 643 644 }	{ 38 }	1405
Type-distributing apparatus.....	L. K. Johnson and A. A. Low.....	360,097	Mar. 29	2534	{ 645 646 }	{ 38 }	1406
Type-distributing apparatus.....	A. A. Low.....	363,836	May 31	2514	653	39	978
Type-distributing apparatus.....	A. A. Low.....	372,076	Oct. 25	1939	{ 500 501 }	{ 41 }	403
Type form.....	T. Lanston.....	364,524	June 7	443	119	39	1172
Type forming and composing machine.....	T. Lanston.....	364,525	June 7	444	{ 119 120 121 122 123 124 125 }	{ 39 }	1172
Type. Manufacture of.....	E. D. Laraway and E. Bridge.....	355,768	Jan. 11	650	170	38	137
Type-mold.....	J. M. Conner.....	356,749	Feb. 1	14	5	38	425
Type. Producing dies for use in making wood.....	W. H. Page.....	374,993	Dec. 20	1207	314	41	1297
Type. Producing justified lines of.....	T. Lanston.....	364,521	June 7	439	118	39	1171
Type. Producing justified lines of.....	T. Lanston.....	364,522	June 7	441	119	39	1171
Type. Producing justified lines of.....	T. Lanston.....	364,523	June 7	442	119	39	1171
Type-rubbing machine.....	G. Rettig.....	370,819	Oct. 4	89	24, 25	41	19
Type setting and distributing machine.....	J. Thorne.....	372,186	Oct. 25	2094	{ 537 538 }	{ 41 }	433
Type setting and distributing machine.....	J. Thorne.....	372,187	Oct. 25	2099	{ 539 540 }	{ 41 }	434
Type-setting compartment. Printer's.....	L. K. Johnson and A. A. Low.....	358,041	Feb. 22	1877	{ 496 497 264 265 }	{ 38 }	795
Type-setting machine.....	A. Lagerman.....	362,751	May 10	975	{ 266 267 268 }	{ 39 }	662
Type-writer cabinet.....	F. O. Harter and C. A. Parker.....	360,016	Mar. 29	2398	607	38	1381
Type-writer cabinet.....	F. O. Harter and C. A. Parker.....	363,460	May 24	1957	512	39	864
Type-writer. Electrical.....	J. F. McLaughlin.....	367,650	Aug. 2	431	{ 120 121 }	{ 40 }	533
Type-writers, &c. Attachment for.....	W. McDermott.....	363,903	May 31	2601	676	39	993
Type-writers. Automatic reverse movement and spacing mechanism for electrical and mechanical.....	J. F. McLaughlin.....	369,954	Sept. 13	910	{ 242 243 }	{ 40 }	1214
Type-writers. Copy-holder for.....	C. H. McGurrian.....	365,837	July 5	108	30	40	23
Type-writers. Inking-pad for.....	E. M. Hamilton.....	357,669	Feb. 15	1357	357	38	691
Type-writers. Lever movement for.....	E. M. Hamilton.....	357,668	Feb. 15	1356	357	38	691
Type-writers. Synchronal motor for electrical.....	J. F. McLaughlin.....	368,411	Aug. 16	1549	{ 413 414 }	{ 40 }	763
Type-writers. Transmitter for electrical.....	J. F. McLaughlin.....	363,158	May 17	1544	408	39	777
Type-writers. Word-counter for.....	A. E. Barker.....	362,596	May 10	745	206	39	619
Type-writing machine.....	G. W. Baldrige.....	375,251	Dec. 20	1558	{ 408 409 }	{ 41 }	1365
Type-writing machine.....	E. R. Barron.....	360,133	Mar. 29	2602	660	38	1418
Type-writing machine.....	W. J. Barron.....	361,114	Apr. 12	1031	260	39	197
Type-writing machine.....	V. W. Blanchard.....	373,637	Nov. 22	2063	{ 550 551 }	{ 41 }	882
Type-writing machine.....	A. W. Cash.....	372,516	Nov. 1	334	92, 93	41	534

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Type-writing machine	A. W. Cash	372,602	Nov. 1	468	{ 125 126	{ 41	558
Type-writing machine	A. G. Donnelly	363,452	May 24	1947	510	39	862
Type-writing machine	A. G. Donnelly	365,370	June 28	1699	442	39	1434
Type-writing machine	A. G. Donnelly	365,372	June 28	1709	{ 443 444	{ 39	1435
Type-writing machine	A. G. Donnelly	365,373	June 28	1714	444	39	1436
Type-writing machine	A. G. Donnelly and A. E. Ayer	365,371	June 28	1706	443	39	1435
Type-writing machine	T. E. Enjalbert	369,401	Sept. 6	127	37	40	1056
Type-writing machine	W. W. Evans	374,046	Nov. 29	2640	{ 708 709	{ 41	1002
Type-writing machine	W. W. Evans	374,047	Nov. 29	2644	{ 709 710	{ 41	1003
Type-writing machine	G. A. Fairfield	366,084	July 5	453	123	40	85
Type-writing machine	E. Fitch	366,577	July 12	1128	{ 302 303	{ 40	225
Type-writing machine	W. O. Garner and C. F. Laganke	375,062	Dec. 20	1298	339	41	1314
Type-writing machine	G. W. Greene and L. P. Smith	356,245	Jan. 18	1356	358	38	275
Type-writing machine	G. W. Hall	364,343	June 7	182	51, 52	39	1123
Type-writing machine	E. M. Hamilton	357,666	Feb. 15	1350	{ 355 356	{ 38	691
Type-writing machine	E. M. Hamilton	357,667	Feb. 15	1354	{ 356 357	{ 38	691
Type-writing machine	E. M. Hamilton	357,671	Feb. 15	1360	358	38	692
Type-writing machine	E. M. Hamilton	357,920	Feb. 15	1708	446	38	758
Type-writing machine	E. M. Hamilton	357,921	Feb. 15	1709	446	38	758
Type-writing machine	L. Hanchett	360,685	Apr. 5	409	105	39	77
Type-writing machine	A. W. Houchin	363,896	May 31	2590	{ 673 674	{ 39	992
Type-writing machine	E. Howard	351,876	Apr. 26	2140	555	39	422
Type-writing machine	W. P. Kidder and J. R. Carter	372,542	Nov. 1	381	103	41	543
Type-writing machine	A. Mills	375,178	Dec. 20	1466	383	41	1347
Type-writing machine	N. G. Moore	357,090	Feb. 1	490	130	38	513
Type-writing machine	N. G. Moore	358,469	Mar. 1	65	17	38	915
Type-writing machine	R. E. Morris	355,703	Jan. 11	557	{ 146 147	{ 38	119
Type-writing machine	E. and D. J. Rowlands	367,447	Aug. 2	121	34, 35	40	474
Type-writing machine	F. X. Wagner	364,556	June 7	501	{ 134 135	{ 39	1182
Type-writing machine	J. H. Waite	357,878	Feb. 15	1652	430	38	747
Type-writing machine	J. H. Waite	371,997	Oct. 25	1805	{ 467 468	{ 41	381
Type-writing machine	G. L. Waitt	363,100	May 17	1467	389	39	761
Type-writing machine	C. Wing	363,570	May 24	2130	552	39	899
Type-writing machine	T. D. Worrall	363,932	May 31	2649	{ 687 688	{ 39	1001
Type-writing machine	T. D. Worrall	366,750	July 19	1381	370	40	278
Type-writing machines. Attachment for	A. B. Dick	357,271	Feb. 8	774	201	38	573
Type-writing machines. Copy-holder for	W. C. Munro and F. X. Mudd	368,962	Aug. 30	2343	622	40	932
Type-writing machines. Copy-holder for	A. S. Pattison	359,466	Mar. 15	1497	{ 383 384	{ 38	1194
Type-writing machines. Copy-holder for	J. C. Skelton	372,495	Nov. 1	306	84	41	529
Type-writing machines. Inking device for	C. Spiro	355,418	Jan. 4	165	43	38	33
Type-writing machines. Journal-bearing for	E. M. Hamilton	357,665	Feb. 15	1349	355	38	691
Type-writing machines. Paper-carriage feed mech- anism for	E. M. Hamilton	357,670	Feb. 15	1357	{ 357 358	{ 38	692
Type-writing machines. Ribbon-holding attachment for	W. W. Wilson	370,751	Sept. 27	2103	557	40	1451
Typographic apparatus. Hand	M. Eck	373,344	Nov. 15	1605	424	41	784
Umbrella	W. H. Burnett	364,987	June 14	1135	297	39	1307
Umbrella	E. J. Colby	359,431	Mar. 15	1455	372	38	1186
Umbrella	F. Haitz	360,294	Mar. 29	2841	723	38	1463
Umbrella	C. Howell	368,920	Aug. 23	2279	{ 606 607	{ 40	911
Umbrella	E. Kleber	363,650	May 24	2245	581	39	921
Umbrella, &c	C. A. M. Kremer	356,479	Jan. 25	1698	443	38	347
Umbrella	M. C. Stone	358,084	Feb. 22	1945	513	38	807
Umbrella and cane. Combined	C. E. Vail	369,374	Sept. 6	92	29	40	1051
Umbrella and parasol runners. Retainer for	E. L. Glenn	362,888	May 10	1165	311	39	697
Umbrella. Cane	J. McCormick	368,407	Aug. 16	1543	412	40	762
Umbrella. Cane	G. F. Seaver	358,412	Feb. 22	2401	639	38	892
Umbrella drip-cup	A. G. Nygard	359,981	Mar. 22	2330	586	38	1362
Umbrella-fastener	H. Rosenberg	357,858	Feb. 15	1631	424	38	743
Umbrella. Folding	F. Lecraft	360,966	Apr. 12	822	211	39	158
Umbrella. Folding	J. D. Nesbitt	364,951	June 14	1082	281	39	1297
Umbrella. Folding	J. W. Riddle	363,850	May 31	2535	659	39	982
Umbrella-frame	J. T. Cassidy and J. J. Rupp	359,844	Mar. 22	2120	534	38	1323
Umbrella-frame	J. Willis	356,516	Jan. 25	1746	455	38	356
Umbrella-frame. Folding	L. R. Witherell	371,652	Oct. 18	1289	334	41	270
Umbrella-holder	E. Covert	362,364	May 3	404	112	39	553
Umbrella or cane head	B. F. Du Bois	368,077	Aug. 9	1075	287	40	663
Umbrella or parasol	J. H. Amies	364,391	June 7	250	70	39	1136
Umbrella or parasol	J. T. Smith	361,899	Apr. 26	2171	562	39	428
Umbrella or parasol	J. T. Smith	361,900	Apr. 26	2172	562	39	428
Umbrella or parasol	M. S. Snow	368,980	Aug. 30	2366	629	40	937
Umbrella or parasol catch	J. T. Smith	366,522	July 12	1047	285	40	208
Umbrella or parasol runner retainer	J. T. Smith	365,644	June 28	2111	550	39	1513
Umbrella or parasol runners. Retainer for	S. W. Evans, Jr	363,615	May 24	2197	569	39	912
Umbrella or parasol runners. Retainer for	W. H. Wharton	366,801	July 19	1445	386	40	289
Umbrella-ribs. Machine for making paragon	D. M. Redmond	364,436	June 7	319	87, 88	39	1149
Umbrella show-case	C. M. Towson	356,858	Feb. 1	163	44	38	452
Umbrella-stand	G. W. Skanks	360,365	Mar. 29	2937	746	38	1479
Umbrella-stand	H. Westphal	370,113	Sept. 20	1162	{ 307 308	{ 40	1267

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Umbrella-support.....	A. B. Stevens.....	358,497	Mar. 1	112	27	38	924
Umbrella-support.....	W. D. Stillman.....	369,971	Sept. 13	944	249	40	1220
Umbrella-support.....	D. E. Tillman.....	365,282	June 21	1570	409	39	1396
Umbrella-tie.....	H. C. Bailey.....	363,943	May 31	2666	692	39	1005
Umbrellas, &c. Retention device for.....	W. H. Belknap.....	369,387	Sept. 6	109	33	40	1053
Uncoupling device. Automatic.....	G. J. Lubbering.....	368,157	Aug. 9	1180	315	40	683
Under-garment.....	A. S. Haight.....	370,781	Oct. 4	46	11	41	11
Under-garment. Combination.....	W. F. Kneip.....	374,307	Dec. 6	195	51	41	1083
Underground conduit.....	I. Paxson.....	361,319	Apr. 19	1339	344	39	265
Underground way or conduit.....	S. W. Arnold and W. C. Cranmer.....	366,195	July 12	605	165	40	123
Undershirt or vest.....	T. Dalby.....	357,068	Feb. 1	460	{ 122 123 }	38	507
Universal flexible joint for pipes.....	F. G. Botsford.....	374,447	Dec. 6	398	104	41	1121
Universal joint.....	G. P. Fenner.....	364,503	June 7	419	113	39	1167
Unloading apparatus.....	B. Chalfant.....	373,222	Nov. 15	1434	379	41	752
Upholstering-hair and preparing the same. Artificial.....	R. J. Stratford.....	367,681	Aug. 2	489	.....	40	543
Urinal.....	J. H. Stevens.....	359,334	Mar. 15	1302	338	38	1158
Urinal-stall.....	J. Clifford.....	358,651	Mar. 1	344	83	38	967
Vacuum-pans. Discharge mechanism for.....	R. G. Peters.....	366,505	July 12	1020	278	40	203
Vacuum-producing apparatus.....	W. L. Horne.....	372,069	Oct. 25	1929	497	41	401
Vacuum-producing apparatus.....	W. L. Horne.....	372,070	Oct. 25	1930	498	41	402
Vaginal expanding and cleansing instrument.....	M. G. Collins.....	365,969	July 5	302	80	40	57
Valve.....	J. Giles.....	373,522	Nov. 22	1904	505	41	852
Valve.....	H. E. Jacobs.....	363,643	May 24	2234	579	39	918
Valve.....	C. Jenkins.....	362,630	May 10	801	219	39	629
Valve.....	R. M. Lafferty.....	374,544	Dec. 6	545	142	41	1152
Valve.....	T. F. Morrin.....	364,842	June 14	924	245	39	1268
Valve.....	J. P. Neary.....	362,651	May 10	836	228	39	635
Valve.....	H. D. Pearsall.....	373,848	Nov. 29	2365	635	41	949
Valve.....	F. W. Robertshaw.....	372,641	Nov. 1	529	145	41	571
Valve.....	G. T. Wilson.....	359,948	Mar. 22	2276	572	38	1352
Valve.....	G. T. Wilson.....	359,949	Mar. 22	2277	572	38	1352
Valve.....	G. T. Wilson.....	364,562	June 7	509	137	39	1184
Valve.....	J. and A. Zehren.....	373,000	Nov. 8	1081	289	41	678
Valve. Air.....	C. Shields.....	367,324	July 26	2172	584	40	434
Valve and alarm. Safety.....	T. Shaw.....	372,493	Nov. 1	304	84	41	528
Valve. Angle.....	J. H. Bacon.....	371,540	Oct. 18	1137	296	41	240
Valve attachment for steam-cylinders.....	L. Boudreaux.....	362,418	May 3	487	138	39	569
Valve. Automatic.....	W. G. Browne.....	360,141	Mar. 29	2613	662	38	1420
Valve. Automatic air.....	H. L. Ide.....	357,320	Feb. 8	836	218	38	585
Valve. Automatic safety.....	E. F. Wallace and J. Wyman, Jr.....	375,029	Dec. 20	1255	328	41	1306
Valve. Automatic shut-off.....	J. G. Moomy.....	367,994	Aug. 9	963	258	40	642
Valve. Automatic sprinkler.....	E. T. Copeland.....	369,840	Sept. 13	733	196	40	1182
Valve. Automatic water-gage.....	J. Kayser.....	365,475	June 28	1861	483	39	1463
Valve. Back-pressure.....	T. J. Kieley.....	365,477	June 28	1862	483	39	1464
Valve. Balance.....	J. T. Merrill.....	356,148	Jan. 18	1231	326	38	251
Valve. Balance slide.....	W. J. Stevens.....	356,173	Jan. 18	1262	333	38	257
Valve. Balancethrottle.....	W. A. Pendry.....	360,170	Mar. 29	2660	671	38	1428
Valve. Balanced.....	W. F. Berry.....	374,237	Dec. 6	94	23, 24	41	1065
Valve. Balanced.....	L. A. Haines.....	365,680	June 28	2167	565	39	1523
Valve. Balanced.....	J. Lewis.....	365,135	June 21	1361	360	39	1356
Valve. Balanced.....	W. W. Lewis.....	365,927	July 5	244	64	40	48
Valve. Balanced.....	W. A. Short and E. Lalime.....	367,557	Aug. 2	294	83	40	507
Valve. Balanced.....	C. W. Vanderheyden and G. Powell.....	360,628	Apr. 5	338	84	39	65
Valve. Balanced oscillating.....	W. T. Reaser.....	363,765	May 24	2411	625	39	952
Valve. Balanced slide.....	E. J. Armstrong.....	358,799	Mar. 1	553	138	38	1007
Valve. Balanced slide.....	J. Booth.....	355,432	Jan. 4	180	48	38	36
Valve. Balanced slide.....	H. T. Giles.....	373,182	Nov. 15	1366	{ 362 363 }	41	740
Valve. Balanced slide.....	M. R. Moore.....	362,525	May 10	640	181	39	602
Valve. Balanced slide.....	W. W. and J. B. Primm.....	361,647	Apr. 19	1800	467	39	353
Valve. Balanced slide.....	A. J. Stevens.....	357,424	Feb. 8	977	257	38	612
Valve. Balanced slide.....	A. Thomson.....	361,382	Apr. 19	1427	368	39	281
Valve. Balanced throttle.....	W. A. Pendry.....	360,171	Mar. 29	2661	671	38	1428
Valve. Check.....	C. Lieb.....	362,166	May 3	157	46	39	504
Valve. Circular slide.....	W. C. Church.....	356,984	Feb. 1	338	89	38	485
Valve. Closet-flushing.....	P. Harvey.....	369,003	Aug. 30	2398	637	40	943
Valve. Closet-flushing.....	P. Harvey.....	375,353	Dec. 27	1697	446	41	1400
Valve-controller. Automatic.....	J. Wheeler.....	373,324	Nov. 15	1579	418	41	780
Valve-controller. Electric.....	S. W. and W. V. Dermitt.....	372,208	Oct. 25	2134	548	41	440
Valve-controller. Electric.....	W. H. Markland.....	369,801	Sept. 13	665	181	40	1169
Valve-controller. Electric.....	G. M. Sternberg.....	373,103	Nov. 15	1235	{ 329 330 }	41	717
Valve-controller. Electric.....	G. M. Sternberg.....	373,104	Nov. 15	1238	330	41	718
Valve controller. Elevator.....	T. W. Heermans.....	369,936	Sept. 13	885	235	40	1210
Valve controller. Thermometric.....	J. S. G. Carnachan.....	369,162	Aug. 30	2613	{ 693 694 }	40	986
Valve-controlling device. Thermotic.....	H. Deymann.....	373,969	Nov. 29	2538	682	41	981
Valve. Diaphragm.....	M. Zilles.....	365,767	June 28	2300	598	39	1548
Valve. Duplex.....	F. Grinnell.....	372,218	Oct. 25	2149	551	41	443
Valve. Elastic balance.....	J. Lewis.....	365,136	June 21	1362	361	39	1357
Valve. Electric.....	W. S. Johnson. (Reissue).....	10,802	Jan. 25	2058	540	38	415
Valve. Engine.....	J. H. Elward.....	375,144	Dec. 20	1422	371	41	1337
Valve. Engine.....	T. F. Farrell.....	367,283	July 26	2115	570	40	423
Valve. Flushing.....	T. McHugh.....	363,660	May 24	2255	584	39	923
Valve for air-brakes. Automatic.....	T. Lanahan.....	371,078	Oct. 4	491	123	41	97
Valve for beer and other vessels. Tap.....	J. Inglis.....	366,005	July 5	350	94	40	566
Valve for beer-casks. Safety.....	J. C. Schaefer.....	359,892	Mar. 22	2188	552	38	1335
Valve for compressors. Relief.....	H. O. Reinhardt.....	367,236	July 26	2044	551	40	411
Valve for dividing grain, &c. Tilting.....	W. Campbell.....	359,918	Mar. 22	2228	561	38	1343
Valve for drains. Automatic backwater.....	M. McGary.....	371,085	Oct. 4	501	126	41	99
Valve for engine-cylinders. Relief.....	T. M. Fell.....	357,191	Feb. 8	669	173	38	554
Valve for engine-cylinders. Relief.....	W. Vielhaber.....	367,563	Aug. 2	301	86, 87	40	508
Valve for feed-water pipes for steam-boilers.....	M. F. Kersey.....	369,062	Aug. 30	2486	660	40	960

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Valve for gas-service pipes. Shut-off.	J. S. Klein	371,075	Oct. 4	487	122	41	96
Valve for motors	E. Kaselowsky	374,073	Nov. 29	2684	721	41	1012
Valve for regulating fluid-pressure. Automatic	A. P. Massey	358,866	Mar. 8	673	167	38	1032
Valve for steam-engines. Reversing	P. M. Cross	363,318	May 17	1759	461	39	818
Valve for water-gages	M. K. Blinn	368,373	Aug. 16	1495	399	40	753
Valve for water-pipes	W. Kaiser	369,528	Sept. 6	296	82	40	1090
Valve for water-service pipes. Stop	D. Kearney	364,018	May 31	2780	720	39	1028
Valve. Gas-pressure-regulating	J. Thomas	366,702	July 19	1313	352	40	266
Valve. Gate	J. Old	364,952	June 14	1083	282	39	1297
Valve. Gate	W. S. Payne	374,695	Dec. 13	751	197	41	1203
Valve-gear	N. R. Brady	359,766	Mar. 22	1989	{ 503 } 504	{ 38 } 39	1299
Valve-gear	T. A. Edison	365,465	June 28	1843	479	39	1461
Valve-gear	H. W. Garratt	359,147	Mar. 8	1044	{ 271 } 272	{ 38 } 39	1103
Valve-gear	H. F. Gaskill	374,298	Dec. 6	182	48	41	1081
Valve-gear	H. T. Giles	372,666	Nov. 8	565	{ 154 } 155	{ 41 } 42	586
Valve-gear	E. Hill	359,865	Mar. 22	2151	543	38	1328
Valve-gear	E. Hill	373,660	Nov. 22	2096	{ 560 } 561	{ 41 } 42	890
Valve-gear	A. B. Landis	368,771	Aug. 23	2068	548	40	870
Valve-gear	G. M. Pelton	374,752	Dec. 13	829	217	41	1218
Valve-gear	E. F. Spaulding	362,400	May 3	455	126	39	564
Valve-gear	E. Tincknell	358,996	Mar. 8	855	217	38	1066
Valve-gear	W. Wilson	357,256	Feb. 8	753	{ 195 } 196	{ 38 } 39	569
Valve-gear	W. Wright	358,913	Mar. 8	743	184	38	1045
Valve gear. Automatic cut-off	J. W. Hayes	366,480	July 12	976	265	40	194
Valve-gear. Locomotive	W. J. Lewis	355,770	Jan. 11	652	{ 170 } 171	{ 38 } 39	137
Valve-gear. Steam-engine	F. M. Rites	363,968	May 31	2714	703	39	1014
Valve-gearing	N. W. Twiss	356,512	Jan. 25	1742	454	38	355
Valve. Generator	L. W. Puffer	363,763	May 24	2407	625	39	952
Valve. Globe	A. B. Rohny	357,561	Feb. 8	1190	313	38	652
Valve. Globe or other	E. F. Briggs	372,200	Oct. 25	2122	545	41	438
Valve. Globe relief	W. H. Wheeler	372,503	Nov. 1	320	87	41	531
Valve. Hydrant gate	J. Giles	373,523	Nov. 22	1906	505	41	852
Valve lubricator. Slide	E. McCoy	363,529	May 24	2071	537	39	887
Valve mechanism	J. J. Tonkin	360,741	Apr. 5	490	125	39	91
Valve mechanism for compound engines	F. M. Rites	356,376	Jan. 18	1543	406	38	310
Valve mechanism for water-mains. Electric	G. B. Bassett	365,040	June 21	1210	{ 319 } 320	{ 39 } 40	1331
Valve-operating mechanism	G. Z. Clark	359,131	Mar. 8	1025	266	38	1100
Valve-operating mechanism	A. Lindemann	355,457	Jan. 4	211	56, 57	38	42
Valve-operating mechanism	G. T. Wilson	364,695	June 14	680	1-2	39	1225
Valve. Piston	P. Armington	370,442	Sept. 27	1634	435	40	1364
Valve. Piston	P. Armington	370,443	Sept. 27	1635	436	40	1364
Valve. Pressure reducing or regulating	F. P. Hays	371,063	Oct. 4	473	119	41	94
Valve. Pressure-regulating	F. A. Jones	356,318	Jan. 18	1458	{ 383 } 384	{ 38 } 39	294
Valve. Radiator	C. R. Behnke	363,884	May 31	2575	669	39	989
Valve. Reducing	J. W. Hyatt	371,505	Oct. 11	1090	284	41	222
Valve. Reducing	R. H. Mather	355,543	Jan. 4	322	86	38	65
Valve. Reducing	J. J. Royle	363,422	May 24	1904	500	39	855
Valve-reversing mechanism	W. L. Tobey	359,649	Mar. 22	1809	460	38	1267
Valve. Rotary	W. Berrenberg	355,677	Jan. 11	524	138	38	112
Valve. Rotary	J. L. Mitchell	365,315	June 21	1611	420	39	1403
Valve. Safety	G. H. Crosby and A. C. Meady	356,525	Jan. 25	1756	457	38	357
Valve. Safety	J. Desmond	358,148	Feb. 22	2043	537	38	823
Valve. Safety	A. C. Meady	374,617	Dec. 13	648	169	41	1181
Valve. Safety	A. Orme	374,750	Dec. 13	826	217	41	1217
Valve. Safety	W. Simpkin	364,052	May 31	2822	732	39	1036
Valve. Safety check	M. Warren	365,656	June 28	2134	558	39	1517
Valve. Safety water-gage	P. Barclay	375,409	Dec. 27	1769	463	41	1414
Valve. Slide	G. Bonker	374,289	Dec. 6	162	42	41	1078
Valve. Slide	J. Booth	355,433	Jan. 4	181	48	38	37
Valve. Slide	T. T. Brown	370,725	Sept. 27	2070	549	40	1445
Valve. Slide	L. Engebretsen	374,463	Dec. 6	421	110	41	1126
Valve. Slide	P. Krickl	363,750	May 24	2388	620	39	948
Valve. Slide	G. B. Stevenson	369,134	Aug. 30	2581	686	40	979
Valve. Slow-closing tank	S. G. Smith	374,637	Dec. 13	676	178	41	1187
Valve. Steam	E. R. Bryant	370,043	Sept. 20	1058	280	40	1249
Valve. Steam	S. S. Cook	361,990	Apr. 26	2305	600	39	450
Valve. Steam	K. Knott	369,797	Sept. 13	660	{ 179 } 180	{ 40 } 41	1169
Valve. Steam	C. F. Rigby	366,028	July 5	387	104	40	73
Valve. Steam	G. O. Titcomb	367,327	July 26	2176	585	40	435
Valve. Steam	J. J. Tonkin	362,406	May 3	463	128	39	565
Valve. Steam-actuated	F. A. Cresswell	358,804	Mar. 1	558	139	38	1008
Valve. Steam-actuated	M. Hastings	368,209	Aug. 16	1261	336	40	706
Valve. Steam-actuated	J. B. Maas	368,294	Aug. 16	1397	{ 368 } 369	{ 40 } 41	732
Valve. Steam-actuated	G. T. Parnell	375,091	Dec. 20	1346	351	41	1323
Valve. Steam-actuated	M. Schultz	369,659	Sept. 6	482	{ 133 } 134	{ 40 } 41	1126
Valve. Steam-engine	P. Armington	357,113	Feb. 1	546	141	38	522
Valve. Steam-engine	C. W. Barnaby	364,207	June 7	14	4	39	1091
Valve. Steam-engine	W. Brown	359,707	Mar. 22	1892	481	38	1283
Valve. Steam-engine	P. M. Cross	363,317	May 17	1758	460	39	818
Valve. Steam-engine	A. L. Ide	360,594	Apr. 5	296	72	39	57
Valve. Steam-engine	K. D. Noble	367,657	Aug. 2	445	123	40	536
Valve. Steam-engine	A. J. Peirce	366,870	July 19	1539	413	40	306
Valve. Steam-engine	C. C. Poole	369,552	Sept. 6	324	89, 90	40	1096

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Valve. Steam-engine.....	C. T. Porter	368,422	Aug. 16	1566	418	40	767
Valve. Steep-tank.....	W. Griesser	373,773	Nov. 22	2255	605	41	919
Valve-stems. Supporting mechanism for.....	E. P. Monroe	369,358	Sept. 6	72	20 21 22 23	40	1048
Valve. Stop.....	D. Gilson	360,290	Mar. 29	2838	722	38	1462
Valve. Stop.....	J. Richards	358,222	Feb. 22	2147	566	38	844
Valve. Stop.....	J. Stott	361,908	Apr. 26	2183	566	39	430
Valve. Straight-way	E. Lunkenheimer	360,167	Mar. 29	2656	670	38	1427
Valve. Thermal.....	J. Hurt	365,258	June 21	1535	400	39	1389
Valve. Three-way.....	C. W. Dwelle	373,819	Nov. 29	2325	623	41	941
Valve. Throttle.....	E. W. Luce	372,077	Oct. 25	1944	501	41	404
Valve. Throttle.....	J. J. Tonkin	357,511	Feb. 8	1099	290	38	635
Valve. Throttle.....	W. T. Willard	363,872	May 31	2562	665	39	987
Valve. Tubular-well.....	N. E. Hildreth.....	359,444	Mar. 15	1472	376	38	1189
Valve, valve-seat, &c	R. W. Traylor.....	355,487	Jan. 4	252	67	38	51
Valve. Water.....	G. and G. G. Campbell.....	362,059	May 3	11	4	39	475
Valve. Water-tank	H. S. Hopper	362,963	May 17	1283	340	39	725
Valves and cocks. Swivel-handle for.....	J. S. Glenn	367,513	Aug. 2	234	67	40	496
Valves and dampers. Electro-magnetic regulator for.....	G. M. Sternberg and A. A. Lehmann.....	355,895	Jan. 11	856	224	38	173
Valves and valve-seats. Device for renewing	G. W. Hollingsworth	371,321	Oct. 11	831	213	41	170
Valves by electricity. Controlling	F. Bain	356,024	Jan. 11	1036	272	38	209
Valves. Device for operating throttle.....	S. Perkins	359,628	Mar. 22	1781	454	38	1262
Valves. Electro-magnetic regulator for	G. M. Sternberg	355,892	Jan. 11	846	223	38	171
Valves in tanks. Device for controlling the operation of	T. McHugh.....	362,764	May 10	1004	272 273	39	666
Valves in tanks. Device for controlling the operation of	T. McHugh.....	362,765	May 10	1006	273	39	667
Valves in mains. Electrical apparatus for operating	F. B. Graves.....	358,775	Mar. 1	516	126	38	999
Valves. Means for controlling elevator.....	T. W. Heermans.....	369,937	Sept. 13	886	235	40	1210
Valves. Stuffing-box for steam.....	L. Kaczander and R. Ruddy	359,869	Mar. 22	2157	544	38	1329
Valves. Tank-operating connection for stop and waste	P. Harvey	372,617	Nov. 1	488	132	41	562
Vapor and steam burner	S. T. McDougall.....	370,486	Sept. 27	1702	452	40	1377
Vapor-bath.....	E. Hosford	360,773	Apr. 5	533	138	39	100
Vapor-burner	W. M. Abbott	373,874	Nov. 29	2400	644	41	955
Vapor-burner	W. P. Butler	362,929	May 17	1228	327	39	715
Vapor-burner	Z. Davis	371,040	Oct. 4	444	111 112	41	88
Vapor-burner	Z. Davis	371,041	Oct. 4	446	112	41	88
Vapor-burner	O. Ewert	361,934	Apr. 26	2214	575	39	436
Vapor-burner	F. J. Hubbard	371,942	Oct. 25	1731	447	41	367
Vapor-burner	J. Pfau	358,878	Mar. 8	689	171	38	1035
Vapor-burner	H. Ruppel	366,261	July 12	704	191	40	141
Vapor-burner	G. M. Voltz	363,863	May 31	2552	663	39	985
Vapor-burner	W. Wainwright	357,798	Feb. 15	1548	403	38	727
Vaporizer.....	G. M. Sherman	366,693	July 19	1301	348	40	263
Vaporizer.....	J. H. Valentine	374,720	Dec. 13	786	206 207	41	1209
Vaporizer for medicinal purposes. Electrolytic	M. M. Gillam	366,164	July 5	559	150	40	105
Vat: See Cheese-vat. Sizing-vat. Dye-vat.							
Vat-covers. Means for operating	P. P. Glor	370,694	Sept. 27	2020	538	40	1435
Vault. Bank.....	H. Gross	370,470	Sept. 27	1678	447	40	1373
Vault. Bank.....	H. Gross	370,471	Sept. 27	1683	447	40	1374
Vault. Burial.....	H. Froehlich	372,532	Nov. 1	362	99	41	539
Vault-covering, illuminating-tiling, &c	T. Hyatt	365,306	June 21	1600	417	39	1401
Vault. Grave.....	D. N. Stinson	361,466	Apr. 19	1537	398	39	302
Vault-light.....	P. Herzog	365,305	June 21	1599	416	39	1401
Vector tip and holder	A. R. Foote	355,308	Jan. 4	21	6	38	6
Vegetable-cutter.....	D. Bullock	366,920	July 19	1598	428	40	319
Vegetable-cutter.....	R. W. Cash	362,570	May 10	703	196	39	612
Vegetable-cutter.....	W. L. Hinsch	369,853	Sept. 13	749	201	40	1185
Vegetable-cutter.....	F. Wuest	369,673	Sept. 6	502	138	40	1131
Vegetable-slicer.....	M. L. Keach	368,092	Aug. 9	1095	291	40	667
Vehicle	G. C. Apple and C. W. Brandon	374,441	Dec. 6	385	101	41	1119
Vehicle	W. K. Fraley	357,956	Feb. 15	1755	458	38	766
Vehicle	C. L. Peirce	359,468	Mar. 15	1503	384	38	1195
Vehicle	F. M. Renner.....	373,606	Nov. 22	2020	536	41	873
Vehicle	E. D. Weller	373,704	Nov. 22	2157	577	41	902
Vehicle attachment for carrying oil-cans, &c	C. Cohen	362,358	May 3	399	110	39	552
Vehicle-bodies. Corner-plate for	E. S. Mead	362,985	May 17	1308	347	39	730
Vehicle-body	H. A. Moyer	364,843	June 14	926	245	39	1268
Vehicle body-brace	W. W. Grier	356,935	Feb. 1	264	73	38	470
Vehicle-boot	G. Youtsey and H. Higgin	375,113	Dec. 20	1379	358	41	1329
Vehicle-brake.....	S. W. Albertson	374,230	Dec. 6	85	21	41	1063
Vehicle-brake.....	E. H. Bacon	372,194	Oct. 25	2113	543	41	436
Vehicle-brake.....	H. J. Banta	360,195	Mar. 29	2694	680	38	1435
Vehicle-brake.....	S. M. Gillett	370,864	Oct. 4	169	45	41	33
Vehicle-brake.....	J. H. Irwin	361,589	Apr. 19	1708	441	39	334
Vehicle-brake.....	M. D. Platner	374,002	Nov. 29	2580	693	41	990
Vehicle-brake.....	S. Sturgis	355,355	Jan. 4	89	24	38	19
Vehicle-brake.....	J. K. P. Timmons	375,397	Dec. 27	1755	460	41	1411
Vehicle cramping-check.....	W. J. Perkins	372,702	Nov. 8	618	168	41	597
Vehicle dash attachment.....	T. F. Smith	355,571	Jan. 4	360	97	38	73
Vehicle. Electrically-propelled	S. D. Field	375,346	Dec. 27	1690	444	41	1399
Vehicle. Extensible.....	C. P. Waldo	362,129	May 3	105	33	39	494
Vehicle-fender	R. M. Stivers	359,476	Mar. 15	1518	388 389	38	1198
Vehicle for delivering coal-oil, &c.....	C. H. Weygant	361,474	Apr. 19	1547	400 401	39	304
Vehicle-gear	J. N. Brown	365,786	July 5	20	7	40	7

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Vehicle-gear	G. C. Burch	356,821	Feb. 1	107	30	38	443
Vehicle-gear	E. A. Gardiner	375,148	Dec. 20	1428	373	41	1338
Vehicle-gear	F. Schelp, Jr.	358,410	Feb. 22	2400	618	38	892
Vehicle-gear	L. Stouffer	361,790	Apr. 26	2009	523	39	397
Vehicle-gear	M. Woodhull	371,293	Oct. 11	793	202	41	163
Vehicle-gear clip	W. W. Grier	358,973	Mar. 8	821	208	38	1061
Vehicle-heater	E. A. Olmstead	367,997	Aug. 9	966	259	40	643
Vehicle heater and lamp	T. A. Long	363,149	May 17	1535	405	39	775
Vehicle-hitching device	J. E. Grose	372,311	Nov. 1	40	13	41	479
Vehicle jump-seat	C. H. Stratton	358,794	Mar. 1	542	133	38	1005
Vehicle line-protector	F. C. York	363,715	May 24	2343	608	39	940
Vehicle reach-coupling	H. Oakes	356,049	Jan. 11	1074	282	38	216
Vehicle. Road	G. B. Schoepf	364,862	June 14	950	250	39	1273
Vehicle-runner	A. P. Yates	359,656	Mar. 22	1818	462	38	1269
Vehicle-runner attachment	F. J. Aubeuf	363,717	May 24	2345	609	39	940
Vehicle running-gear	S. N. Belgium	374,923	Dec. 20	1095	286	41	1277
Vehicle running-gear	C. M. Blydenburgh	371,413	Oct. 11	960	249	41	195
Vehicle running-gear	S. Burdsall	362,423	May 3	492	139	39	570
Vehicle running-gear	J. J. Fetzner	356,309	Jan. 18	1449	380	38	292
Vehicle running-gear	G. Girardey	363,325	May 17	1769	463	39	820
Vehicle running-gear	J. P. Harter	358,446	Mar. 1	32	9. 10	38	909
Vehicle running-gear	T. G. Mandt	375,642	Dec. 27	2097	546	41	1476
Vehicle running-gear	R. W. McClelland	366,969	July 19	1663	446	40	331
Vehicle running-gear	F. S. Seagrave	357,417	Feb. 8	968	255		
Vehicle running-gear	D. A. Sprague. (Reissue)	10,800	Jan. 18	1633	427	38	327
Vehicle running-gear	A. J. Sutherland	372,391	Nov. 1	161	46	41	500
Vehicle running-gear	E. D. Weller	373,505	Nov. 22	1867	496	41	845
Vehicle running-gear	W. K. Howes	355,319	Jan. 4	36	10		
Vehicle-seat	J. Kauffman	364,519	June 7	438	118	39	1170
Vehicle-seat	J. W. Yous	367,572	Aug. 2	318	91	40	512
Vehicle-seat bars. Machine for forming	B. F. Rix	366,880	July 19	1553	416	40	310
Vehicle-seat bars. Machine for forming	E. W. Stewart	373,698	Nov. 22	2150	575	41	900
Vehicle-seat bars. Machine for forming	E. W. Stewart	373,698	Nov. 22	2150	576		
Vehicle-seat. Folding	S. and G. Penfold	371,622	Oct. 18	1251	325	41	262
Vehicle shifting-rail	P. White	362,132	May 3	109	34	39	494
Vehicle. Side-bar	W. H. Bowe	360,200	Mar. 29	2700	682	38	1436
Vehicle. Side-spring	W. A. Paterson	356,954	Feb. 1	292	81	38	476
Vehicle. Spring	J. C. Barry	358,530	Mar. 1	178	42	38	935
Vehicle. Spring	C. Benson	370,721	Sept. 27	2063	547	40	1444
Vehicle. Spring	J. W. Brown	357,173	Feb. 8	642	167	38	548
Vehicle. Spring	E. H. Carpenter	356,617	Jan. 25	1895	498	38	384
Vehicle. Spring	L. M. Fitch	357,820	Feb. 15	1578	410	38	733
Vehicle. Spring	H. A. Moyer	357,780	Feb. 15	1532	399	38	724
Vehicle. Spring	H. A. Moyer	357,781	Feb. 15	1533	399	38	724
Vehicle. Spring	H. A. Moyer	357,782	Feb. 15	1534	399	38	724
Vehicle. Spring	H. A. Moyer	373,375	Nov. 15	1666	442	41	796
Vehicle. Spring	H. W. Pell	364,284	June 7	111	32	39	125
Vehicle. Spring	W. H. Simmons	358,227	Feb. 22	2152	567	38	844
Vehicle. Spring	H. P. Tefft	372,718	Nov. 8	638	174	41	601
Vehicle-spring	C. A. Adams	360,839	Apr. 12	629	167	39	1185
Vehicle-spring	A. Armstrong	366,754	July 19	1387	371	40	279
Vehicle-spring	S. Atkinson	367,353	Aug. 2	1	1	40	451
Vehicle-spring	S. A. Bailey	357,753	Feb. 15	1487	390	38	716
Vehicle-spring	J. B. Baynes	368,371	Aug. 16	1493	398	40	753
Vehicle-spring	M. G. Bentley	364,569	June 7	518	140	39	1110
Vehicle-spring	C. M. Blydenburgh	372,059	Oct. 25	1909	492	41	398
Vehicle-spring	C. M. Blydenburgh	375,256	Dec. 20	1566	410	41	1367
Vehicle-spring	G. A. Brown	366,814	July 19	1462	391	40	292
Vehicle-spring	W. S. Bulett	373,171	Nov. 15	1347	357	41	737
Vehicle-spring	W. I. Bunker	373,267	Nov. 15	1489	393	41	763
Vehicle-spring	A. A. Capeling	365,579	June 28	2023	527	39	1496
Vehicle-spring	A. A. Capeling	365,579	June 28	2023	528		
Vehicle-spring	O. Cassity	375,603	Dec. 27	2043	530	41	1465
Vehicle-spring	E. Cliff	370,610	Sept. 27	1896	503	40	1412
Vehicle-spring	E. Cliff	370,610	Sept. 27	1896	504		
Vehicle-spring	A. J. Cooper	375,411	Dec. 27	1771	464	41	1415
Vehicle-spring	R. Crocker and J. Diehl	371,825	Oct. 18	1549	400	41	323
Vehicle-spring	R. Crocker and J. Diehl	371,826	Oct. 18	1551	401	41	323
Vehicle-spring	C. P. Crowe	371,435	Oct. 11	994	258	41	202
Vehicle-spring	F. L. Ezell	371,495	Oct. 11	1070	279	41	218
Vehicle-spring	J. D. Furnas	359,719	Mar. 22	1911	484	38	1286
Vehicle-spring	J. F. Gross	360,804	Apr. 5	573	149	39	108
Vehicle-spring	J. F. Gross. (Reissue)	10,836	May 24	2439	632	39	958
Vehicle-spring	J. H. Gunn	361,938	Apr. 26	2218	576	39	437
Vehicle-spring	G. E. Harris	361,697	Apr. 26	1874	486	39	374
Vehicle-spring	E. J. Hess	373,831	Nov. 29	2342	629	41	944
Vehicle-spring	J. King and T. J. Magner	365,009	June 14	1162	305	39	1311
Vehicle-spring	E. B. Lake	356,649	Jan. 25	1938	508	38	392
Vehicle-spring	J. McCormick	360,710	Apr. 5	450	114	39	83
Vehicle-spring	E. F. Morso	371,617	Oct. 18	1244	324	41	261
Vehicle-spring	H. A. Myer	366,500	July 12	1005	274	40	200
Vehicle-spring	F. S. Palmatier	62,174	May 3	164	48	39	505
Vehicle-spring	L. Pentz	65,483	June 28	1869	485	39	1465
Vehicle-spring	H. C. Swan	365,355	June 21	1673	437	39	1417
Vehicle-spring	H. C. Swan	372,717	Nov. 8	637	173	41	601
Vehicle-spring	C. L. Thomas	374,095	Nov. 29	2719	729	41	1019
Vehicle-spring	H. Timken	361,244	Apr. 12	1237	315	39	235
Vehicle-spring	B. A. Treat	60,787	Apr. 5	553	143	39	104
Vehicle-spring	D. I. Twitchell	359,986	ar. 22	2336	587	38	1362
Vehicle-spring attachment	S. M. Wier	364,457	June 7	359	99	39	1156
Vehicle-spring equalizer	T. D., J. M., and N. Toy	365,884	July 5	179	45	40	36

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Vehicle spring-gear	W. Blume	373,920	Nov. 29	2464	662	41	968
Vehicle spring-gear	C. W. Saladee	355,341	Jan. 4	70	19	38	15
Vehicle-spring platform	H. W. Van Antwerp	364,150	May 31	2966	770	39	1063
Vehicle. Spring-propelled	D. M. Pfautz	357,289	Feb. 8	795	207	38	577
Vehicle-springs. Shackle for	C. C. Bradley	375,529	Dec. 27	1925	504	41	1445
Vehicle. Steam road	J. H. Ballard	365,788	July 5	22	8 9 10	40	7
Vehicle-top	T. B. McCurdy	367,540	Aug. 2	267	76	40	502
Vehicle-top	B. F. Nye	364,034	May 31	2800	725	39	1032
Vehicle-top	C. L. Pritchard	362,039	Apr. 26	2375	619	39	463
Vehicle. Two-wheeled	J. P. Barker	366,063	July 5	429	117	40	81
Vehicle. Two-wheeled	E. W. Baxter	357,809	Feb. 15	1561	406	38	730
Vehicle. Two-wheeled	C. S. Beebe	365,566	June 28	2005	523	39	1493
Vehicle. Two-wheeled	I. Bluford	357,972	Feb. 15	1783	468	38	771
Vehicle. Two-wheeled	L. Cooney, Jr.	375,129	Dec. 20	1405	365	41	1333
Vehicle. Two-wheeled	L. Cooney, Jr.	375,130	Dec. 20	1405	365	41	1333
Vehicle. Two-wheeled	I. N. Fanebust	356,110	Jan. 18	1180	312	38	242
Vehicle. Two-wheeled	A. P. Ferguson	362,733	May 10	944	257	39	657
Vehicle. Two-wheeled	W. S. Frazier	361,685	Apr. 26	1860	482	39	372
Vehicle. Two-wheeled	W. M. Graham	369,987	Sept. 13	964	255	40	1224
Vehicle. Two-wheeled	J. T. Gurney	361,939	Apr. 26	2219	577	39	437
Vehicle. Two-wheeled	J. T. Gurney	361,940	Apr. 26	2222	578	39	437
Vehicle. Two-wheeled	J. T. Gurney	361,941	Apr. 26	2227	579	39	438
Vehicle. Two-wheeled	R. W. Hare and R. Sproul	364,921	June 14	1031	270	39	1288
Vehicle. Two-wheeled	R. W. Hare and R. Sproul	375,287	Dec. 20	1603	421	41	1374
Vehicle. Two-wheeled	D. W. Haydock	365,437	June 28	1805	469	39	1453
Vehicle. Two-wheeled	B. J. Healy	364,714	June 14	716	191	39	1232
Vehicle. Two-wheeled	B. J. Healy	365,812	July 5	73	21	40	15
Vehicle. Two-wheeled	B. J. Healy	372,674	Nov. 8	580	158	41	590
Vehicle. Two-wheeled	H. G. M. Howard	361,288	Apr. 19	1296	332	39	257
Vehicle. Two-wheeled	H. G. M. Howard	367,105	July 26	1855	501	40	375
Vehicle. Two-wheeled	H. G. M. Howard	372,676	Nov. 8	582	158	41	590
Vehicle. Two-wheeled	H. G. M. Howard and R. Brayton	363,520	May 24	2055	534	39	885
Vehicle. Two-wheeled	R. R. Jones	374,873	Dec. 13	1007	263	41	1251
Vehicle. Two-wheeled	E. W. Keegan	360,889	Apr. 12	704	186	39	138
Vehicle. Two-wheeled	R. W. Mayhew	362,642	May 10	824	225	39	633
Vehicle. Two-wheeled	G. H. Morgan	360,721	Apr. 5	463	117	39	86
Vehicle. Two-wheeled	G. H. Morgan	360,722	Apr. 5	464	117 118	39	86
Vehicle. Two-wheeled	B. F. Myers	373,090	Nov. 15	1221	326	41	715
Vehicle. Two-wheeled	C. W. Noyes	356,494	Jan. 25	1717	448	38	351
Vehicle. Two-wheeled	C. W. Noyes	356,495	Jan. 25	1717	449	38	351
Vehicle. Two-wheeled	C. W. Noyes	361,317	Apr. 19	1338	343	39	265
Vehicle. Two-wheeled	N. S. Parker	375,565	Dec. 27	1982	516	41	1456
Vehicle. Two-wheeled	J. G. Parsons	362,777	May 10	1023	278	39	670
Vehicle. Two-wheeled	D. S. Pembroke	375,506	Dec. 27	1894	496	41	1439
Vehicle. Two-wheeled	F. L. Perry	356,887	Feb. 1	207	58	38	459
Vehicle. Two-wheeled	F. L. Perry	368,001	Aug. 9	971	260	40	644
Vehicle. Two-wheeled	J. W. Phillips	370,815	Oct. 4	85	23	41	19
Vehicle. Two-wheeled	B. S. and C. W. Porter	375,381	Dec. 27	1735	455	41	1408
Vehicle. Two-wheeled	B. S. and C. W. Porter	375,382	Dec. 27	1735	455	41	1408
Vehicle. Two-wheeled	L. C. Pratt	366,344	July 12	814	219	40	161
Vehicle. Two-wheeled	C. R. Pratt and C. H. W. Foster	363,341	May 24	2088	541	39	890
Vehicle. Two-wheeled	B. F. Rix	357,156	Feb. 1	614	158	38	534
Vehicle. Two-wheeled	B. F. Rix	358,752	Mar. 1	486	118	38	994
Vehicle. Two-wheeled	B. F. Rix	364,730	June 14	730	195	39	1235
Vehicle. Two-wheeled	W. D. Rumsey	361,325	Apr. 19	1344	346	39	266
Vehicle. Two-wheeled	J. Sovereign	366,798	July 19	1441	385	40	288
Vehicle. Two-wheeled	H. Wilbur	358,908	Mar. 8	736	183	38	1044
Vehicle-wheel	C. Behringer	358,531	Mar. 1	178	42	38	935
Vehicle-wheel	C. G. Canfield	363,587	May 24	2151	558	39	904
Vehicle-wheel	J. N. Clouse	366,620	July 12	1195	320	40	236
Vehicle-wheel	J. Fraser	365,122	June 21	1344	356	39	1353
Vehicle-wheel	F. H. Harris	371,580	Oct. 18	1195	311	41	251
Vehicle-wheel	W. C. Hodnett	359,445	Mar. 15	1473	376 377	38	1190
Vehicle-wheel	J. Macphail and F. M. Needham	366,332	July 12	799	215	40	158
Vehicle-wheel	W. D. Misener	374,156	Nov. 29	2801	752	41	1033
Vehicle-wheel	J. E. Nice	369,202	Aug. 30	2664	708	40	996
Vehicle-wheel	A. P. Ricard	375,426	Dec. 27	1793	469	41	1419
Vehicle-wheel	M. L. Smith	358,631	Mar. 1	314	75	38	962
Vehicle-wheel	R. M. Suratt	356,383	Jan. 18	1555	409	38	312
Vehicle-wheel	R. A. Townsend	364,872	June 14	966	254	39	1276
Vehicle-wheel	D. S. Wing	361,914	Apr. 26	2191	568	39	431
Vehicle-wheel fender	J. A. Dunning	368,912	Aug. 23	2268	603	40	909
Vehicle-wheel lock	G. N. Adams	365,559	June 28	1992	519	39	1491
Vehicle-wheel runner	W. A. Hyde	364,591	June 7	547	147	39	1191
Vehicle-wheels. Rubber for	F. W. Johnson	374,967	Dec. 20	1170	305	41	1291
Vehicles. Adjustable runner for	H. Z. Baker	362,242	May 3	251	71	39	522
Vehicles. Chafe-iron for	C. C. Larrabee	366,227	July 12	654	178	40	131
Vehicles. Dress-guard for	C. L. B. Martin	370,550	Sept. 27	1802	479	40	1395
Vehicles. Harness-attaching device for	T. J. Houghton	357,600	Feb. 15	1254	329	38	674
Vehicles. Mud-fender for	G. W. Atkins	359,530	Mar. 15	1607	412	38	1215
Vehicles. Pneumatic apparatus for the propulsion of	S. P. M. Tasker	364,450	June 7	344	94, 95	39	1154
Vehicles. Reach-connection for	G. C. Burch	371,734	Oct. 18	1421	367	41	298
Vehicles. Runner attachment for wheeled	L. S. McCray	369,728	Sept. 13	572	156	40	1152
Vehicles. Shaft-coupling for	J. Arnao, Jr.	366,194	July 12	605	165	40	123
Vehicles. Shifting seat for	C. C. Adelsperger	367,884	Aug. 9	797	215	40	611
Vehicles. Spring-seat for	A. Savaria and J. B. Beauchemin	362,788	May 10	1035	281	39	672
Vehicles. Storm-apron for	C. C. King	362,012	Apr. 26	2341	610	39	457
Vehicles. Wear-plate for	B. W. Beach	365,960	July 5	291	77	40	55
Velocimeter. Recording	J. Boyer	356,916	Feb. 1	240	66, 67	38	466

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Velocipede.....	W. H. Addicks.....	357,138	Feb. 1	586	{ 150 151	{ 38	529
Velocipede.....	T. Bierau.....	358,533	Mar. 1	181	42	38	936
Velocipede.....	T. Bierau.....	358,590	Mar. 1	266	61, 62	38	952
Velocipede.....	E. Blossfeld.....	363,360	May 24	1816	477	39	838
Velocipede.....	A. Burdess.....	364,335	June 7	173	48	39	1121
Velocipede.....	J. H. Cilley.....	358,730	Mar. 1	459	111	38	989
Velocipede.....	J. S. Copeland.....	358,960	Mar. 8	803	203	38	1057
Velocipede.....	J. S. Copeland.....	364,632	June 14	600	161	39	1209
Velocipede.....	J. S. Copeland.....	367,368	Aug. 2	20	5	40	455
Velocipede.....	J. S. Copeland.....	371,432	Oct. 11	989	257	41	201
Velocipede.....	D. Crowley.....	367,025	July 26	1735	467	40	352
Velocipede.....	C. E. Duryea.....	357,819	Feb. 15	1575	410	38	732
Velocipede.....	J. Harrington.....	359,863	Mar. 22	2149	542	38	1328
Velocipede.....	H. B. Hart.....	363,518	May 24	2050	533	39	884
Velocipede.....	E. C. Hernandez.....	360,017	Mar. 29	2399	607	38	1381
Velocipede.....	D. Horn.....	373,980	Nov. 29	2550	{ 685 686	{ 41	984
Velocipede.....	H. J. Hudson.....	375,707	Dec. 27	2191	570	41	1493
Velocipede.....	T. B. Jeffery.....	355,321	Jan. 4	39	11	38	9
Velocipede.....	T. B. Jeffery.....	359,609	Mar. 22	1761	447	38	1258
Velocipede.....	T. B. Jeffery.....	365,074	June 21	1267	334	39	1340
Velocipede.....	T. B. Jeffery.....	366,218	July 12	641	174	40	129
Velocipede.....	D. E. Kempster.....	369,860	Sept. 13	757	203	40	1187
Velocipede.....	H. A. King.....	358,204	Feb. 22	2125	561	38	840
Velocipede.....	H. A. King.....	360,162	Mar. 29	2650	669	38	1426
Velocipede.....	C. Kramer.....	355,324	Jan. 4	45	12, 13	38	10
Velocipede.....	C. Kramer.....	361,530	Apr. 19	1617	419	39	318
Velocipede.....	E. G. Latta.....	360,101	Mar. 29	2542	{ 647 648	{ 38	1408
Velocipede.....	O. Ludewigs.....	369,017	Aug. 30	2416	641	40	947
Velocipede.....	G. W. Mallette.....	369,864	Sept. 13	767	205	40	1188
Velocipede.....	J. M. Marlin.....	369,540	Sept. 6	311	85, 86	40	1093
Velocipede.....	J. M. Marlin.....	369,541	Sept. 6	313	86	40	1094
Velocipede.....	T. W. Moore.....	365,015	June 14	1168	307	39	1312
Velocipede.....	T. O'Brien.....	372,428	Nov. 1	214	60	41	510
Velocipede.....	F. D. Owen.....	365,091	June 21	1290	{ 341 342	{ 39	1345
Velocipede.....	C. A. E. T. Palmer.....	367,115	July 26	1864	504	40	376
Velocipede.....	H. M. Pope.....	365,702	June 28	2200	{ 574 575	{ 39	1528
Velocipede.....	H. M. Pope.....	373,850	Nov. 29	2367	636	41	949
Velocipede.....	H. M. Pope.....	375,714	Dec. 27	2199	572	41	1494
Velocipede.....	G. M. Powell.....	365,488	June 28	1875	487	39	1466
Velocipede.....	J. C. Powell.....	368,167	Aug. 9	1195	{ 319 320	{ 40	686
Velocipede.....	E. Redman.....	356,600	Jan. 25	1862	490	38	378
Velocipede.....	D. H. Rice.....	357,691	Feb. 15	1387	365	38	697
Velocipede.....	K. Schmitt.....	371,374	Oct. 11	905	233	41	184
Velocipede.....	G. Singer and R. H. Lea.....	373,570	Nov. 22	1969	523	41	862
Velocipede.....	J. W. Smallman.....	366,638	July 12	1222	326	40	241
Velocipede.....	H. Thresher.....	366,703	July 19	1314	353	40	266
Velocipede.....	J. R. Trigwell.....	366,045	July 5	410	111	40	77
Velocipede.....	J. R. Trigwell.....	366,046	July 5	411	111	40	78
Velocipede.....	J. R. Trigwell.....	368,360	Aug. 16	1479	394	40	749
Velocipede.....	L. P. Valiquet.....	357,249	Feb. 8	742	{ 192 193	{ 38	567
Velocipede.....	C. H. Veeder.....	371,234	Oct. 11	709	152	41	148
Velocipede.....	R. Watson.....	363,189	May 17	1595	418	39	787
Velocipede.....	I. A. Weston and W. A. Smith.....	357,110	Feb. 1	542	{ 140 141	{ 38	521
Velocipede.....	D. Wiggins.....	358,178	Feb. 22	2090	{ 551 552	{ 38	832
Velocipede.....	W. F. Wuterich.....	355,672	Jan. 4	511	135	38	100
Velocipede-bearing.....	W. T. Andrews.....	371,911	Oct. 25	1687	437	41	359
Velocipede-crank.....	J. Knous.....	363,522	May 24	2058	535	39	885
Velocipede-fork.....	J. Knous.....	374,542	Dec. 6	543	141	41	1151
Velocipede-handle.....	T. B. Jeffery.....	366,775	July 19	1414	378	40	283
Velocipede-handle-bar fastening.....	C. R. Bannihir.....	363,354	May 24	1811	475	39	837
Velocipede. Ice.....	E. F. Batchelder.....	369,224	Aug. 30	2690	714	40	1001
Velocipede-motor.....	J. Witt.....	361,341	Apr. 19	1367	351	39	270
Velocipede-saddle.....	W. Cook.....	364,903	June 14	1010	265	39	1284
Velocipede-saddle.....	C. H. Veeder.....	372,994	Nov. 8	1070	286	41	676
Velocipede-screen.....	E. Ames.....	372,736	Nov. 8	668	183	41	606
Velocipede-seat.....	J. Harrington.....	364,171	May 31	2992	777	39	1068
Velocipede-wheel.....	A. P. Merrill.....	355,700	Jan. 11	554	146	38	118
Velocipedes. Steering-head for.....	J. Knous.....	371,266	Oct. 11	756	194	41	156
Velocipedes. Watch-bracket for.....	J. Foley, Jr.....	369,702	Sept. 13	539	148	40	1146
Vending apparatus.....	G. A. Macbeth.....	364,028	May 31	2791	723	39	1030
Vending apparatus. Automatic.....	H. J. Ennis.....	365,912	July 5	220	57	40	42
Vending apparatus. Automatic.....	P. Everitt.....	374,297	Dec. 6	176	{ 45 46 47	{ 41	1080
Vending apparatus. Automatic.....	F. C. Lynde.....	366,490	July 12	995	271	40	198
Vending apparatus. Automatic.....	F. C. Lynde.....	371,145	Oct. 4	585	{ 149 150	{ 41	115
Vending apparatus. Automatic.....	F. C. Lynde.....	371,146	Oct. 4	587	150	41	115
Vending apparatus. Automatic.....	F. C. Lynde.....	372,270	Oct. 25	2224	570	41	458
Vending apparatus. Automatic.....	C. H. Russell.....	373,415	Nov. 15	1724	455	41	805
Vending-machine. Automatic.....	H. J. Ennis.....	371,829	Oct. 18	1555	{ 401 402	{ 41	325
Vending-machine. Automatic.....	O. Schiess.....	372,175	Oct. 25	2078	{ 532 533	{ 41	430
Veneer box.....	S. F. Woodworth.....	362,136	May 3	114	35	39	495

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Veneer dishes. Machine for making	J. T. Ferris	364,404	June 7	275	77	39	1141
Veneer dishes. Machine for making	C. H. Treat and A. B. Banghart	360,181	Mar. 29	2676	{ 675 676 }	38	1431
Veneer drums. Machine for forming	W. Godfrey and G. W. Halstead	360,344	Mar. 29	2902	739	38	1474
Veneer drums. Machine for forming	W. Godfrey and G. W. Halstead	369,638	Sept. 6	454	{ 126 127 }	40	1121
Veneer. Ornamental	W. H. Hoyt	364,416	June 7	294	81	39	1144
Veneers. Apparatus for cutting	H. B. Crandall	357,181	Feb. 8	653	169	38	551
Veneers. Laying	A. C. Johnson	355,322	Jan. 4	41	11	38	9
Veneers. Machine for cutting	E. A. Harris	374,598	Dec. 13	624	162	41	1176
Veneering	W. E. Brock	368,567	Aug. 23	1780	474	40	816
Veneering-machine	J. W. and J. W. Sherwood	364,681	June 14	659	176	39	1221
Veneering. Spindle for forming tubes of	W. Parker	368,606	Aug. 23	1833	490	40	826
Veneering. Wood	I. H. Spelman	358,495	Mar. 1	107	26	38	924
Vent	J. Suydam	362,554	May 10	680	191	39	608
Vent and stopper. Combined	J. M. Ayer	373,763	Nov. 22	2235	598	41	917
Vent-plug for beer-kegs	G. T. Brewer	359,840	Mar. 22	2101	531	38	1320
Vent-stopper	E. G. Gosch	357,919	Feb. 15	1707	445	38	757
Ventilating and changing the temperature of build- ings	H. Tilden	375,228	Dec. 20	1529	402	41	1360
Ventilating apparatus	W. D. Mann	366,414	July 12	896	242	40	177
Ventilating attachment for stove-pipes	C. W. Parks	368,231	Aug. 16	1308	345	40	714
Ventilating furnace. Sewer-	L. L. Benson and W. T. Stilwell	355,295	Jan. 4	5	2	38	3
Ventilating-heater	A. McArthur	366,855	July 19	1522	407	40	304
Ventilating-heater	A. Weeks	370,580	Sept. 27	1850	491	40	1403
Ventilating ships' holds. Apparatus for	G. S. Dodman	368,196	Aug. 16	1246	{ 332 333 }	40	703
Ventilating tobacco-curing houses	N. Brunette	359,769	Mar. 22	1994	505	38	1300
Ventilating wheel or fan. Compound	J. E. Barney	356,439	Jan. 25	1639	430	38	336
Ventilation. House	C. H. Humbert	355,822	Jan. 11	736	192	38	151
Ventilation of pillows, &c.	W. H. Bowman	367,953	Aug. 9	902	244	40	631
Ventilation. System of	J. H. Lindsley	370,632	Sept. 27	1925	510	40	1418
Ventilator:							
See Car-ventilator. Well-ventilator.							
Hat-ventilator. Window-ventilator.							
Tent-ventilator. Window and door venti-							
Transom-ventilator. lator.							
Ventilator	P. R. Addoms	362,051	May 3	2	1	39	473
Ventilator	J. Honeyman	371,067	Oct. 4	477	120	41	95
Ventilator	A. A. Meyer	373,676	Nov. 22	2116	566	41	894
Ventilator	E. Mignault and G. A. Prichard	374,987	Dec. 20	1198	311	41	1296
Ventilator	J. Williams	364,074	May 31	2850	739	39	1042
Ventilator for buildings	I. Allegretti	370,592	Sept. 27	1865	495	40	1406
Vermin-eradicator	C. Meeker	365,930	July 5	249	65	40	48
Vermin-exterminator and preparing the same	C. A. Donovan	355,599	Jan. 4	394	.....	38	79
Vessel. Apparatus for maintaining the constant plane in a floating	B. Tower	366,438	July 12	923	251	40	183
Vessel for harbor and coast defense	F. I. Palmer	372,761	Nov. 8	703	194	41	612
Vessel-handle	F. C. Kasch	369,721	Sept. 13	564	154	40	1151
Vessel safety jacket or hood	W. D. Duncan	373,133	Nov. 15	1282	341	41	726
Vessels' booms. Life-rope for	J. M. O'Brien	359,028	Mar. 8	807	228	38	1074
Vessels. Bottom-scraper for	T. Thorsen	374,279	Dec. 6	145	38	41	1075
Vessels. Composition for lining	C. H. Wilder	372,733	Nov. 8	665	.....	41	605
Vessels. Construction of	T. J. Hanlen	365,180	June 21	1420	374	39	1368
Vessels. Construction of navigable	W. Forward	364,638	June 14	608	163	39	1210
Vessels. Convertible anchor and freight-hoisting apparatus for	T. Wilson	356,738	Jan. 25	2054	539	38	414
Vessels. Device for fastening lids of	E. A. and E. M. Pond	368,491	Aug. 16	1677	446	40	787
Vessels. Device for loading and unloading	G. W. Price	367,061	July 26	1784	481	40	362
Vessels. Device for unloading	G. W. Price	375,715	Dec. 27	2201	572	41	1495
Vessels. Foot and bottom for	J. Winsteadley, G. L. Smith, and T. L. Melven	355,495	Jan. 4	261	69	38	53
Vessels for marine purposes. Construction of	R. M. Fryer	355,868	Jan. 11	806	{ 211 212 }	38	164
Vessels. Gaff-chip for	A. F. Stubbs	366,274	July 12	720	196	40	143
Vessels. Light-supporting apparatus for	W. H. Hooker	357,709	Feb. 15	1412	371	38	703
Vessels. Machine for adjusting the ends in	G. W. Crowell	360,951	Apr. 12	796	205	39	153
Vessels. Means for securing in position the frame- work of	T. M. Rees	373,095	Nov. 15	1226	327	41	716
Vessels. Nose for metallic	L. B. Foss	358,971	Mar. 8	817	{ 206 207 }	38	1060
Vessels. Pin-rail attachment for	J. McKeon	360,535	Apr. 5	207	51	39	40
Vessels. Raising sunken and stranded	A. F. Eells	372,210	Oct. 25	2137	549	41	441
Vessels. Sheet-ring detacher for	A. D. Post	372,085	Oct. 25	1955	504	41	406
Veterinary lancet	I. C. Little	361,533	Apr. 19	1621	419	39	319
Veterinary remedy	O. R. Jones	359,611	Mar. 22	1763	.....	38	1259
Veterinary remedy	J. A. Sewall	358,001	Feb. 15	1824	.....	38	779
Vial-holder	A. Marquis and H. Hahn	363,659	May 24	2254	584	39	923
Vibrating engine	D. D. Hardy	373,287	Nov. 15	1524	403	41	769
Vibrating engine	D. D. Hardy	373,288	Nov. 15	1525	403	41	769
Vibrator. Electrically-actuated	F. B. Colman	367,270	July 26	2091	565	40	419
Vignetter	H. Kuhn	363,961	May 31	2704	{ 700 701 }	39	1012
Vignetter	H. Kuhn	369,453	Sept. 6	197	56	40	1069
Vinaigrette	C. E. F. Lewis	366,847	July 19	1512	404	40	301
Vine-securing device	J. Stangl	368,790	Aug. 23	2094	554	40	875
Vine-support	J. P. Crutcher	358,596	Mar. 1	275	64	38	954
Vine tie. Metallic grape-	Z. C. Pheatt	362,656	May 10	843	230	39	637
Vinegar apparatus	C. Gould	375,622	Dec. 27	2068	538	41	1470
Vinegar. Making	C. Gould	375,621	Dec. 27	2066	537	41	1470
Violin	J. D. Loppentien	360,317	Mar. 29	2866	729	38	1468
Violin	J. W. Pierson	364,291	June 7	118	34	39	1112
Violin	E. Runeström	358,573	Mar. 1	240	56	38	948
Violin-bow	A. W. White	358,315	Feb. 22	2270	599	38	867

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Violin-case	F. H. Bradford and N. E. Kennedy.	373,718	Nov. 22	2174	582	41	906
Violin-case and making the same.	G. S. Bond	361,123	Apr. 12	1048	265	39	200
Violin-case covers. Apparatus for forming.	G. B. Durkee	370,731	Sept. 27	2077	551	40	1446
Violin. Diminished-tone	C. F. Chew	358,542	Mar. 1	192	45	38	938
Violin tail-piece	E. P. Jenison	357,283	Feb. 8	787	204	38	576
Violin tuning-peg	J. H. Gardner	361,500	Apr. 19	1578	409	39	310
Violin tuning-peg	S. W. Wilcox	360,981	Apr. 12	841	215	39	161
Violins. Bow-rosining attachment for	E. M. and E. S. Comstock	373,645	Nov. 22	2078	555	41	885
Violins. Chin-holder for	L. Lowenthal	368,893	Aug. 23	2237	595	40	904
Violins. Chin-rest for	A. Hanson	367,001	July 19	1700	457	40	337
Violins. Combined chin and shoulder rest for.	F. L. Becker	360,408	Apr. 5	10	3	39	4
Violins. Key-board for	J. F. Poage	357,409	Feb. 8	956	252	38	608
Vise	M. Crawford	375,537	Dec. 27	1937	507	41	1448
Vise	M. Crawford	375,538	Dec. 27	1939	507	41	1448
Vise	J. Ernst	368,575	Aug. 23	1792	477	40	817
Vise	J. Ernst	370,937	Oct. 4	296	72	41	59
Vise	E. H. Farmer	362,262	May 3	272	76	39	526
Vise	J. Kenyon, J. Barnes, and R. W. Kenyon.	365,186	June 21	1427	376	39	1370
Vise	J. Parkinson	361,445	Apr. 19	1510	390	39	297
Vise and drill. Combined	E. C. Strange	361,600	Apr. 19	1725	445	39	337
Vise and drill. Combined	E. C. Strange	373,539	Nov. 22	1928	511	41	856
Vise-equalizer	E. D. Sloan	370,213	Sept. 20	1304	347	40	1295
Vise. Hand-	S. Joel	356,540	Jan. 25	1778	462	38	362
Vise holder. Saw-	A. J. Tyler	362,910	May 10	1198	320	39	703
Vise. Pipe-	J. H. Baker and G. F. Shevlin	363,041	May 17	1392	367	39	747
Vise. Pipe-	C. S. Bonney	357,306	Feb. 8	824	214	38	583
Vise. Pipe-	W. Vanderman	371,805	Oct. 18	1521	392	41	317
Vise. Pipe and rod	W. D. Forbes	356,871	Feb. 1	183	49	38	456
Vise. Saw-setting	J. F. Coxhead	358,842	Mar. 8	623	154	38	1024
Volt and ampère meter. Combined	R. Macrae	359,619	Mar. 22	1772	451	38	1260
Voltaic batteries. Manufacture of plates or elements for	D. G. Fitz-Gerald	358,111	Feb. 22	1985	524	38	813
Voltaic batteries. Manufacture of plates or elements for	W. H. Tasker and T. J. Jones	357,642	Feb. 15	1315	.....	38	685
Voltaic battery	T. J. Jones	358,120	Feb. 22	2002	527	38	816
Voltaic battery	A. F. W. Partz	362,531	May 10	649	183	39	603
Voltaic battery. Primary	J. E. Pearce	356,261	Jan. 18	1374	363	38	279
Voltaic inner sole	G. A. Fullerton	371,189	Oct. 11	649	166	41	136
Voting and recording apparatus for legislative bodies.	B. S. Molyneux	369,608	Sept. 6	408	114	40	1113
Voting-machine	M. H. Coffin	373,814	Nov. 29	2318	621	41	940
Vulcanizer	G. B. Snow	357,639	Feb. 15	1312	345	38	684
Vulcanizing apparatus	W. B. Mann	365,083	June 21	1279	339	39	1343
Vulcanizing-machine	A. C. Squires	375,617	Dec. 20	1240	324	41	1303
Vulcanizing rubber belts, packing, &c.	R. M. Rasett and T. F. Stevenson	362,597	May 10	747	206	39	619
Wad-sorter	P. Selby	365,544	June 28	1964	512	39	1486
Wad-sorting machine	P. Selby	375,509	Dec. 27	1898	{ 496 } { 497 }	{ 41 } { 41 }	1440
Wad-winding machine	A. Dickerman	365,054	June 21	1237	{ 325 } { 326 }	{ 39 } { 39 }	1336
Wagon	G. Smiley	367,247	July 26	2061	556	40	414
Wagon-bed	M. Mills	374,876	Dec. 13	1010	264	41	1252
Wagon-bed hoist	J. P. Potter	364,728	June 14	732	195	39	1234
Wagon block. Log-	I. Stewart	369,661	Sept. 6	486	134	40	1127
Wagon-bodies from the running-gear. Device for lifting	W. A. Pipher	356,157	Jan. 18	1245	329	38	253
Wagon-body	L. T. Clason	368,754	Aug. 23	2045	541	40	866
Wagon-body	C. F. Folsome	375,618	Dec. 27	2064	536	41	1469
Wagon-body	J. Stumpf	372,775	Nov. 8	740	{ 200 } { 201 }	{ 41 } { 41 }	617
Wagon-body	E. Wells	374,222	Dec. 6	73	19	41	1061
Wagon-body iron	E. Wells	374,223	Dec. 6	74	19	41	1061
Wagon-body support	J. Mooren	361,017	Apr. 12	900	228	39	171
Wagon-bolster stake	F. Wille	363,710	May 24	2336	606	39	938
Wagon-box	J. B. Bardin	358,588	Mar. 1	264	61	38	952
Wagon-box	J. Cochrane	360,562	Apr. 5	251	62	39	49
Wagon-box	F. Fisher	359,436	Mar. 15	1459	{ 373 } { 374 }	{ 38 } { 38 }	1187
Wagon-box lock	N. O. Calkins	364,801	June 14	863	226	39	1256
Wagon-box lock	J. Marx and J. H. Mueller	355,459	Jan. 4	215	57	38	43
Wagon-brake	F. L. Clark	366,458	July 12	947	258	40	188
Wagon-brake	J. C. Kelley	365,603	June 28	2060	537	39	1503
Wagon-brake	C. W. Loomis	374,547	Dec. 6	548	143	41	1152
Wagon-brake	C. V. Pugh	369,363	Sept. 6	79	25	40	1049
Wagon-brake	T. Rood	369,995	Sept. 13	975	258	40	1226
Wagon-brake	W. S. Smith	372,873	Nov. 8	898	241	41	644
Wagon-brake	A. Templeton	367,466	Aug. 2	149	42, 43	40	480
Wagon-brake	N. E. Thompson, Jr.	358,633	Mar. 1	317	76	38	962
Wagon-brake	T. J. Timmons	367,168	July 26	1938	523	40	390
Wagon-brake. Automatic	S. W. Albertson	373,548	Nov. 22	1938	513	41	858
Wagon-brake. Automatic	T. B. Elliott	374,950	Dec. 20	1146	300	41	1286
Wagon-brake. Automatic	O. Kirlin	372,682	Nov. 8	588	160	41	591
Wagon-brake. Automatic	M. Spencer	357,870	Feb. 15	1645	428	38	746
Wagon-brake. Automatic	C. E. Teed	363,435	May 24	1922	{ 504 } { 505 }	{ 39 } { 39 }	858
Wagon-brake lever	G. J. Riblet, Sr.	374,004	Nov. 29	2583	694	41	991
Wagon-brakes. Lever for	P. Farwell	365,737	June 28	2261	589	39	1540
Wagon. Buckboard	F. W. Lamoreux	359,791	Mar. 22	2029	514	38	1306
Wagon. Buckboard	C. G. Levison	373,990	Nov. 29	2566	690	41	988
Wagon. Convertible stock-	W. E. George	374,591	Dec. 13	609	159	41	1173
Wagon-dump and elevator	J. S. Kidd	358,457	Mar. 1	48	13	38	912
Wagon-dump and elevator	J. S. Kidd	361,297	Apr. 19	1311	{ 336 } { 337 }	{ 39 } { 39 }	260
Wagon. Dumping-	J. M. Blake	365,253	June 21	1487	391	39	1382

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wagon. Dumping.....	R. H. Branch.....	356,269	Jan. 18	1382	366	38	280
Wagon. Dumping.....	J. W. Dunham, F. P. and G. W. } Kisinger. }	360,799	Apr. 5	566	{ 147 148 }	{ 39 39 }	106
Wagon. Dumping.....	T. Hill.....	357,384	Feb. 8	925	244	38	602
Wagon. Dumping.....	T. Hill.....	372,470	Nov. 1	274	76	41	523
Wagon. Dumping.....	E. L. Hospes and L. N. Bergeron.....	367,103	July 26	1853	500	40	374
Wagon. Dumping.....	W. H. Knowlton.....	367,412	Aug. 2	78	21	40	466
Wagon. Dumping.....	J. Wagner.....	360,493	Apr. 5	142	34	39	27
Wagon elevator and dump.....	M. Kallenbach.....	366,399	July 12	882	237	40	174
Wagon for butchers.....	D. S. Amstutz.....	360,642	Apr. 5	354	89	39	68
Wagon for hauling dirt.....	D. Marrs.....	367,009	July 19	1710	{ 460 461 }	{ 40 40 }	340
Wagon-frame.....	S. A. Richards.....	371,854	Oct. 18	1601	413	41	333
Wagon frame. Tobacco.....	J. T. Prescott.....	357,786	Feb. 15	1537	400	38	725
Wagon-gear.....	J. P. Johnson.....	364,654	June 14	625	169	39	1214
Wagon-jack.....	S. W. Cately and W. D. Tisdale.....	370,767	Oct. 4	21	5	41	7
Wagon-jack.....	G. W. Davis.....	361,813	Apr. 26	2038	530	39	402
Wagon-jack.....	J. W. Epperson.....	369,330	Sept. 6	28	8	40	1040
Wagon-jack.....	G. Frazer.....	361,997	Apr. 26	2321	605	39	453
Wagon-jack.....	N. L. Hakes.....	367,973	Aug. 9	931	252	40	637
Wagon-jack.....	R. Hitt.....	371,887	Oct. 18	1651	426	41	342
Wagon-jack.....	C. O. Kelley.....	369,722	Sept. 13	565	154	40	1151
Wagon-jack.....	W. C. Loucks and C. W. Derrick.....	373,189	Nov. 15	1378	365	41	742
Wagon-jack.....	H. W. Rublee.....	361,025	Apr. 12	913	231	39	173
Wagon-jack.....	M. L. Scivalley.....	358,485	Mar. 1	92	23	38	921
Wagon-jack.....	A. O. Stiveson.....	373,700	Nov. 22	2152	576	41	901
Wagon-jack.....	J. M. Young.....	363,038	May 17	1385	366	39	745
Wagon. Lumber.....	J. M. Blake.....	365,569	June 28	2009	524	39	1494
Wagon-rack.....	T. V. Edwards.....	360,211	Mar. 29	2713	686	38	1438
Wagon-reach.....	A. Singer.....	362,231	May 3	238	69	39	519
Wagon running-gear.....	M. C. Hall.....	372,907	Nov. 8	942	255	41	653
Wagon running-gear.....	M. J. Hatcher.....	371,061	Oct. 4	471	118	41	93
Wagon running-gear.....	C. W. Saladee.....	375,428	Dec. 27	1795	469	41	1419
Wagon running-gear.....	D. A. Sprague and S. Perry.....	363,428	May 24	1911	{ 502 503 }	{ 39 39 }	856
Wagon running-gear.....	H. M. Stoddard.....	361,096	Apr. 12	1011	255	39	198
Wagon running-gear.....	J. H. Whiting.....	357,882	Feb. 15	1661	432	38	748
Wagon-seat fastening.....	T. Scudder.....	366,692	July 19	1300	348	40	263
Wagon-seats. Constructing.....	J. Q. Flint.....	369,510	Sept. 6	266	74	40	1084
Wagon-spring.....	L. Fracher.....	356,358	Jan. 18	1524	400	38	306
Wagon. Spring.....	H. M. Stoddard.....	374,278	Dec. 6	144	38	41	1075
Wagon. Spring-board.....	H. F. West.....	360,938	Apr. 12	777	202	39	150
Wagon-stake.....	J. H. Conover and D. S. Brink.....	356,927	Feb. 1	254	70	38	468
Wagon. Two-seated.....	G. E. Spare.....	365,648	June 28	2115	552	39	1513
Wagon wear-iron.....	C. E. Hewitt.....	356,687	Jan. 25	1982	521	38	401
Wagons. Folding feed-box for.....	C. E. Wintrobe and E. L. Griffith.....	366,549	July 12	1078	292	40	214
Wagons. Grain-board for.....	J. F. Daly.....	372,522	Nov. 1	343	95	41	535
Wagons. Gravel-bed for.....	C. M. Cotterman.....	361,675	Apr. 26	1847	479	39	370
Wagons. Ice-shoe for.....	J. C. Mathues.....	362,641	May 10	823	225	39	633
Wagons or agricultural machines. Seat for.....	S. Hedges.....	364,716	June 14	718	191	39	1232
Wagons. Scoop-board for.....	J. E. Garside.....	367,615	Aug. 2	374	105	40	523
Wagons. Spring-seat for.....	J. Wolf and W. F. Morell.....	367,772	Aug. 2	635	170	40	570
Wagons. Weighing attachment for.....	A. H. Patterson.....	357,854	Feb. 15	1626	422	38	742
Wagons. Wheel-fender for.....	J. Coughlin and W. Curtis.....	367,191	July 26	1968	532	40	396
Waistband attachment.....	M. Blondheim.....	372,511	Nov. 1	329	90	41	533
Waistband. Expanding.....	A. Levy.....	375,367	Dec. 27	1715	450	41	1404
Waistband. Supplementary.....	C. D. Spence.....	360,826	Apr. 5	607	159	39	114
Waistbands. Attaching elastic straps to.....	E. A. Todd.....	365,283	June 21	1570	409	39	1396
Walking-stick, umbrella-handle, &c.....	S. Simmons.....	372,177	Oct. 25	2084	534	41	431
Wall-coping.....	P. B. Wight.....	370,437	Sept. 27	1624	433	40	1363
Wall-coping. Machine for manufacturing.....	J. Francy.....	371,574	Oct. 18	1187	309	41	249
Wall decorations and signs. Compound for.....	E. Kutzkan and E. A. Otto.....	362,162	May 3	154	.....	39	503
Wall finish. Interior.....	O. L. Gardner.....	361,686	Apr. 26	1861	483	39	372
Wall finish. Interior.....	O. L. Gardner.....	361,687	Apr. 26	1862	483	39	372
Wall-hangings and other fabrics. Decorating.....	W. Sochefskey.....	357,508	Feb. 8	1096	.....	38	635
Wall-hangings, &c. Plastic composition for.....	W. J. Michels.....	355,776	Jan. 11	667	.....	38	139
Wall-paper.....	L. Baer and D. Kraemer.....	369,167	Aug. 30	2607	.....	40	985
Wall-paper.....	W. Campbell.....	358,647	Mar. 1	338	81	38	966
Wall-paper.....	B. F. Holbrook.....	357,083	Feb. 1	481	.....	38	511
Wall-paper.....	C. H. Prevost.....	368,686	Aug. 23	1945	.....	40	848
Wall-paper. Apparatus for drying.....	G. Jordan.....	358,274	Feb. 22	2218	585	38	857
Wall-paper exhibitor.....	J. Travis.....	357,542	Feb. 8	1158	304	38	646
Wall-paper. Hanging.....	W. W. Pollard.....	361,716	Apr. 26	1902	493	39	379
Wall-paper. Machine for bundling.....	S. M. Jackson.....	362,279	May 3	294	81	39	531
Wall-paper or other fabric.....	L. Baer and D. Kraemer.....	356,437	Jan. 25	1637	429	38	335
Wall-supporter.....	J. H. Carroll.....	370,315	Sept. 20	1439	385	40	1321
Wall-surfaces. Machine for backing facing-plates for.....	B. I. Lingle and L. Crull.....	373,670	Nov. 22	2108	564	41	892
Walls and other purposes. Manufacture of decorative materials for.....	T. J. Palmer.....	369,957	Sept. 13	916	244	40	1216
Walls. Apparatus for applying surfacing-plates to.....	B. I. Lingle and L. Crull.....	373,669	Nov. 22	2107	563	41	892
Walls. Decorating.....	H. McDonnell and J. J. Mallen.....	356,230	Jan. 18	1340	.....	38	271
Walls. Construction of.....	C. H. Frost.....	364,241	June 7	58	17	39	1100
Walls. Construction of.....	C. H. Frost.....	364,242	June 7	59	18	39	1100
Walls. Metallic plate for facing.....	P. A. Thomas.....	358,175	Feb. 22	2086	550	38	832
Walls of buildings or other structures. Means for protecting the.....	G. Richardson.....	373,946	Nov. 29	2503	672	41	975
Walls. Plastic compound for.....	H. W. Merritt.....	363,408	May 24	1877	.....	39	850
Wardrobe.....	C. H. T. Claus.....	363,595	May 24	2162	561	39	905
Wardrobe attachment.....	M. H. Cazier.....	366,456	July 12	946	258	40	188
Wardrobe attachment.....	D. W. Goodrich and S. W. Corwin.....	357,554	Feb. 8	1181	311	38	650
Wardrobe-hook.....	J. P. Crosby and W. Jayne.....	364,990	June 14	1138	298	39	1307
Wardrobe-hook.....	E. E. Fisher.....	360,577	Apr. 5	270	66	39	52
Wardrobe-hook.....	W. Jayne and J. P. Crosby.....	369,946	Sept. 13	900	240	40	1212
Wardrobe-hook.....	G. F. Waters.....	359,114	Mar. 8	1008	259	38	1096

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wardrobe-hook and shade-fixture. Combined.....	J. Fanning	367,202	July 26	1983	536	40	399
Wardrobe. Portable	M. E. Christman	357,905	Feb. 15	1691	440	38	754
Wardrobes. Clothes-rack for	H. T. Holzhalt	356,125	Jan. 18	1200	319	38	246
Warehouse	H. P. McDonald	372,549	Nov. 1	390	{ 105 106 }	{ 41 }	545
Warmer. Pocket hand-.....	H. E. Amore	366,709	July 19	1323	355	40	268
Warp-beam	E. P. Collins	356,823	Feb. 1	109	30	38	443
Warp-beam	H. Wyman	368,121	Aug. 9	1129	300	40	673
Warp-beamers. Separating-plate for	J. Murphy	371,272	Oct. 11	763	196	41	158
Warp-drawing machines. Reed-dent-separating device for	L. P. Sherman	363,689	May 24	2306	599	39	932
Warp-threads. Machine for drawing in	L. P. Sherman	359,471	Mar. 15	1506	{ 385 386 }	{ 38 }	1196
Warps. Apparatus for balling	F. S. Frye and E. Wade	373,180	Nov. 15	1364	{ 361 362 }	{ 41 }	739
Warpers. Drop-wire stop-motion mechanism for	G. S. Fenderson	359,014	Mar. 8	880	224	38	1071
Warping-machines. Lease-forming device for	W. F. West	370,435	Sept. 27	1621	432	40	1362
Warping-machines. Lifting-wire for stop-motions of	W. Bancroft	368,050	Aug. 9	1039	279	40	657
Warping or reeling machine	V. and J. Royle, Jr	370,162	Sept. 20	1229	{ 327 328 329 }	{ 40 }	1281
Wash-bench	D. Beaudry	357,304	Feb. 8	822	{ 213 214 }	{ 38 }	582
Wash-bench	O. Shepardson	359,035	Mar. 8	903	230	38	1075
Wash-bench	M. and B. Wilcox	363,104	May 17	1476	390	39	762
Wash-bench. Folding	F. Hanson	359,565	Mar. 15	1669	{ 425 426 }	{ 38 }	1226
Wash-board	S. Bingham	373,217	Nov. 15	1429	377	41	752
Wash-board	T. W. Dowling	360,210	Mar. 29	2712	685	38	1438
Wash-board	R. Grove	360,384	Mar. 29	2969	752	38	1485
Wash-board	J. S. Johnston	364,419	June 7	297	82	39	1145
Wash-board	M. A. Smith and J. Nurre	365,646	June 23	2113	551	39	1513
Wash-board	C. M. Stone	359,644	Mar. 22	1802	458	38	1266
Wash-board	A. Stroh	371,525	Oct. 11	1113	290	41	226
Wash-board	W. R. Van Vliet	358,707	Mar. 1	427	103	38	983
Wash-board appliance	C. J. Becker	371,408	Oct. 11	955	247	41	194
Wash-board plate	J. H. and O. T. Lapham	357,211	Feb. 8	694	179	38	559
Wash-board. Wire	L. B. Kitchel	360,306	Mar. 29	2853	726	38	1466
Wash-boiler	M. Bardill	357,895	Feb. 15	1678	437	38	751
Wash-boiler	G. Bergenheim	358,589	Mar. 1	265	61	38	952
Wash-boiler	L. D. Lewis	362,521	May 10	635	180	39	601
Wash-boiler	N. Rubenstein	369,299	Aug. 30	2796	745	40	1022
Wash-boiler	W. H. Russell	372,433	Nov. 1	221	62	41	512
Wash-boiler	H. H. Tuttle	359,650	Mar. 22	1810	460	38	1268
Wash-boiler fountain	C. W. Dennis	359,010	Mar. 8	875	223	38	1070
Wash-boilers. Bag-net for use in	W. H. H. Hinds	363,638	May 24	2230	578	39	917
Wash-boilers. Steam-fountain for	S. J. Dawkins	375,134	Dec. 20	1411	367	41	1335
Wash-stand	N. O. Bond	369,684	Sept. 13	517	143	40	1143
Wash-stand	H. E. Braunfeld	374,822	Dec. 13	935	243	41	1238
Wash-stand	J. J. Graf	361,585	Apr. 19	1702	439	39	333
Wash-stand and bracket. Combined	C. H. Hawkins	368,830	Aug. 23	2149	569	40	885
Wash-stand. Portable	H. C. Lowrie	358,743	Mar. 1	472	{ 115 116 }	{ 38 }	991
Wash-stands. Attachment for	J. W. Childs	364,479	June 7	387	105	39	1161
Wash-stands. Device for attaching splasher-mats to	A. E. Robinson	358,626	Mar. 1	309	74	38	961
Wash-stands. Supply and drain pipe connection for	W. D. Schuyler	355,345	Jan. 4	75	20, 21	38	16
Wash-tub	F. Brandt	360,991	Apr. 12	863	219	39	164
Washer:							
See Automatic washer. Photographic-print							
Can-washer. washer.							
Clothes-washer. Street-washer.							
Washer-cutter	J. Burger	373,126	Nov. 15	1273	338	41	724
Washing and bleaching. Apparatus for	J. Meikle	366,335	July 12	804	217	40	159
Washing and wringing machine. Combined	J. H. Helms	360,524	Apr. 5	193	47	39	38
Washing clothes. Apparatus for	G. Hargreaves	360,014	Mar. 29	2396	606	38	1381
Washing compound	P. Brentini	360,948	Apr. 12	792	.....	39	153
Washing compound	J. K. McWhorter	365,269	June 21	1549	.....	39	1393
Washing-fluid	M. E. Minnick	359,090	Mar. 8	972	.....	38	1089
Washing-fluid	W. A. Putnam	363,764	May 24	2410	.....	39	952
Washing-machine	J. J. Andrews	372,588	Nov. 1	448	120	41	555
Washing-machine	D. C. Barnard and E. L. Wallace	371,730	Oct. 18	1416	366	41	297
Washing-machine	H. Bauerfeind	369,495	Sept. 6	245	69	40	1080
Washing-machine	A. Berdan	369,906	Sept. 13	834	221	40	1201
Washing-machine	F. P. Bickel	361,919	Apr. 26	2196	{ 569 570 }	{ 39 }	432
Washing-machine	A. J. Bigelow	358,329	Feb. 22	2288	603	38	871
Washing-machine	A. L. Burke	371,546	Oct. 18	1143	298	41	241
Washing-machine	A. Burnett	374,141	Nov. 29	2781	747	41	1029
Washing-machine	J. P. Caldwell and J. C. Wolfe	372,114	Oct. 25	1992	511	41	413
Washing-machine	G. G. Chamberlain and L. P. Cline	370,854	Oct. 4	151	41	41	30
Washing-machine	A. W. Chamberlin	361,612	Apr. 19	1740	449	39	340
Washing-machine	T. J. Christy	363,046	May 17	1396	369	39	748
Washing-machine	J. C. Cropper	371,125	Oct. 4	558	142	41	111
Washing-machine	R. M. Daniels	360,421	Apr. 5	26	8	39	7
Washing-machine	R. R. Davis	368,383	Aug. 16	1505	401	40	755
Washing-machine	J. W. Dunckhorst	368,521	Aug. 16	1713	457	40	794
Washing-machine	A. Dunlop and A. Baley	360,003	Mar. 29	2369	598	38	1375
Washing-machine	N. D. Fairchild	362,372	May 3	421	117	39	557
Washing-machine	J. B. Fauntleroy and C. S. Osborn	364,000	May 31	2754	714	39	1022
Washing-machine	W. I. Fitch, W. W. Weisell, and L. S. Kapp	375,278	Dec. 20	1594	418	41	1372
Washing-machine	W. Fitzpatrick	357,076	Feb. 1	470	125	38	509
Washing-machine	J. M. Gilman	357,479	Feb. 8	1057	280	38	627
Washing-machine	H. C. Glinzmann	365,594	June 28	2048	534	39	1501

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Washing-machine.....	A. Green	356,832	Feb. 1	119	33	38	445
Washing-machine.....	S. Hake	366,216	July 12	640	174	40	129
Washing-machine.....	H. R. Hamer	358,264	Feb. 22	2202	580	38	854
Washing-machine.....	B. R. Hand	362,740	May 10	956	260	39	658
Washing-machine.....	T. Hand	363,742	May 24	2378	{ 617 618 }	{ 39 39 }	946
Washing-machine.....	F. D. Harding	367,621	Aug. 2	384	109	40	525
Washing-machine.....	G. Hargreaves	361,695	Apr. 26	1872	485	39	374
Washing-machine.....	H. Hassenpflug	360,688	Apr. 5	412	106	39	77
Washing-machine.....	E. D. Hastings	370,391	Sept. 27	1556	417	40	1351
Washing-machine.....	N. H. Hawkins	363,462	May 24	1961	513	39	865
Washing-machine.....	J. Heavilin	363,824	May 31	2495	648	39	974
Washing-machine.....	D. K. Hickok	366,665	July 19	1260	336	40	256
Washing-machine.....	W. Hodge	362,007	Apr. 26	2333	608	39	455
Washing-machine.....	G. Hunt	357,601	Feb. 15	1255	329	38	674
Washing-machine.....	W. J. Hunt	371,140	Oct. 4	580	148	41	114
Washing-machine.....	T. Jacoby	361,163	Apr. 12	1122	284	39	213
Washing-machine.....	J. P. Kaeszmann	358,275	Feb. 22	2218	{ 585 586 }	{ 38 38 }	857
Washing-machine.....	C. P. Keller	359,977	Mar. 22	2326	585	38	1361
Washing-machine.....	S. H. Kerr	356,648	Jan. 25	1937	507	38	392
Washing-machine.....	J. Kroness and W. Wuest	359,161	Mar. 8	1062	277	38	1107
Washing-machine.....	J. F. Kuhlman	358,400	Feb. 22	2385	634	38	889
Washing-machine.....	G. Laube and O. R. Smith	356,000	Jan. 11	1008	265	38	204
Washing-machine.....	H. Lawrence	366,411	July 12	894	241	40	177
Washing-machine.....	E. K. Lecrone	362,019	Apr. 26	2350	612	39	458
Washing-machine.....	G. W. Livingston	358,681	Mar. 1	390	93	38	976
Washing-machine.....	A. Magee and D. C. Lee	359,933	Mar. 22	2254	567	38	1347
Washing-machine.....	J. C. McCandliss	356,257	Jan. 18	1368	362	38	278
Washing-machine.....	P. McCulloch	374,128	Nov. 29	2760	742	41	1025
Washing-machine.....	G. M. Miller	364,723	June 14	726	193	39	1233
Washing-machine.....	A. L. Montague	361,311	Apr. 19	1332	342	39	264
Washing-machine.....	I. V. Montanye	369,609	Sept. 6	410	115	40	1113
Washing-machine.....	M. Nations	370,079	Sept. 20	1108	294	40	1258
Washing-machine.....	J. W. Neff	363,667	May 24	2267	588	39	925
Washing-machine.....	E. E. Newton and W. Fitzpatrick	357,022	Feb. 1	387	{ 104 105 }	{ 38 38 }	494
Washing-machine.....	J. E. North	360,461	Apr. 5	94	24	39	18
Washing-machine.....	F. E. Oilar and J. Cory	371,852	Oct. 18	1598	{ 412 413 }	{ 41 41 }	333
Washing-machine.....	T. Oliver	370,812	Oct. 4	82	22	41	18
Washing-machine.....	O. Patrick	371,351	Oct. 11	873	224	41	178
Washing-machine.....	L. Pentz	357,966	Feb. 15	1776	466	38	770
Washing-machine.....	J. W. Roberts	359,519	Mar. 15	1592	408	38	1211
Washing-machine.....	J. Schrib	370,418	Sept. 27	1595	426	40	1358
Washing-machine.....	F. Schumpe and F. Mollenkamp	357,236	Feb. 8	725	188	38	564
Washing-machine.....	L. N. Senter	371,981	Oct. 25	1784	{ 462 463 }	{ 41 41 }	378
Washing-machine.....	J. M. Shoaf	359,472	Mar. 15	1510	386	38	1197
Washing-machine.....	H. C. Smith	355,350	Jan. 4	83	22	38	17
Washing-machine.....	C. W. Snyder	360,059	Mar. 29	2468	628	38	1394
Washing-machine.....	H. R. Spalding	367,249	July 26	2062	556	40	414
Washing-machine.....	J. E. Stair	372,241	Oct. 25	2184	560	41	450
Washing-machine.....	W. H. Stigenwalt	373,861	Nov. 29	2382	641	41	952
Washing-machine.....	I. B. Stillman	372,877	Nov. 8	906	244	41	646
Washing-machine.....	H. A. Stumpf	357,244	Feb. 8	734	191	38	566
Washing-machine.....	G. S. Tougas and F. Fournier	370,908	Oct. 4	247	63	41	49
Washing-machine.....	C. W. Turner, Jr	357,744	Feb. 15	1476	387	38	714
Washing-machine.....	G. H. Waldo	359,479	Mar. 15	1523	390	38	1199
Washing-machine.....	S. W. Warren	371,335	Oct. 11	937	241	41	190
Washing-machine.....	W. E. Washburn	358,310	Feb. 22	2264	597	38	866
Washing-machine.....	M. V. B. Watson	365,210	June 21	1456	384	39	1376
Washing-machine.....	W. W. Weisell	362,561	May 10	689	193	39	610
Washing-machine.....	T. F. White	360,498	Apr. 5	148	37	39	28
Washing-machine.....	G. R. Whiteside	358,093	Feb. 22	1958	517	38	809
Washing-machine.....	J. L. Wilber	369,759	Sept. 13	608	164	40	1158
Washing-machine.....	G. W. Wilson	364,879	June 14	975	256	39	1277
Washing-machine.....	H. T. Wilson	370,584	Sept. 27	1856	493	40	1404
Washing-machine.....	L. Wittman	359,195	Mar. 8	1107	288	38	1115
Washing-machine.....	T. W. Wood	359,238	Mar. 8	1168	304	38	1125
Washing-machine.....	B. C. Woodrome	375,664	Dec. 27	2130	{ 553 554 }	{ 41 41 }	1482
Washing-machine. Pounder	J. T. Varney	370,834	Oct. 4	112	30	41	23
Washing-machine. Roller	J. H. Carlile	367,700	Aug. 2	517	142	40	548
Washing-machine. Steam	H. W. Conkling and W. M. Fisher	362,146	May 3	129	39	39	498
Washing-machine. Steam	J. A. Johnston	366,220	July 12	644	175	40	130
Washing-machines. Gearing for	G. C. Harlin	367,039	July 26	1753	473	40	356
Washing purposes. Hand-rubber for	B. McGovern and J. H. Hewit	359,268	Mar. 15	1209	315	38	1141
Watch	F. Fitt	358,925	Mar. 8	759	189	38	1049
Watch	D. Gruen	372,261	Oct. 25	2216	567	41	456
Watch	W. Hanson	371,139	Oct. 4	576	147	41	114
Watch	G. E. Hart	364,105	May 31	2893	750	39	1050
Watch	A. O. Jennings	372,754	Nov. 8	691	191	41	610
Watch	A. Junghaus	370,146	Sept. 20	1210	{ 320 321 }	{ 40 40 }	1277
Watch	A. H. Potter	360,475	Apr. 5	109	28	39	21
Watch	A. H. Potter	360,819	Apr. 5	594	156	39	112
Watch	F. B. Von Wechmar	365,032	June 14	1196	315	39	1317
Watch and clock pinions. Facing	W. B. Learned	358,402	Feb. 22	2388	634	38	890
Watch arbor and pivot	G. S. Heath and A. F. Champlin	361,946	Apr. 26	2232	581	39	439
Watch-balances and hair-springs. Testing and grading	E. A. Marsh, J. Logan, and D. H. Church	360,234	Mar. 29	2752	698	38	1446
Watch-balances. Machine for drilling and tapping	E. A. Marsh	357,398	Feb. 8	941	{ 247 248 }	{ 38 38 }	606

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Watch-balances. Machine for turning and polishing } the rims of	E. A. Marsh	369,866	Sept. 13	769	{ 205 206	{ 40	1189
Watch-balances. Manufacture of	G. E. Hart	364,107	May 31	2896	751	39	1050
Watch-barrel	F. Parker	364,370	June 7	222	63	39	1131
Watch-case	E. K. Boyd	362,712	May 10	914	249	39	651
Watch-case	E. C. Chappatte	373,011	Nov. 8	1101	294	41	682
Watch-case	E. C. Chappatte	373,723	Nov. 22	2183	584	41	907
Watch-case	R. E. Fenner	365,981	July 5	319	84	40	61
Watch-case	C. K. Giles	363,817	May 31	2486	645	39	972
Watch-case	C. K. Giles	365,984	July 5	323	86	40	62
Watch-case	C. K. Giles	365,985	July 5	325	86	40	62
Watch-case	C. K. Giles	365,986	July 5	325	86	40	62
Watch-case	C. K. Giles	365,987	July 5	327	86	40	62
Watch-case	C. K. Giles	365,988	July 5	328	87	40	63
Watch-case	C. K. Giles	365,990	July 5	331	87	40	63
Watch-case	C. K. Giles	367,288	July 26	2126	572	40	425
Watch-case	E. F. Heffernan	373,364	Nov. 15	1649	436	41	702
Watch-case	W. K. Kennedy	372,540	Nov. 1	378	102	41	542
Watch-case	J. C. Landmann	357,395	Feb. 8	938	247	38	605
Watch-case	A. Lorsch	361,168	Apr. 12	1129	285	39	214
Watch-case	C. F. Morrill	358,403	Feb. 22	2389	635	38	890
Watch-case	C. F. Morrill	360,105	Mar. 29	2553	649	38	1410
Watch-case	C. F. Morrill	369,871	Sept. 13	784	209	40	1191
Watch-case	C. F. Morrill	372,558	Nov. 1	405	109	41	548
Watch-case	D. O'Hara	359,885	Mar. 22	2181	549	38	1334
Watch-case	G. C. Smith	371,282	Oct. 11	776	199	41	160
Watch-case and movement-plate. Combined	A. H. Potter	360,477	Apr. 5	113	28	39	22
Watch-case bezel	W. Lang	365,825	July 5	91	26	40	20
Watch-case center and pendant	A. H. Potter	360,478	Apr. 5	114	28	39	22
Watch-case centers. Manufacture of rings for	F. Ecaubert	362,615	May 10	774	213	39	624
Watch-case pendant	C. K. Giles	357,195	Feb. 8	676	175	38	555
Watch-case pendant	E. F. Margot	359,397	Mar. 15	1404	359	38	1176
Watch-case pendants. Manufacture of	G. E. Hart	364,108	May 31	2896	751	39	1051
Watch-case spring	N. J. Felix	361,752	Apr. 26	1951	507	39	387
Watch-case spring	N. J. Felix	372,018	Oct. 25	1837	476	41	387
Watch-case spring	A. Humbert	374,535	Dec. 6	524	137	41	1147
Watch-case spring	G. A. McCay	368,100	Aug. 9	1105	293	40	669
Watch-cases. Machine for making	E. Keller	366,778	July 19	1418	379	40	284
Watch-cases. Process of manufacturing	W. Lang	365,826	July 5	93	26	40	20
Watch-crowns. Manufacture of	C. H. Yarrington	356,862	Feb. 1	167	45	38	453
Watch-dial	G. E. Hart	364,109	May 31	2898	752	39	1051
Watch-dials. Making enameled	E. C. Fitch	366,085	July 5	454	123	40	86
Watch-dust-band	D. Gruen	361,625	Apr. 19	1769	457	39	347
Watch-escapement	A. H. Potter	360,474	Apr. 5	107	27	39	21
Watch for the blind	S. F. Adam	360,641	Apr. 5	354	88	39	67
Watch-guard	T. G. Daly	358,020	Feb. 22	1848	489	38	789
Watch-key	G. S. and W. W. Conover	360,563	Apr. 5	252	62	39	49
Watch-key	G. Hoffmann	361,627	Apr. 19	1772	458	39	348
Watch-key and chain-bar. Combined	S. L. Swasey	361,655	Apr. 19	1811	469	39	354
Watch-mainsprings. Manufacture of	F. Sedgwick	363,550	May 24	2101	545	39	893
Watch-makers and others. Material-case for	G. Hoffmann	357,006	Feb. 1	369	98	38	491
Watch-maker's tool	J. B. Rose	358,885	Mar. 8	706	174	38	1038
Watch-maker's tweezers	L. Hirsch	369,182	Aug. 30	2640	701	40	991
Watch-movement box	C. K. Colby	355,509	Jan. 4	277	73	38	56
Watch-movement box	A. Troller	359,946	Mar. 22	2274	511	38	1351
Watch-movement frame and case-body. Combined	A. H. Potter	360,476	Apr. 5	111	28	39	22
Watch-movement plate	G. E. Hart	364,110	May 31	2899	752	39	1051
Watch-pendant	W. S. Richardson	372,868	Nov. 8	886	237	41	643
Watch. Pendant winding and setting	D. H. Church	357,906	Feb. 15	1691	441	38	754
Watch. Pendant winding and setting	C. Kistler	371,595	Oct. 18	1211	316	41	254
Watch-pinion-cutting machine	E. A. Marsh	359,323	Mar. 15	1284	{ 333 334 335	{ 38	1154
Watch plates and cases. Manufacture of	A. H. Potter	360,818	Apr. 5	593	155	39	112
Watch-protector	M. Marx	357,399	Feb. 8	945	248	38	606
Watch-rack	J. E. Gause	358,193	Feb. 22	2113	558	38	837
Watch-regulator	J. W. Hurd	369,006	Aug. 30	2404	638	40	945
Watch-regulator	C. E. Jones	365,688	June 28	2182	{ 569 570	{ 39	1526
Watch-regulator	A. Platt	357,333	Feb. 8	851	222	38	588
Watch-regulators. Screw-clamp pin for	W. Weiland	362,559	May 10	688	192	39	610
Watch. Repeating-	G. Aubert	368,904	Aug. 23	2250	{ 598 599	{ 40	906
Watch. Repeating-	A. P. Pfister	368,002	Aug. 9	974	{ 261 262	{ 40	644
Watch-safeguard	S. C. Watts	355,576	Jan. 4	366	98	38	73
Watch safety-guard	J. Lehr	364,528	June 7	468	126	39	1175
Watch-springs. Apparatus for tempering	F. Sedgwick	369,560	Sept. 6	336	93	40	1098
Watch. Stem-winding	J. Bachner	355,752	Jan. 11	633	165	38	134
Watch. Stem-winding	J. Bachner	358,424	Mar. 1	2	1	38	903
Watch. Stem-winding	L. C. Favre	358,969	Mar. 8	815	206	38	1059
Watch. Stem-winding	G. E. Hart	364,015	May 31	2777	719	39	1027
Watch. Stem-winding	G. E. Hart	364,106	May 31	2894	751	39	1050
Watch. Stem-winding	W. W. Hastings	365,595	June 28	2049	535	39	1501
Watch. Stem-winding	E. Kuhn	357,210	Feb. 8	692	179	38	558
Watch. Stem-winding	S. C. Smith	374,760	Dec. 13	843	221	41	1221
Watch. Stem winding and setting	J. Bachner	371,539	Oct. 18	1136	296	41	240
Watch. Stem winding and setting	B. R. Baughen	359,834	Mar. 22	2091	529	33	1318
Watch. Stem winding and setting	S. T. J. Byam	260,415	Apr. 5	17	5, 6	39	5
Watch. Stem winding and setting	D. H. Church	370,929	Oct. 4	285	70	41	57
Watch. Stem winding and setting	G. F. Johnson	356,134	Jan. 18	1211	321	38	248
Watch. Stem winding and setting	J. Johnson	357,322	Feb. 8	838	219	38	586
Watch. Stem winding and setting	W. H. Wells	356,021	Jan. 11	1033	272	38	209
Watch. Stem winding and setting	P. H. Wheeler and H. Barbier	361,658	Apr. 19	1814	470	39	355

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Watch. Stop.....	A. F. Goy-Blanc.....	356,362	Jan. 18	1528	{ 401 402 }	{ 38 }	307
Watch. Stop.....	A. Lecoultre.....	355,403	Jan. 4	146	38, 39	38	30
Watch. Stop.....	H. A. Lugin.....	360,777	Apr. 5	539	140	39	101
Watch. Stop.....	G. B. St. John.....	360,828	Apr. 5	609	160	39	114
Watches. Adjusting hair-springs of.....	L. R. Kaufmann.....	360,701	Apr. 5	439	112	39	81
Watches and chronometers. Compensation-balance for.....	C. A. Paillard.....	359,093	Mar. 8	975	250	38	1090
Watches and clocks. Mainspring brace and fastener for.....	C. T. Higginbotham.....	374,359	Dec. 6	274	73	41	1098
Watches. Click-spring for.....	B. Le Coultre.....	358,207	Feb. 22	2129	562	38	840
Watches. Device for setting ruby-pins in.....	D. H. Abney.....	371,019	Oct. 4	417	105	41	83
Watches. Forming bearings for.....	F. P. Bonneau.....	372,113	Oct. 25	1991	511	41	413
Watches. Forming pendants for.....	H. Lefort.....	372,158	Oct. 25	2058	527	41	425
Watches. Jewel-support for the balance-staffs of.....	H. Knickman.....	372,269	Oct. 25	2223	570	41	458
Watches. Pendant-stem for.....	H. Rohrdantz.....	361,597	Apr. 19	1720	444	39	336
Watches. Push-button for repeating.....	C. Morlet.....	367,995	Aug. 9	964	259	40	642
Watches. Regulator-pin for.....	A. Van Strait.....	361,850	Apr. 26	2101	545	39	414
Watches. Safety-pinion for.....	B. Le Coultre.....	358,208	Feb. 22	2130	562	38	841
Watches. Transparent dial for.....	C. Humbert, Fils.....	363,959	May 31	2702	699	39	1010
Water. Apparatus for purifying.....	J. W. Hyatt.....	366,171	July 5	571	153	40	108
Water-closet.....	J. Clifford.....	357,908	Feb. 15	1693	441	38	755
Water-closet.....	R. A. and R. C. Hill.....	358,929	Mar. 8	764	190	38	1049
Water-closet.....	G. H. Holgate.....	365,920	July 5	234	62	40	46
Water-closet.....	P. G. Hubert.....	375,068	Dec. 20	1312	343	41	1316
Water-closet.....	S. G. McFarland.....	355,831	Jan. 11	748	196	38	153
Water-closet.....	W. F. North.....	362,034	Apr. 26	2368	617	39	461
Water-closet.....	J. Park.....	365,937	July 5	259	68	40	50
Water-closet.....	F. Scheier.....	367,065	July 26	1789	483	40	363
Water-closet.....	P. White.....	357,803	Feb. 15	1555	405	38	729
Water closet.....	P. White.....	359,913	Mar. 22	2221	{ 558 559 }	{ 38 }	1341
Water-closet apparatus.....	W. Bunting, Jr.....	360,337	Mar. 29	2891	736	38	1472
Water-closet basin.....	H. C. Weedon.....	362,800	May 10	1047	285	39	675
Water-closet cisterns. Valve for.....	T. McHugh.....	365,617	June 28	2077	541	39	1507
Water-closet flushing-tank.....	J. and G. Douglas.....	369,843	Sept. 13	737	196	40	1183
Water-closet flushing-tank.....	H. J. Frost.....	356,713	Jan. 25	2016	530	38	407
Water-closet for ships, &c.....	J. J. De Rycke.....	368,329	Aug. 16	1437	382	40	741
Water-closet or analogous structure.....	P. White.....	363,566	May 24	2124	550	39	898
Water-closet reservoirs. Valve and valve-operating mechanism for.....	W. S. Cooper.....	371,430	Oct. 11	986	257	41	200
Water-closet seat.....	W. Burrows.....	362,424	May 3	494	140	39	571
Water-closet seat.....	M. W. Griswold.....	368,717	Aug. 23	2000	529	40	857
Water-closet service-box.....	D. Wellington.....	370,433	Sept. 27	1618	432	40	1362
Water-closet. Siphon.....	J. E. Boyle.....	372,199	Oct. 25	2119	{ 544 555 }	{ 41 }	437
Water-closet supply-tank.....	J. Clifford.....	360,658	Apr. 5	379	96	39	72
Water-closet tank.....	J. Collett.....	365,049	June 21	1224	323	39	1334
Water-closet-tank flushing apparatus.....	G. C. Phillips.....	364,289	June 7	116	33	39	1111
Water-closet valve.....	J. F. Bryant.....	369,629	Sept. 6	441	123	40	1119
Water-closet valve.....	W. S. Cooper.....	371,431	Oct. 11	988	257	41	201
Water-closet valve.....	H. Costello.....	358,018	Feb. 22	1846	488	38	788
Water-closet valve and reservoir.....	W. S. Cooper.....	373,015	Nov. 8	1109	295	41	682
Water-closet vaults, &c. Waste and flushing valve for.....	V. and J. Royle, Jr.....	359,743	Mar. 22	1945	493	38	1292
Water-closet water-supply apparatus.....	T. McHugh.....	362,897	May 10	1180	315	39	699
Water-closets and other sanitary appliances. Flushing apparatus for.....	O. J. McGann.....	357,218	Feb. 8	701	181	38	560
Water-closets. Floor-connection for.....	B. Havanagh.....	363,956	May 31	2696	698	39	1010
Water-closets. Flushing apparatus for.....	J. E. Boyle. (Reissue).....	10,826	Apr. 19	1823	{ 472 473 }	{ 39 }	357
Water-closets. Flushing apparatus for.....	P. J. Madden.....	374,310	Dec. 6	202	54	41	1084
Water-closets. Flushing apparatus for.....	W. H. Newell.....	359,461	Mar. 15	1492	382	38	1193
Water-closets. Flushing apparatus for siphon.....	D. D. Buick.....	372,964	Nov. 8	1029	275	41	668
Water-closets. Water-supply-regulating apparatus for.....	W. H. Bate.....	361,203	Apr. 12	1183	299	39	224
Water-cooler and refrigerator. Combined.....	P. H. Storch.....	355,731	Jan. 11	605	158	38	128
Water. Deodorizing tank.....	J. Van Ruymbeke.....	362,235	May 3	243	.....	39	520
Water distributing, collecting, and filtering apparatus.....	J. S. Marsh.....	367,051	July 26	1770	478	40	359
Water-elevator.....	G. M. Atherton.....	357,971	Feb. 15	1782	{ 467 468 }	{ 38 }	771
Water-elevator.....	L. A. Brigel.....	355,582	Jan. 4	372	100	38	75
Water-elevator.....	S. Brown.....	373,962	Nov. 29	2525	679	41	979
Water-elevator.....	R. M. Goodwyne.....	358,152	Feb. 22	2048	{ 538 539 }	{ 38 }	824
Water-elevator.....	G. W. Mefferd.....	366,858	July 19	1526	409	40	304
Water-elevator.....	M. Stevens.....	375,215	Dec. 20	1516	398	41	1358
Water-elevator chain.....	W. D. Mayfield.....	367,349	July 26	2213	594	40	441
Water-engine.....	G. T. Pillings.....	361,182	Apr. 12	1147	289	39	218
Water-engine.....	G. and W. Ross.....	375,200	Dec. 20	1495	392	41	1353
Water-gage.....	T. G. Lovegrove.....	374,606	Dec. 13	632	165	41	1178
Water-gage glass tubes. Float for.....	L. Campbell.....	362,719	May 10	926	253	39	654
Water-gage. Safety.....	P. Barclay.....	369,904	Sept. 13	832	220	40	1201
Water-gage. Safety.....	A. H. Fowler.....	364,756	June 14	788	208	39	1243
Water-gage. Safety.....	J. Graham.....	372,848	Nov. 8	858	229	41	638
Water-gage. Safety.....	J. B. Little.....	363,071	May 17	1426	377	39	753
Water-gage. Safety.....	W. E. Roche.....	356,965	Feb. 1	311	84	38	480
Water-gages. Float for.....	T. W. Maxey.....	358,285	Feb. 22	2233	589	38	860
Water-heater.....	T. Fairbanks.....	361,003	Apr. 12	883	223	39	167
Water-heater.....	J. Helm and W. H. Sweaney.....	361,516	Apr. 19	1600	414	39	315
Water-heater.....	M. Müller.....	365,016	June 14	1170	307	39	1312
Water-heater.....	A. Spence.....	359,105	Mar. 8	997	{ 256 257 }	{ 38 }	1094

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Water-heater.....	H. Stutsman.....	369,891	Sept. 13	813	216	40	1197
Water heater and circulator.....	T. R. Chase.....	369,043	Aug. 30	2456	{ 651 652 }	{ 40	954
Water heater and circulator. Combined.....	T. R. Chase.....	366,074	July 5	443	120	40	84
Water heater and purifier.....	A. H. Crockford.....	373,647	Nov. 22	2080	{ 555 556 }	{ 41	886
Water-heater. Circulating.....	T. W. Rees.....	373,754	Nov. 22	2223	595	41	915
Water-heater or steam-generator.....	H. M. Young.....	373,576	Nov. 22	1977	525	41	864
Water in pipes. Apparatus for regulating the tem- perature and flow of.....	E. A. Newman.....	372,232	Oct. 25	2171	{ 557 558 }	{ 41	448
Water in reservoirs. Aeration of.....	J. W. Hyatt.....	370,016	Sept. 13	1016	268	40	1233
Water. Injector for aeration of.....	J. W. Hyatt.....	366,169	July 5	569	153	40	107
Water-level alarm.....	J. L. W. Olsen.....	361,968	Apr. 26	2278	592	39	445
Water-level indicator. Magnetic.....	J. J. Ghegan.....	355,815	Jan. 11	727	190	38	150
Water-mains. Machine for tapping.....	A. and E. Raffour.....	372,929	Nov. 8	971	{ 263 264 }	{ 41	658
Water-meter. Diaphragm.....	J. Thomson.....	358,508	Mar. 1	123	{ 30 31 32 }	{ 38	926
Water-meter. Disk.....	J. Thomson and F. Lambert.....	375,023	Dec. 20	1247	326	41	1304
Water-meter. Oscillating.....	R. J. Rogers.....	373,608	Nov. 22	2033	{ 537 538 }	{ 41	874
Water-meter. Piston.....	H. C. Ahrbecker.....	363,973	May 31	2722	705	39	1016
Water-meter. Piston.....	J. Dooling.....	374,241	Dec. 6	101	25	41	1066
Water-meter. Piston.....	F. L. Sylvester.....	365,323	June 21	1626	424	39	1407
Water-meter. Rotary.....	J. W. Hopkins.....	355,821	Jan. 11	735	192	38	151
Water-meter. Rotary.....	L. H. Nash. (Reissue).....	10,806	Feb. 8	1197	{ 314 315 }	{ 38	654
Water-meter. Rotary.....	J. Thomson.....	372,047	Oct. 25	1891	488	41	395
Water-meter. Rotary.....	J. A. Tilden.....	371,643	Oct. 18	1277	331	41	267
Water-meter. Rotary.....	J. A. Tilden.....	372,440	Nov. 1	230	64	41	513
Water-meter. Rotary.....	J. A. Tilden.....	375,108	Dec. 20	1374	357	41	1328
Water-meter. Rotary.....	F. W. Tuerk, Jr.....	362,047	Apr. 26	2382	{ 621 622 }	{ 39	464
Water-meter with revolving non-rotating piston.....	J. A. Tilden.....	357,159	Feb. 1	618	159	38	535
Water-meters. Magnetic register-connection for.....	A. S. Dietzman and G. Cressey.....	369,595	Sept. 6	386	107	40	1108
Water-motor.....	H. Geer.....	356,873	Feb. 1	186	51	38	456
Water-motor.....	F. A. Hinds.....	368,089	Aug. 9	1090	290	40	667
Water-motor.....	F. A. Hinds.....	368,090	Aug. 9	1092	290	40	667
Water-motor.....	W. J. Mingle.....	357,220	Feb. 8	703	181	38	500
Water-motor.....	P. Murray, Jr.....	363,534	May 24	2079	{ 538 539 }	{ 39	889
Water. Obtaining cyanide and ferro-cyanide from tank.....	J. Van Ruymbeke.....	362,236	May 3	244	.....	39	520
Water or gas pipes. Stop-cock box for.....	L. P. Reichert and A. Fuller.....	358,696	Mar. 1	412	99	38	980
Water or other closet, lavatory, &c.....	P. Everitt.....	373,135	Nov. 15	1287	{ 342 343 }	{ 41	726
Water-overflows. Electrical method of detecting.....	L. Weil.....	357,056	Feb. 1	440	{ 117 118 }	{ 38	503
Water-pipes. Anti-freezing apparatus for.....	E. A. Newman.....	360,106	Mar. 29	2554	{ 649 650 }	{ 38	1410
Water-pipes. Anti-freezing apparatus for.....	E. A. Newman.....	360,107	Mar. 29	2558	{ 650 651 }	{ 38	1410
Water-pipes. Anti-freezing device for.....	B. M. Harney.....	368,888	Aug. 23	2228	593	40	902
Water-pipes. Anti-freezing device for.....	D. McDonald.....	369,199	Aug. 30	2660	707	40	995
Water-pipes. Automatic electric cut-off for.....	L. Weil.....	357,055	Feb. 1	440	117	38	503
Water-pipes by automatic cocks. Device for cush- ioning the shock in.....	J. G. Richert.....	360,326	Mar. 29	2877	732	38	1470
Water-pipes. Electrical apparatus for voiding.....	J. W. Kent and R. Orr.....	368,674	Aug. 23	1926	512	40	845
Water-pipes from freezing. Device for preventing.....	F. Steinkoenig.....	357,241	Feb. 8	732	190	38	565
Water-power.....	J. B. Culver and W. Crow.....	370,323	Sept. 20	1449	389	40	1323
Water-proof bonnet or hat.....	A. B. Floyd.....	366,623	July 12	1200	321	40	237
Water-proof. Composition for rendering leather, cloth, &c.....	C. E. Haynes.....	374,675	Dec. 13	724	.....	41	1197
Water-proof fabrics. Making rubber-striped.....	T. H. Videto.....	375,234	Dec. 20	1536	.....	41	1362
Water-proof garment.....	J. F. Carter.....	360,851	Apr. 12	646	171	39	127
Water-proof garment.....	H. Judson.....	373,895	Nov. 29	2436	{ 853 854 }	{ 41	962
Water-proof garment.....	H. C. Norton.....	367,921	Aug. 9	850	230	40	622
Water-proof garment.....	H. C. Norton.....	375,504	Dec. 27	1892	495	41	1439
Water-proof garment.....	M. R. Yeomans.....	365,036	June 14	1201	317	39	1318
Water-proof gossamer fabric.....	T. H. Videto.....	375,233	Dec. 20	1535	403	41	1361
Waterproofing compound.....	F. Kreutzer.....	370,545	Sept. 27	1789	.....	40	1393
Waterproofing leather soles.....	G. E. Käsemödel.....	360,596	Apr. 5	299	.....	39	57
Water. Purifying.....	J. W. Hyatt.....	369,288	Aug. 30	2777	740	40	1018
Water. Purifying.....	C. C. Peck.....	373,802	Nov. 22	2297	615	41	924
Water. Purifying.....	W. Tweeddale.....	360,126	Mar. 29	2595	.....	38	1416
Water-purifying apparatus.....	J. W. Mackintosh.....	370,798	Oct. 4	66	17	41	15
Water-purifying compound.....	P. A. Maignen.....	355,773	Jan. 11	664	.....	38	139
Water-raising apparatus.....	W. C. Wells.....	372,097	Oct. 25	1970	{ 506 507 }	{ 41	409
Water regulator and accumulator for house purposes.....	A. J. L. Loretz.....	357,128	Feb. 1	574	148	38	537
Water-service system and appliances for buildings.....	J. Howes.....	360,697	Apr. 5	433	111	39	80
Water-signal. Automatic.....	W. H. Jesselyn.....	361,824	Apr. 26	2054	534	39	406
Water-sprinkler.....	R. Exley.....	375,445	Dec. 27	1822	476	41	1425
Water-supply system.....	C. H. Godfrey.....	368,942	Aug. 30	2317	616	40	927
Water-tank.....	C. C. Worthington.....	373,546	Nov. 22	1935	513	41	857
Water-tube boiler. Sectional.....	E. J. Moore.....	371,616	Oct. 18	1242	323	41	260
Water-waste preventer. Siphon.....	M. Syer.....	355,800	Jan. 11	705	184	38	146
Water-wheel.....	J. S. Teed.....	361,556	Apr. 19	1650	427	39	325
Water-wheel bucket.....	L. Biggio.....	356,977	Feb. 1	329	88	38	483
Water-wheel bucket.....	H. and W. J. Richards, Jr.....	361,719	Apr. 26	1905	494	39	379
Water-wheel or ship's propeller.....	M. R. Ruble.....	357,859	Feb. 15	1632	424	38	743
Water-wheel. Turbine.....	F. R. Estlow.....	355,391	Jan. 4	131	35	38	27

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.	Vol.	Page.
Water-wheel. Turbine.....	P. H. Holmes.....	356,124	Jan. 18	1199	318	38	245
Watering-pot.....	H. S. Reynolds.....	359,889	Mar. 22	2185	{ 550 551 }	{ 38 38 }	1335
Watering-troughs. Means for automatically supply- ing.....	J. B. and D. L. Speicher.....	367,456	Aug. 2	135	39	40	477
Weaner. Calf.....	M. H. Hickey and W. R. Remme.....	367,629	Aug. 2	397	111	40	527
Weaner. Calf.....	R. L. Rickman.....	365,538	June 28	1958	509	39	1485
Weaner. Calf.....	R. L. Rickman.....	374,005	Nov. 29	2584	694	41	991
Weather-board gage.....	J. H. Smith.....	364,056	May 31	2826	733	39	1037
Weather-board holder.....	A. Scott.....	358,699	Mar. 1	416	101	38	981
Weather-boards. Adjustable supporting-bracket for.....	C. Eby.....	368,574	Aug. 23	1791	476	40	817
Weather-boarding.....	J. E. Donaldson.....	368,387	Aug. 16	1510	402	40	756
Weather-boarding. Machine for making metallic.....	L. L. Sagendorph.....	362,117	May 3	92	28, 29	39	491
Weather-boarding tool.....	G. W. Pelton.....	365,857	July 5	141	37	40	29
Weather-strip.....	W. R. Allan.....	361,915	Apr. 26	2192	568	39	431
Weather-strip.....	W. S. Carnovsky.....	371,421	Oct. 11	971	252	41	197
Weather-strip.....	A. E. Duncan.....	365,434	June 28	1798	468	39	1451
Weather-strip.....	C. W. Gift.....	368,917	Aug. 23	2275	605	40	911
Weather-strip.....	S. C. Gooch.....	375,619	Dec. 27	2065	537	41	1469
Weather-strip.....	C. Guyer and P. Brosious.....	367,755	Aug. 2	607	164	40	565
Weather-strip.....	D. Harkrader.....	361,008	Apr. 12	889	224	39	168
Weather-strip.....	G. Hull and H. Kirk.....	362,964	May 17	1284	341	39	725
Weather-strip.....	C. H. James.....	368,151	Aug. 9	1174	313	40	682
Weather-strip.....	I. Martin.....	374,262	Dec. 6	127	33	41	1071
Weather-strip for doors.....	J. K. Patterson.....	372,084	Oct. 25	1954	503	41	406
Weather-strip for sashes or sliding doors.....	F. P. Stone.....	366,524	July 12	1050	285	40	208
Weather-strip for windows.....	G. W. Everett.....	360,801	Apr. 5	569	148	39	107
Weather-vane.....	L. W. Schaufuss.....	375,201	Dec. 20	1496	392	41	1353
Weather-warning indicator.....	F. J. Miller.....	373,299	Nov. 15	1543	407	41	772
Weaver's comb and reed-hook. Combined.....	S. Ball.....	362,700	May 10	903	246	39	649
Weaving mechanism. Cross.....	W. Evans.....	364,402	June 7	265	75, 76	39	1139
Weaving multiple-ply fabrics.....	H. Hardwick.....	359,862	Mar. 22	2149	.....	38	1328
Weaving thatching. Machine for.....	A. H. and E. C. Bales.....	365,424	June 28	1781	{ 463 464 }	{ 39 39 }	1449
Wedge for axes or other tools.....	G. W. Francis.....	364,238	June 7	55	16	39	1099
Wedge for tool-handles.....	G. P. Morrill.....	362,989	May 17	1313	348	39	731
Weed-cutter. Vineyard.....	J. Porteous.....	362,227	May 3	233	68	39	518
Weed-turner.....	J. T. Webb.....	366,543	July 12	1069	290	40	212
Weeder. Hand.....	H. W. McNeal.....	369,119	Aug. 30	2566	682	40	975
Weeding implement. Lawn.....	C. Clarke.....	357,907	Feb. 15	1692	441	38	754
Weigher. Automatic grain.....	E. A. Hoover.....	374,362	Dec. 6	278	74	41	1099
Weighing and package-filling machine. Automatic.....	C. C. Clawson.....	360,510	Apr. 5	167	42	39	32
Weighing and package-filling machine. Automatic.....	C. C. Clawson.....	360,511	Apr. 5	170	42, 43	39	33
Weighing and package-filling machine. Automatic.....	C. C. Clawson.....	360,513	Apr. 5	178	44	39	35
Weighing and package-filling machines. Feeding mechanism for automatic.....	C. C. Clawson.....	360,512	Apr. 5	176	43	39	34
Weighing and registering apparatus. Grain.....	B. B. Lee and J. Downs.....	367,985	Aug. 9	945	{ 255 256 }	{ 40 40 }	640
Weighing apparatus. Automatic grain.....	J. E. Simpson and J. H. Shaffer.....	368,310	Aug. 16	1415	374	40	737
Weighing apparatus. Grain.....	J. M. Burkley and H. F. Shannon.....	367,180	July 26	1951	526	40	393
Weighing apparatus. Grain.....	H. Hodges.....	360,154	Mar. 29	2636	666	38	1424
Weighing apparatus. Grain.....	G. P. Jameson.....	375,163	Dec. 20	1450	379	41	1343
Weighing apparatus. Grain.....	M. F. Thayer.....	363,436	May 24	1924	505	39	858
Weighing apparatus. Grain.....	L. C. Tryon.....	375,515	Dec. 27	1907	{ 499 500 }	{ 41 41 }	1442
Weighing, bagging, and registering apparatus. Au- tomatic grain.....	P. Allen.....	367,577	Aug. 2	323	93	40	513
Weighing-beam for testing-machines, scales, &c.....	C. E. Buzby.....	368,514	Aug. 16	1706	455	40	792
Weighing machine. Automatic grain.....	F. M. Gladish.....	364,407	June 7	280	78	39	1142
Weighing machine. Automatic grain.....	C. J. Hartley.....	368,946	Aug. 30	2321	617	40	928
Weighing machine. Automatic grain.....	V. Weber and J. R. Harrison.....	359,525	Mar. 15	1601	410	38	1213
Weighing machine. Automatic grain.....	V. Weber and J. R. Harrison.....	369,486	Sept. 6	294	66	40	1078
Weighing machine. Grain.....	J. B. Oyer.....	371,148	Oct. 4	589	151	41	116
Weighing-machine. Recording.....	C. C. Clawson.....	366,303	July 12	754	{ 204 205 }	{ 40 40 }	150
Weight and envelope sealer. Combined.....	H. J. Moore.....	360,458	Apr. 5	89	23	39	18
Weight-power.....	J. B. Sweetland.....	370,026	Sept. 13	1028	271	40	1235
Welding and cutting machine.....	J. M. Long.....	366,848	July 19	1513	405	40	302
Welding compound.....	H. G. Hicks.....	355,395	Jan. 4	135	.....	38	28
Welding compound.....	H. B. Stinson.....	366,273	July 12	719	.....	40	143
Welding. Electric.....	E. Thomson.....	375,022	Dec. 20	1246	325	41	1304
Welding-furnace for heating blanks.....	J. C. Richardson.....	363,171	May 17	1567	413	39	782
Welding links. Die for.....	J. B. Baugh.....	363,978	May 31	2729	707	39	1017
Welding the joints of metallic boxes. Device for.....	N. W. Pratt.....	368,617	Aug. 23	1844	493	40	828
Welding wrought-iron to cast-iron.....	W. W. Burson.....	356,982	Feb. 1	335	.....	38	485
Well-boring drill.....	A. J. Yarlot.....	360,838	Apr. 5	625	165	39	117
Well-boring. Jar for.....	E. Lloyd.....	369,726	Sept. 13	569	155	40	1152
Well casing. Oil.....	J. McConnell, and R. W. Miller.....	367,052	July 26	1771	478	40	359
Well. Closed.....	J. Hamer.....	369,056	Aug. 30	2480	659	40	959
Well-digging apparatus.....	W. Lowman.....	363,151	May 17	1536	406	39	775
Well-drill. Expansion.....	W. S. Green.....	369,403	Sept. 6	132	38	40	1057
Well drilling and piping machine.....	J. S. Brown.....	367,783	Aug. 9	659	{ 177 178 179 }	{ 40 40 40 }	583
Well-drilling machine.....	D. J. Culy.....	374,292	Dec. 6	168	44	41	1079
Well-drilling machine.....	J. Imler.....	369,339	Sept. 6	42	13	40	1042
Well packer. Oil.....	B. Masseth.....	367,823	Aug. 9	711	192	40	594
Well rig. Oil.....	W. Forgie.....	371,573	Oct. 18	1186	{ 308 309 }	{ 41 41 }	249
Well-sinking apparatus.....	M. T. and M. C. Chapman.....	373,440	Nov. 22	1759	466	41	825
Well-sinking machine.....	H. M. Walker and E. R. Lockwood.....	369,572	Sept. 6	357	99	40	1102
Well. Tube.....	F. H. Smith.....	358,578	Mar. 1	248	58	38	949
Well-ventilator and anti-freezer for pumps.....	F. Arndt.....	357,564	Feb. 15	1203	317	38	665

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wells and devices connected therewith for actuating water-wheels. Arrangement of Artesian	L. Lohman.....	372,690	Nov. 8	602	164	41	594
Wells. Apparatus for drawing water from	J. H. Bartlett.....	362,352	May 3	388	107	39	550
Wells. Casing for gas or oil	T. A. Gillespie.....	362,826	Aug. 23	2143	568	40	884
Wells. Casing-spear for Artesian	J. Bole.....	357,899	Feb. 15	1682	438	38	752
Wells, cisterns, &c. Cover for	A. S. Kirby.....	362,095	May 3	60	18	39	484
Wells. Device for operating the pumps of a group of oil-	H. H. Noyes.....	366,125	July 5	516	139	40	98
Wells. Device for removing casing from oil-	B. Masseith.....	367,822	Aug. 9	709	192	40	593
Wells. Device for raising oil from oil-	J. A. Boals.....	364,084	May 31	2862	742	39	1044
Wells. Drilling-packer for oil-	B. Masseith.....	367,824	Aug. 9	712	192	40	594
Wells. Elevating apparatus for	A. W. Swift.....	375,717	Dec. 27	2207	574	41	1496
Wells flow. Device for making oil-	J. W. Waits.....	371,006	Oct. 4	404	101	41	80
Wells. Packer for gas or oil	I. N. Hoadley.....	370,701	Sept. 27	2027	540	40	1437
Wells. Packer for oil and gas	J. D. Brooder.....	363,111	May 17	1485	392	39	764
Wells. Reamer for boring gas, oil, or water	J. M. Ross.....	373,908	Nov. 29	2450	658	41	965
Wells. Receiver for natural-gas	T. Shelton.....	371,794	Oct. 18	1507	389	41	314
Wells. Rod-coupling for oil-	B. E. Waugaman.....	360,745	Apr. 5	495	127	39	93
Wells. Socket for removing tools from oil-	A. W. Lewis.....	360,311	Mar. 29	2860	728	38	1467
Wheat and analogous grain. Machine for reducing..	R. Wilcox and S. L. Phillips.....	359,586	Mar. 15	1717	437	38	1233
Wheat and analogous grain. Machine for reducing..	R. Wilcox and S. L. Phillips.....	359,587	Mar. 15	1719	437	38	1233
Wheat-cleaning machine.	J. W. Miller.....	366,235	July 12	669	181	40	134
Wheat. First-break machine for the reduction of ..	J. Jessen.....	362,582	May 10	719	{ 200 201 }	{ 39 38 }	615
Wheat. Machine for cleaning or scouring.....	A. E. Jernander.....	359,867	Mar. 22	2155	544	38	1329
Wheat. Machine for scouring.....	F. M. Drake.....	375,612	Dec. 27	2054	{ 533 534 }	{ 41 41 }	1467
Wheel:							
See Bicycle-wheel.	Plow-wheel.						
Brush-wheel.	Polishing-wheel.						
Car-wheel.	Power-wheel.						
Chain-wheel.	Propelling-wheel.						
Expansion-wheel.	Railway-wheel.						
Fifth-wheel.	Reaction-wheel.						
Grinding or polish-	Saw-wheel.						
ing wheel.	Skate-wheel.						
Grooving-machine	Sprocket-wheel.						
wheel.	Traction-wheel.						
Knitting-machine	Turbine wheel.						
wheel.	Vehicle-wheel.						
Locomotive driving-	Velocipede-wheel.						
wheel.	Ventilating-wheel.						
Marking-wheel.	Water-wheel.						
Metal wheel.	Wheelbarrow-wheel.						
Metallic wheel.	Wind-wheel.						
Wheel.....	J. F. Appleby.....	362,142	May 3	122	36	39	497
Wheel.....	G. A. Barton.....	369,579	Sept. 6	366	101	40	1104
Wheel.....	W. P. Bettendorf.....	374,576	Dec. 13	592	154	41	1170
Wheel.....	R. Brown. (Reissue).....	10,851	July 19	1720	463	40	342
Wheel.....	T. A. Davison.....	372,129	Oct. 25	2025	519	41	418
Wheel.....	P. Dion.....	366,464	July 12	954	260	40	190
Wheel.....	J. Dunstedter.....	375,056	Dec. 20	1292	337	41	1312
Wheel.....	A. B. Ewing.....	357,120	Feb. 1	557	144	38	524
Wheel.....	W. A. Forman.....	375,058	Dec. 20	1294	338	41	1313
Wheel.....	F. H. Harris.....	369,850	Sept. 13	744	199	40	1184
Wheel.....	G. W. Howell.....	356,643	Jan. 25	1931	506	38	391
Wheel.....	G. W. Howell.....	360,156	Mar. 29	2639	667	38	1424
Wheel.....	G. W. Howell.....	369,641	Sept. 6	458	128	40	1122
Wheel.....	J. R. Little. (Reissue).....	10,842	June 7	587	157	39	1198
Wheel.....	J. F. Packer.....	369,874	Sept. 13	788	210	40	1192
Wheel.....	A. Partridge.....	375,682	Dec. 27	2158	562	41	1487
Wheel.....	B. Schad.....	355,344	Jan. 4	74	20	38	15
Wheel.....	W. G. Scott.....	360,920	Apr. 12	744	195	39	145
Wheel.....	A. O. Slentz.....	370,714	Sept. 27	2049	544	40	1441
Wheel.....	W. E. Smith.....	359,745	Mar. 22	1948	494	38	1292
Wheel.....	F. W. Starr.....	366,209	July 12	714	194	40	143
Wheel and axle.....	C. E. Candee.....	366,454	July 12	943	257	40	188
Wheel and axle.....	H. Q. Maurino.....	364,426	June 7	306	84	39	1146
Wheel and axle.....	J. Pettinger.....	361,076	Apr. 12	982	249	39	187
Wheel-attaching device.....	B. J. Miles and J. J. Jenkins.....	360,714	Apr. 5	454	115	39	84
Wheel-blanks. Finishing.....	A. Craig.....	374,142	Nov. 29	2782	748	41	1029
Wheel-fender.....	P. Portois.....	369,553	Sept. 6	328	90	40	1097
Wheel-making machine.....	J. M. Ridley.....	357,630	Feb. 15	1289	339	38	680
Wheel-rake.....	W. H. Wild.....	355,364	Jan. 4	97	26, 27	38	21
Wheel-rake.....	W. H. Wild.....	363,034	May 17	1380	{ 364 365 }	{ 39 39 }	744
Wheel-rake.....	W. H. Wild.....	367,486	Aug. 2	185	51, 52	40	486
Wheel rim and tire.....	T. Warwick.....	362,472	May 3	566	157	39	583
Wheel-rims. Machine for forming hollow metallic ..	G. T. Warwick.....	360,936	Apr. 12	774	201	39	150
Wheel with endless rail.....	W. Fender.....	373,887	Nov. 29	2419	650	41	959
Wheels. Feathering blades of paddle and other ..	A. H. Carpenter.....	371,819	Oct. 18	1541	398	41	321
Wheels for the insertion of arbors. Device for sup-	J. T. Kenworthy.....	369,947	Sept. 13	901	240	40	1213
porting							
Wheels. Machine for cutting worm-	J. A. Norstedt.....	373,192	Nov. 15	1382	366	41	743
Wheels. Manufacture of metal.....	J. R. Little.....	361,952	Apr. 26	2249	586	39	442
Wheels. Manufacture of metal.....	J. R. Little. (Reissue).....	10,843	June 7	588	158	39	1198
Wheelbarrow.....	W. G. McGuire.....	366,334	July 12	803	217	40	159
Wheelbarrow.....	J. Peterson.....	363,168	May 17	1563	412	39	781
Wheelbarrow-wheel.....	W. J. Wilson.....	359,045	Mar. 8	918	233	38	1078
Whetstone-holder.....	D. Parker.....	368,107	Aug. 9	1114	295	40	670
Whiffletree.....	J. F. Bales.....	373,328	Nov. 15	1583	419	41	781
Whiffletree.....	S. Baltzly.....	372,353	Nov. 1	102	30	41	490
Whiffletree.....	R. L. Cox.....	362,574	May 10	710	197	39	613
Whiffletree.....	C. Davis and N. Redmond.....	360,664	Apr. 5	386	98	39	73
Whiffletree.....	E. L. Liedke.....	359,873	Mar. 22	2162	545	38	1331

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Whiffletree.....	J. D. Miller.....	362,769	May 10	1011	274	39	668
Whiffletree.....	B. C. Seaton.....	373,488	Nov. 22	1836	489	41	840
Whiffletree.....	W. Southwick.....	364,314	June 7	149	42	39	1117
Whiffletree.....	J. H. Woodard.....	369,625	Sept. 6	436	122	40	1118
Whiffletree attachment.....	J. Kurtz.....	355,326	Jan. 4	50	13	38	11
Whiffletree-center.....	J. Edgar.....	372,365	Nov. 1	122	37	41	494
Whiffletree-coupling.....	W. F. Adams.....	370,590	Sept. 27	1863	495	40	1405
Whiffletree-coupling.....	A. Heusser.....	359,018	Mar. 8	885	225	38	1072
Whiffletree-coupling.....	M. B. Kirker.....	372,681	Nov. 8	587	159	41	591
Whiffletree-coupling.....	M. B. Runyan.....	372,988	Nov. 8	1060	283	41	674
Whiffletree-coupling.....	H. Streif.....	364,189	May 31	3023	785	39	1074
Whiffletree-hook.....	J. M. Basinger.....	368,051	Aug. 9	1040	279	40	657
Whiffletree-hook.....	E. Briggs.....	357,569	Feb. 15	1210	319	38	666
Whiffletree-hook.....	G. N. Briggs.....	368,322	Aug. 16	1430	379	40	739
Whiffletree-hook.....	I. C. Burgett.....	374,932	Dec. 20	1107	289	41	1280
Whiffletree-hook.....	G. W. Hawxhurst.....	369,110	Aug. 30	2555	679	40	973
Whiffletree-hook.....	T. G. Mandt.....	375,644	Dec. 27	2099	547	41	1477
Whiffletree-hook.....	E. S. Mead.....	362,768	May 10	1011	274	39	668
Whiffletree-hook.....	H. M. Oliver.....	372,485	Nov. 1	294	81	41	526
Whiffletree-hook.....	W. A. Osborne.....	358,565	Mar. 1	231	53	38	946
Whiffletree-hook.....	C. Shuman.....	358,079	Feb. 22	1939	511	38	806
Whiffletree-hook.....	A. J. Stewart.....	366,896	July 19	1573	421	40	314
Whiffletree-hook.....	W. J. Woods.....	367,126	July 26	1884	510	40	380
Whiffletree-iron.....	A. J. Martin.....	366,966	July 19	1660	446	40	331
Whiffletree-iron.....	W. A. Slappey.....	368,735	Aug. 23	2022	536	40	862
Whiffletrees. Machine for attaching bands to.....	F. Krein.....	365,390	June 28	1739	{ 450 } { 451 }	{ 39 } { 39 }	1440
Whip.....	L. F. Herrick.....	361,763	Apr. 26	1964	512	39	389
Whip.....	E. B. Knapp.....	364,023	May 31	2785	721	39	1029
Whip.....	E. B. Knapp.....	369,015	Aug. 30	2414	641	40	946
Whip.....	E. K. Warren.....	356,181	Jan. 18	1270	335	38	258
Whip and cane. Combined.....	O. Godward.....	375,485	Dec. 27	1871	489	41	1434
Whip-button.....	S. Baker.....	364,886	June 14	984	259	39	1280
Whip-button.....	C. E. Williams.....	361,034	Apr. 12	923	234	39	176
Whip-button.....	C. E. Williams.....	373,166	Nov. 15	1340	356	41	735
Whip-button.....	C. E. Williams.....	373,167	Nov. 15	1341	356	41	735
Whip-button and method of manufacture.....	C. G. Becker.....	356,092	Jan. 18	1150	305	38	237
Whip-button and process of construction.....	L. M. Osden.....	364,539	June 7	482	130	39	1178
Whip-cap.....	C. E. Williams.....	373,165	Nov. 15	1339	355	41	735
Whip-head. Disk.....	C. E. Williams.....	361,035	Apr. 12	925	234	39	176
Whip-lock.....	C. M. Baldwin.....	373,713	Nov. 22	2170	580	41	905
Whip-lock.....	E. J. Colby.....	363,990	May 31	2743	711	39	1020
Whip-rack.....	H. G. Blish.....	360,272	Mar. 29	2810	714	38	1457
Whip-rolling machine.....	H. Mullen and J. Noble, Jr.....	367,761	Aug. 2	616	166	40	567
Whip-snap.....	G. T. Moore.....	360,718	Apr. 5	460	116	39	85
Whip-socket.....	F. E. Benton.....	367,179	July 26	1951	526	40	393
Whip-socket.....	F. E. Benton.....	374,771	Dec. 13	860	226	41	1224
Whip-socket.....	G. P. Rose.....	359,286	Mar. 15	1239	322	38	1146
Whip-socket and rein-holder.....	G. H. Gasking.....	355,312	Jan. 4	27	8	38	7
Whip-socket and rein-holder. Combined.....	G. E. Horn.....	357,674	Feb. 15	1365	359	38	693
Whip-socket, oil-can, and wrench.....	C. L. Bard.....	367,497	Aug. 2	210	60	40	492
Whip-stock core.....	H. S. Cushman.....	363,510	May 24	2043	531	39	882
Whips. Machine for laying button-molds on.....	C. J. Bradley.....	375,473	Dec. 27	1856	485	41	1431
Whips, &c. Machine for setting caps on.....	F. L. Goodenough.....	374,532	Dec. 6	521	136	41	1146
Whirligig.....	J. Dupuy.....	363,375	May 24	1834	482	39	842
Whistle.....	G. H. Crosby.....	357,702	Feb. 15	1401	368	38	700
Whistle. Chime steam.....	R. T. Crane.....	359,775	Mar. 22	2008	507	38	1302
Whistle. Steam.....	W. G. Losch and L. B. Harner.....	364,830	June 14	902	238	39	1264
Whistles. Electrical device for operating steam.....	W. M. Pease.....	363,079	May 17	1436	380	39	756
Wick.....	J. F. Seery.....	372,869	Nov. 8	887	238	41	643
Wick.....	A. M. Sterns.....	373,496	Nov. 22	1855	493	41	843
Wick adjuster and regulator.....	G. Harcastle.....	372,020	Oct. 25	1839	476	41	387
Wick-raiser.....	F. Rhind.....	372,639	Nov. 1	524	143	41	570
Wick-raising device.....	W. F. Kistler.....	372,626	Nov. 1	508	138	41	567
Wick-raising mechanism.....	G. W. Woodward.....	366,805	July 19	1448	387	40	290
Wick-trimmer.....	H. Jordan.....	356,319	Jan. 18	1460	384	38	294
Wick-tube.....	J. H. Clark and J. Lines.....	371,033	Oct. 4	435	109	41	86
Wig or similar article.....	L. F. Marshall.....	373,297	Nov. 15	1535	406	41	771
Wind-engine.....	W. R. Close.....	366,204	July 12	619	169	40	125
Wind-engine.....	H. J. Philpott.....	359,282	Mar. 15	1234	321	38	1145
Wind-regulator. Automatic.....	O. E. Scott.....	356,967	Feb. 1	313	85	38	481
Wind-wheel.....	W. Ecker.....	357,471	Feb. 8	1047	277	38	625
Wind-wheel.....	S. H. Heatwole.....	359,443	Mar. 15	1471	376	38	1189
Wind-wheel.....	J. Holm and L. Engberg.....	355,992	Jan. 11	997	262	38	202
Wind-wheel.....	H. Q. Hood.....	361,875	Apr. 26	2138	{ 554 } { 555 }	{ 39 } { 39 }	421
Wind-wheel.....	H. C. Hutchinson.....	357,282	Feb. 8	786	204	38	576
Wind-wheels. Automatic regulator for.....	J. F. Snethen.....	375,462	Dec. 27	1840	482	41	1429
Winding and twisting machines, &c. Stop-motion and winding mechanism for.....	J. Boyd.....	359,839	Mar. 22	2098	531	38	1319
Winding bobbins. Attachment for.....	J. Pappa.....	359,277	Mar. 15	1229	319	38	1144
Winding-drum.....	M. T. Chapman.....	371,548	Oct. 18	1146	{ 299 } { 300 }	{ 41 } { 41 }	242
Winding laps of cotton, &c. Machine for.....	H. H. Clayton.....	355,508	Jan. 4	276	73	38	56
Winding machine. Weft.....	R. Megowan.....	373,675	Nov. 22	2114	565	41	894
Winding-machines. Adjustable spool-spindle for.....	F. F. Ellis.....	362,731	May 10	942	257	39	656
Winding machines. Stop-motion mechanism for yarn.....	E. A. Moore.....	373,842	Nov. 29	2355	632	41	947
Winding machinery. Yarn.....	F. Nourse and C. L. Foss.....	367,922	Aug. 9	851	{ 230 } { 231 }	{ 40 } { 40 }	622
Winding paper and other fabrics. Machine for.....	J. Waldron.....	363,024	May 17	1366	361	39	741
Winding-up device.....	L. C. Huber.....	366,586	July 12	1147	307	40	228
Winding yarn. Machine for.....	B. A. Dobson.....	367,966	Aug. 9	923	{ 249 } { 250 }	{ 40 } { 40 }	635
Winding yarn on shuttle-bobbins. Machine for.....	R. C. Newell.....	366,238	July 12	673	{ 182 } { 183 }	{ 40 } { 40 }	135

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Windlasses. Locking-gear for.....	C. A. Potter	371,853	Oct. 18	1599	413	41	333
Windmill	J. Q. Adams	357,751	Feb. 15	1484	389	38	715
Windmill	F. Altman	364,983	June 14	1129	294	39	1306
Windmill	A. Anderson	375,245	Dec. 20	1551	407	41	1364
Windmill	R. H. Avery and L. B. Berrien	371,120	Oct. 4	551	141	41	109
Windmill	A. S. Baker	370,756	Oct. 4	3	1, 2	41	3
Windmill	D. P. Barrett	357,652	Feb. 15	1333	351	38	687
Windmill	G. M. Beard	362,870	May 10	1133	{ 305 306 }	{ 39 39 }	{ 691 706 }
Windmill	G. M. Beard. (Reissue)	10,834	May 10	1212	324	39	706
Windmill	A. F. Chubbuck	372,300	Nov. 1	20	6	41	474
Windmill	S. M. Fulton	355,869	Jan. 11	807	212	38	164
Windmill	L. M. Godfrey	356,634	Jan. 25	1922	503	38	389
Windmill	W. H. Goff	365,991	July 5	332	87, 88	40	63
Windmill	A. Haldan	367,517	Aug. 2	241	69	40	497
Windmill	M. V. Harper	367,975	Aug. 9	933	252	40	637
Windmill	G. Henderson	372,148	Oct. 25	2045	524	41	423
Windmill	J. G. and J. Hof	361,157	Apr. 12	1113	282	39	211
Windmill	C. J. Jonasson	367,405	Aug. 2	68	18	40	463
Windmill	A. L. and D. M. Kitzelman	356,137	Jan. 18	1214	{ 322 323 }	{ 38 38 }	{ 248 248 }
Windmill	J. N. Knox	359,930	Mar. 22	2249	566	38	1347
Windmill	P. Kohnz	358,205	Feb. 22	2127	561	38	840
Windmill	J. S. Lindquist	360,706	Apr. 5	443	113	39	82
Windmill	A. W. McKenzie	356,145	Jan. 18	1224	325	38	250
Windmill	E. R. McMaster	361,709	Apr. 26	1892	490	39	377
Windmill	J. Mossman	373,089	Nov. 15	1219	326	41	714
Windmill	H. Myers	374,904	Dec. 13	1052	276	41	1261
Windmill	G. H. Poe	372,563	Nov. 1	411	{ 110 111 }	{ 41 41 }	{ 549 549 }
Windmill	C. A. Reibe	361,894	Apr. 26	2165	561	39	426
Windmill	H. Reynolds	368,782	Aug. 23	2082	{ 551 552 }	{ 40 40 }	{ 872 872 }
Windmill	J. P. Schuckman	359,818	Mar. 22	2067	{ 523 524 }	{ 38 38 }	{ 1314 1314 }
Windmill	J. C. C. Smith	361,555	Apr. 19	1648	427	39	324
Windmill	J. B. Sohn	355,726	Jan. 11	598	156	38	127
Windmill	J. W. Vanmeter	371,718	Oct. 18	1397	361	41	293
Windmill	A. M. Vanpelt and P. P. Nicholls	362,557	May 10	684	191	39	609
Windmill	D. D. Walker	365,955	July 5	286	75	40	54
Windmill	H. Watkins	370,294	Sept. 20	1408	{ 378 379 }	{ 40 40 }	{ 1315 1315 }
Windmill	G. L. White	367,687	Aug. 2	496	{ 136 137 }	{ 40 40 }	{ 544 544 }
Windmill	O. S. Willett	360,188	Mar. 29	2685	678	38	1433
Windmill	H. J. Wolcott	365,422	June 28	1777	462	39	1448
Windmill attachment	J. Greenwood and W. Hill, Jr	356,246	Jan. 18	1358	359	38	275
Windmill attachment. Automatic	M. Oppenheimer	357,288	Feb. 8	792	206	38	577
Windmill-tower	H. C. Addis	364,077	May 31	2854	740	39	1042
Windmill-tower	C. B. Putnam	357,290	Feb. 8	798	208	38	578
Windmills. Automatic regulator for	R. A. Reynolds	369,366	Sept. 6	82	26	40	1049
Windmills. Automatic regulator for	H. R. Stephens	356,295	Jan. 18	1429	376	38	289
Windmills. Automatic stop for	J. G. Chapman	369,587	Sept. 6	375	104	40	1106
Window	G. W. Bishop	373,636	Nov. 22	2062	550	41	882
Window	S. S. Bradshaw	362,714	May 10	919	251	39	652
Window	S. S. Bradshaw	362,715	May 10	921	251	39	652
Window	E. R. Crofut	357,701	Feb. 15	1400	368	38	700
Window	O. Flagstad	358,773	Mar. 1	513	126	38	999
Window	A. Hitt	373,020	Nov. 8	1115	297	41	684
Window	G. H. King	363,397	May 24	1864	490	39	847
Window	P. D. La Fayette, Sr	373,238	Nov. 15	1459	384	41	756
Window	M. W. Palmer and C. S. Munro	375,564	Dec. 27	1981	516	41	1455
Window	J. S. Pihlström	359,283	Mar. 15	1235	321	38	1145
Window	A. H. Röger	375,000	Dec. 20	1215	317	41	1299
Window	H. Tintrop	356,857	Feb. 1	162	43	38	452
Window attachment	C. Claudy	375,341	Dec. 27	1682	442	41	1398
Window-chair	A. Witek	367,259	July 26	2078	562	40	417
Window-cleaner	M. Bourke	355,298	Jan. 4	11	4	38	4
Window-cleaner, mop-holder, &c. Combined	N. W. Dew	366,309	July 12	767	207	40	153
Window-fastener	D. Allport	360,943	Apr. 12	784	204	39	151
Window frame and sash	P. Habel	372,534	Nov. 1	365	99	41	540
Window frame and sash	J. E. Jones	356,943	Feb. 1	276	76	38	472
Window-guard	G. Di Gaetano	373,970	Nov. 29	2539	682	41	982
Window-guard	J. Sheehan	364,551	June 7	496	133	39	1181
Window-guard	O. Wagner	367,478	Aug. 2	166	48	40	483
Window. Jail	D. McDonald	374,800	Dec. 13	902	236	41	1231
Window-jambs. Machine for cutting openings in	J. Leland	358,463	Mar. 1	57	15	38	914
Window or door ventilator	P. Abrahamson	355,904	Jan. 11	870	228	38	176
Window, picture, or other frame	J. S. Ford	369,512	Sept. 6	269	75	40	1085
Window. Reversible-sash	F. H. De Guerre and W. W. De Lano	369,236	Aug. 30	2705	719	40	1004
Window-screen	J. A. Bryan	357,267	Feb. 8	769	200	38	572
Window-screen	D. Cook	361,136	Apr. 12	1072	271	39	204
Window-screen	J. Martin, Jr	361,883	Apr. 26	2151	558	39	424
Window-screen	B. H. Planthaber	372,562	Nov. 1	410	110	41	549
Window-screen	S. Roebuck	369,261	Aug. 30	2740	730	40	1011
Window-screen	J. L. Rogers	355,340	Jan. 4	69	19	38	14
Window-screen	L. H. Sholder	364,309	June 7	143	40	39	1115
Window-screen	M. H. Walsh	356,563	Jan. 25	1817	475	38	369
Window-screen. Adjustable	F. M. Lampson and G. W. Hogben	361,825	Apr. 26	2056	535	39	406
Window-screen frame	C. D. Tabor	358,582	Mar. 1	253	59	38	950
Window-shade fixture	J. W. Barnes	363,791	May 31	2418	636	39	965
Window-shade fixture	J. F. Hickey	356,535	Jan. 25	1767	460	38	360
Window-shades, &c. Bottom strip or molding for	J. W. Greene	371,192	Oct. 11	653	167	41	136
Window-shades. Device for operating	A. D. Miller	361,710	Apr. 26	1894	490	39	377
Window-shades. Heading for	J. H. Stevenson	359,905	Mar. 22	2211	556	38	1339

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Window-shades. Ornamenting	E. P. Benjamin	366,449	July 12	938	256	40	186
Window. Show-	J. P. Doughten	359,064	Mar. 8	942	240	38	1083
Window-slide	W. H. Dill and S. Downey	364,224	June 7	35	11	39	1095
Window. Storm-	O. G. Andrews	365,769	July 5	1	1	40	3
Window-ventilator	S. J. Shaw	358,223	Feb. 22	2148	566	38	844
Window-ventilator	F. E. Smith	364,734	June 14	738	196	39	1236
Window ventilator and shade. Combined	T. Dean	367,195	July 26	1975	534	40	398
Windows and doors. Fly trap and screen for	R. J. Tarbell	363,861	May 31	2550	662	39	985
Windows and doors. Guard for	A. Heath	361,514	Apr. 19	1598	414	39	314
Windows. Bracket-support for show-	C. H. Besly	361,119	Apr. 12	1042	263	39	199
Windows. Fastener for meeting-rails of	F. Stamm	357,943	Feb. 15	1740	454	38	763
Windows. Strengthening glass	B. W. Morgan and J. A. Anderson	368,413	Aug. 16	1555	415	40	764
Wine or cider presses. Pomace-laying attachment for	S. E. Tooley	372,048	Oct. 25	1893	489	41	395
Wine-press	B. Toulouse and J. Delorieu	367,122	July 26	1874	507	40	378
Winnower-screen	C. Hayward	370,139	Sept. 20	1203	318	40	1276
Wire and band coupling	C. E. Tafflinger	372,579	Nov. 1	438	116	41	553
Wire and winding the same upon a cylinder. Machine for cutting teeth in	D. B. Haselton	369,851	Sept. 13	745	199	40	1184
Wire. Apparatus for wiping metal-coated	C. E. Matteson	370,710	Sept. 27	2041	543	40	1440
Wire. Barbed	J. Haish	356,762	Feb. 1	29	9	38	428
Wire-barbing machine	A. J. Bates	357,653	Feb. 15	1334	351	38	688
Wire-barbing machine	A. J. Bates	365,723	June 28	2232	581	39	1534
Wire-barbing machine	A. J. Bates	367,085	July 26	1824	491	40	369
Wire-barbing machine	H. A. Clow	361,928	Apr. 26	2205	572	39	434
Wire-barbing machine	O. J. Ziegler	359,485	Mar. 15	1532	392	38	1201
Wire belting or fabric	J. E. Emerson and T. Midgley	371,181	Oct. 11	639	163	41	134
Wire box and cover fasteners. Machine for making	J. Adt	356,298	Jan. 18	1433	377	38	290
Wire-cloth	B. Scarles	355,561	Jan. 4	349	93	38	76
Wire-cloth-delivering reel	S. E. Ratekin	364,855	June 14	940	248	39	1271
Wire-cloth-delivering reel	S. E. Ratekin	369,126	Aug. 30	2573	684	40	977
Wire-cloth seam	J. J. Sellers	372,335	Nov. 1	73	22	41	485
Wire-cloth-stretching machine	P. A. Buell	355,436	Jan. 4	184	49	38	37
Wire-cloth, wire-netting, &c. Galvanizing and tinning	B. Scarles	361,550	Apr. 19	1642	426	39	323
Wire-coil sheet	L. M. Devore	361,002	Apr. 12	882	222	39	167
Wire-coiling machine	F. M. Leavitt	375,678	Dec. 27	2151	559	41	1485
Wire coupling. Electric	R. Solano	360,925	Apr. 12	749	197	39	146
Wire couplings. Machinery for making	W. E. Brock	364,985	June 14	1132	295	39	1306
Wire-covering machine	D. Macduff	357,489	Feb. 8	1070	282	38	630
Wire-cutter	H. B. Morrison	359,684	Mar. 22	1854	472	38	1276
Wire cutting and crimping apparatus	T. Conners	375,312	Dec. 20	1641	430	41	1381
Wire-cutter and saw. Combined	C. W. and W. C. Collyer	358,544	Mar. 1	194	45	38	938
Wire-cutting machine	O. H. Hicks	362,746	May 10	967	262	39	660
Wire-drawing dies. Device for jewelry	W. H. Sawyer	362,789	May 10	1036	282	39	672
Wire-drawing machine	W. H. Sawyer	367,667	Aug. 2	469	128	40	539
Wire-drawing machine	W. Wallace	367,733	Aug. 2	579	157	40	560
Wire fabric	D. C. Stover	361,334	Apr. 19	1355	349	39	268
Wire-fabric machine	A. L. Kitselman	356,322	Jan. 18	1465	385	38	295
Wire fabrics. Machine for forming netted	T. M. Conner	357,067	Feb. 1	458	121	38	507
Wire fabrics. Machine for weaving coiled	W. S. Seymour	357,342	Feb. 8	862	227	38	590
Wire-fastener	C. T. Bush	371,122	Oct. 4	555	141	41	110
Wire-fastener	W. Orr	359,463	Mar. 15	1493	383	38	1194
Wire gate	J. F. Hanna	361,942	Apr. 26	2228	580	39	438
Wire gate. Flexible	T. Ruediger	359,941	Mar. 22	2264	569	38	1349
Wire-grooving machine	P. Clifford and J. Coupal	371,424	Oct. 11	978	255	41	199
Wire handles. Machine for making	J. S. Detrick	371,492	Oct. 11	1059	276	41	215
Wire handles. Making	G. W. Knapp	371,463	Oct. 11	1027	268	41	209
Wire hook	C. T. Williamson	372,099	Oct. 25	1974	507	41	410
Wire hoop	J. C. Durling	356,578	Jan. 25	1834	480	38	372
Wire hoop for barrels	O. M. Pond	372,638	Nov. 1	524	143	41	570
Wire-lapping tool	F. W. Koblenz	374,191	Dec. 6	38	10	41	1053
Wire. Machine for automatically forming rings from	J. Adt	359,416	Mar. 15	1434	366	38	1182
Wire. Machine for barbing and winding	F. Philips	366,245	July 12	684	185	40	137
Wire. Machine for bending and cutting	A. F. Fogelquist	369,051	Aug. 30	2467	654	40	957
Wire. Machine for drawing	B. F. Wyker and A. D. Storm	357,164	Feb. 1	625	161	38	536
Wire. Machine for pointing and threading pieces of	A. H. Hammond	372,412	Nov. 1	188	53	41	505
Wire-making. Mill-plant for	E. S. Lenox	361,592	Apr. 19	1713	443	39	335
Wire. Making part-plated	A. T. Wall	374,097	Nov. 29	2721	730	41	1019
Wire-manipulating tool	J. W. and N. J. Lewis	357,613	Feb. 15	1268	333	38	676
Wire mat	F. C. Guillaume	375,321	Dec. 20	1654	433	41	1383
Wire mat	J. Tye	359,235	Mar. 8	1165	303	38	1125
Wire mats. Frame for	C. C. Hill	366,098	July 5	471	128	40	89
Wire. Mechanism for transferring coils of	F. H. Daniels	366,384	July 12	864	232	40	171
Wire nail	C. D. Rogers	364,301	June 7	133	38	39	1114
Wire nail	C. D. Rogers	364,439	June 7	326	89	39	1150
Wire nail	C. D. Rogers	368,687	Aug. 23	1945	516	40	848

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wire nail	W. A. Sweet.....	373,499	Nov. 22	1858	494	41	843
Wire nail and die for pointing the same.....	W. G. Algeo.....	371,162	Oct. 11	615	157	41	129
Wire nail. Barbed and corrugated	J. E. Emerson and T. Midgley.....	372,844	Nov. 8	854	228	41	637
Wire nails. Gripping-die for corrugating and barbing	J. E. Emerson and T. Midgley.....	372,845	Nov. 8	854	228	41	637
Wire netting. Flat spiral	R. Einbigler and C. Adler	373,177	Nov. 15	1359	360	41	738
Wire-netting. Reel for holding	J. J. Geiger and I. T. Wood	374,357	Dec. 6	273	73	41	1098
Wire. Pliers for cutting and stretching	J. W. Overstreet.....	372,560	Nov. 1	408	109	41	548
Wire-rod reel	W. J. Karnen.....	370,792	Oct. 4	58	15	41	14
Wire-rod-reeling machine	F. H. Daniels.....	370,688	Sept. 27	2005	534	40	1433
Wire-rod-reeling machine	H. A. Young	365,423	June 28	1779	{ 462 463 }	{ 39 }	1448
Wire-rod-reeling machine	H. A. Young	369,307	Aug. 30	2810	749	40	1025
Wire rods. Apparatus for automatically coiling	F. H. Daniels.....	366,383	July 12	862	{ 231 232 }	{ 40 }	170
Wire rods. Machine for coiling	F. H. Daniels.....	373,965	Nov. 29	2529	680	41	980
Wire rods. Machine for coiling	E. S. Lenox.....	373,463	Nov. 22	1792	477	41	832
Wire rope	R. A. Tilghman.....	370,221	Sept. 20	1314	350	40	1296
Wire-rope clutch.....	L. Knaak.....	360,891	Apr. 12	706	187	39	138
Wire-rope machine.....	J. B. Stone.....	359,409	Mar. 15	1420	{ 363 364 }	{ 38 }	1179
Wire rope. Machine for making.....	W. Hewitt.....	358,663	Mar. 1	360	86.87	38	970
Wire rope. Machine for making.....	R. S. Newall.....	366,422	July 12	904	244	40	179
Wire-rope-making machine	A. S. Hallidie.....	369,055	Aug. 30	2479	658	40	959
Wire rope. Socket for fastening.....	F. C. Dumas.....	356,106	Jan. 18	1173	310	38	240
Wire-rope ways. Clip for	A. S. Hallidie.....	357,664	Feb. 15	1348	355	38	690
Wire ropes. Manufacturing.....	J. B. Stone.....	359,410	Mar. 15	1422	364	38	1180
Wire-screen stretcher and clamp.....	A. Mattson.....	367,538	Aug. 2	265	75	40	502
Wire spirals. Machine for the manufacture of	F. Mallet-Guy.....	372,423	Nov. 1	206	58	41	509
Wire-splicer.....	W. F. Batters.....	374,650	Dec. 13	689	181	41	1190
Wire splicer and stretcher	J. H. Lea.....	358,044	Feb. 22	1885	499	38	796
Wire springs. Machine for making coiled.....	W. L. Goddard	357,380	Feb. 8	917	{ 241 242 }	{ 38 }	601
Wire springs. Machine for making coiled.....	C. Graham.....	375,064	Dec. 20	1303	{ 340 341 }	{ 41 }	1315
Wire-straining machine	J. Reid	374,810	Dec. 13	917	239	41	1235
Wire-stretcher	P. H. Ainsworth.....	358,138	Feb. 22	2032	534	38	821
Wire-stretcher	J. T. Alexander	363,191	May 17	1597	419	39	787
Wire-stretcher	D. H. Bausman.....	358,831	Mar. 8	610	151	38	1022
Wire-stretcher	H. M. Beckley	359,312	Mar. 15	1270	329	38	1152
Wire-stretcher	J. B. Cleaveland.....	366,076	July 5	445	121	40	84
Wire-stretcher	J. B. Cleaveland.....	375,127	Dec. 20	1401	364	41	1333
Wire-stretcher	D. Cleaver.....	363,805	May 31	2470	641	39	969
Wire-stretcher	D. R. De Haven	356,869	Feb. 1	180	48	38	455
Wire-stretcher	W. E. Dunbar.....	367,276	July 26	2099	567	40	421
Wire-stretcher	B. Erbe.....	359,600	Mar. 22	1746	444	38	1255
Wire-stretcher	B. Erbe.....	373,518	Nov. 22	1898	503	41	851
Wire-stretcher	J. Flynn and J. F. Kilburn.....	374,668	Dec. 13	715	188	41	1195
Wire-stretcher	L. W. Lindley	370,631	Sept. 27	1924	510	40	1418
Wire-stretcher	D. D. Mangum.....	359,084	Mar. 8	962	247	38	1087
Wire-stretcher	J. A. Mason.....	366,853	July 19	1520	407	40	303
Wire-stretcher	A. S. Miller.....	359,168	Mar. 8	1069	278	38	1108
Wire-stretcher	J. Shipley.....	363,176	May 17	1573	414	39	784
Wire-stretcher	W. B. West	364,152	May 31	2967	771	39	1063
Wire-stretching device.....	W. Boyd.....	362,600	May 10	752	207	39	620
Wire-stretching implement	G. O. Allen.....	364,564	June 7	511	137	39	1184
Wire-tightener.....	J. W. Boyd.....	361,745	Apr. 26	1938	503	39	385
Wire-tightener.....	W. A. Murray.....	371,514	Oct. 11	1100	286	41	224
Wire-tightener.....	W. A. Murray.....	372,382	Nov. 1	149	43	41	498
Wire-tightener.....	W. Ware.....	373,914	Nov. 29	2457	660	41	967
Wire-tightening device	J. Vivian.....	372,723	Nov. 8	650	179	41	603
Wire-twisting device.....	H. N. Macomber.....	368,480	Aug. 16	1656	442	40	783
Wire-twisting machine.....	W. M. Augustine.....	369,765	Sept. 13	618	167	40	1160
Wire-twisting tool	C. C. Alexander	358,715	Mar. 1	441	107	38	986
Wire-twisting wrench. Adjustable.....	C. E. Wintode.....	368,438	Aug. 16	1594	425	40	772
Wire with soft metal. Apparatus for covering	J. C. Appleby.....	374,164	Dec. 6	4	1, 2	41	1047
Wire with soft metal. Apparatus for covering	J. C. Appleby.....	374,166	Dec. 6	9	2	41	1048
Wires. Clamping device for.....	J. C. Trovillion.....	373,789	Nov. 22	2274	609	41	923
Wires. Compound for covering electric	H. W. Merritt.....	366,336	July 12	806	.....	40	159
Wires. Making heddle.....	J. H. Williams.....	366,056	July 5	421	114	40	80
Wires, &c. Semi-elastic compound for covering electric	H. W. Merritt.....	366,337	July 12	806	.....	40	160
Wood and asphalt and concrete walk. Combined.....	L. H. Miller and F. Schillinger	356,004	Jan. 11	1013	266	38	205
Wood-bending device	C. D. Hazen.....	367,977	Aug. 9	934	253	40	638
Wood-burning furnace	J. Montgomery.....	368,895	Aug. 23	2238	595	40	904
Wood. Composition for preserving	W. Brisley and W. S. Finch.....	359,384	Mar. 15	1390	.....	38	1173
Wood-embossing machine	W. A. Compton	367,366	Aug. 2	17	5	40	454
Wood-embossing machine.....	G. S. Crawford and B. F. Kinnear	365,673	June 28	2159	563	39	1521
Wood, leather, &c. Ornamenting.....	D. B. Burdett.....	362,874	May 10	1142	307	39	692
Wood. Machine for cross-cutting	F. Mankey.....	356,286	Jan. 18	1415	{ 373 374 }	{ 38 }	286
Wood. Machine for cutting, bundling, and binding } fire-.....	F. Kingston	369,603	Sept. 6	399	{ 110 111 }	{ 40 }	1111
Wood. Method of and appliance for bending	G. S. Bond.....	360,848	Apr. 12	642	170	39	127
Wood. Ornamenting	A. Komp.....	358,678	Mar. 1	386	92	38	975
Wood. Preserving	J. A. Sewall.....	374,208	Dec. 6	57	.....	41	1058
Wood splitting and chopping machine	T. P. Chen.....	375,122	Dec. 20	1393	362	41	1331
Wood-turning machine	A. Schuch.....	365,277	June 21	1562	407	39	1395
Wood wool. Machine for making	R. Fleck.....	370,461	Sept. 27	1667	444	40	1371
Wood-wool wadding	P. Hartmann.....	358,610	Mar. 1	292	70	38	957
Wood-working machine.....	W. R. Briggs.....	360,138	Mar. 29	2608	661	38	1419
Wood-working machine.....	F. M. Caler.....	361,261	Apr. 19	1261	322	39	251
Wood-working machine.....	G. J. Goodhue.....	374,670	Dec. 13	718	189	41	1196
Wood-working machine.....	G. J. Goodhue.....	374,671	Dec. 13	720	189	41	1196

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr & E.	Vol.	Page.
Wood-working machine.....	G. J. Goodhue.....	374,672	Dec. 13	721	189	41	1196
Wood-working machine.....	A. D. Linn.....	359,453	Mar. 15	1481	379	38	1191
Wood-working machine.....	D. Picard.....	362,993	May 17	1316	349	39	731
Wood-working machine.....	S. J. Shimer.....	371,380	Oct. 11	913	{ 234 235 236 }	{ 41 }	185
Wood-working-machine gage.....	N. Stalter.....	363,016	May 17	1354	357	39	739
Wood-working machines. Tilting table for.....	B. G. Luther.....	370,633	Sept. 27	1926	511	40	1418
Wooden pipe.....	C. P. Allen.....	359,590	Mar. 22	1733	441	38	1253
Wooden rods. Machine for polishing.....	H. Plumb.....	357,029	Feb. 1	400	{ 107 108 }	{ 38 }	496
Wooden rods or sticks. Machine for polishing.....	H. Plumb.....	357,028	Feb. 1	399	107	38	496
Wooden tub.....	B. E. Cagle.....	360,371	Mar. 29	2946	749	38	1480
Wool for spinning. Preparing.....	P. L. Klein.....	357,486	Feb. 8	1066	.....	38	629
Wool. Machine for washing.....	S. Davis.....	362,065	May 3	19	6	39	476
Wool-packing frame.....	T. Elsasser.....	369,984	Sept. 13	960	{ 253 254 }	{ 40 }	1223
Wool. Process of and apparatus for cleaning and scouring.....	C. Robeson.....	372,987	Nov. 8	1057	283	41	674
Woven fabric.....	C. Hoult and T. W. Heinemann.....	356,836	Feb. 1	128	35	38	447
Woven fabric.....	R. H. H. Hunt.....	361,360	Apr. 19	1398	359	39	275
Woven fabric.....	W. Talbot.....	372,343	Nov. 1	88	26	41	488
Woven pile fabric.....	J. Dobson.....	373,553	Nov. 22	1946	516	41	859
Wrapping for meats, clothes, &c.....	J. A. Mathieu.....	359,166	Mar. 8	1068	.....	38	1108
Wrecking-machine.....	S. Neff.....	363,535	May 24	2081	539	39	889
Wrench: See Adjustable wrench. Nut-wrench. Carriage-wrench. Pipe-wrench. Chain-wrench. Ratchet-wrench. Combination-wrench. Sprocket-wheel wrench. Lever-wrench. Wire-twisting wrench.							
Wrench.....	A. J. Barber.....	370,848	Oct. 4	145	39	41	29
Wrench.....	H. Bowhall.....	374,928	Dec. 20	1100	287	41	1278
Wrench.....	M. E. Campfield.....	371,302	Oct. 11	803	205	41	165
Wrench.....	A. A. Coon.....	366,648	July 19	1238	331	40	252
Wrench.....	L. P. Croswell.....	367,703	Aug. 2	519	143	40	549
Wrench.....	C. D. Cutts and E. E. Scates.....	355,641	Jan. 4	469	125	38	92
Wrench.....	C. Farner.....	355,444	Jan. 4	196	52	38	40
Wrench.....	A. D. Gates.....	357,986	Feb. 15	1804	473	38	775
Wrench.....	J. F. Guthrie, Jr.....	359,722	Mar. 22	1914	485	38	1287
Wrench.....	C. W. Hale.....	372,750	Nov. 8	687	190	41	609
Wrench.....	J. M. Haynes.....	375,155	Dec. 20	1437	376	41	1341
Wrench.....	S. Hookey and N. J. Reiter.....	361,287	Apr. 19	1295	332	39	257
Wrench.....	W. Humphreys.....	362,278	May 3	293	81	39	530
Wrench.....	T. Lantt.....	361,704	Apr. 26	1886	488	39	376
Wrench.....	R. B. Marks.....	364,765	June 14	800	211	39	1245
Wrench.....	W. C. Marr.....	363,901	May 31	2598	675	39	993
Wrench.....	C. E. Murray.....	375,712	Dec. 27	2196	571	41	1494
Wrench.....	R. W. Philips.....	366,246	July 12	686	186	40	137
Wrench.....	W. B. Risdon.....	362,661	May 10	847	232	39	638
Wrench.....	W. L. Russell.....	358,886	Mar. 8	706	174	38	1039
Wrench.....	F. C. Sawhill.....	360,731	Apr. 5	477	122	39	89
Wrench.....	W. E. Taft.....	362,908	May 10	1197	320	39	703
Wrench.....	V. J. Van Horn.....	370,507	Sept. 27	1735	461	40	1383
Wringer: See Clothes-wringer. Tobacco-wringer. Mop-wringer.							
Writing-case. Pocket.....	R. R. Pember and E. B. Snedigar.....	362,106	May 3	81	25	39	488
Writings, &c. Reproducing.....	O. Steuer.....	356,296	Jan. 18	1430	.....	38	289
Yarn. Apparatus for sizing.....	W. P. Canning.....	360,654	Apr. 5	372	94, 95	39	71
Yarn-dresser.....	W. S. Kenyon.....	357,208	Feb. 8	690	178	38	558
Yarn. Finishing mixture for cotton.....	H. Adams.....	365,957	July 5	288	76	40	55
Yarn from the chain. Machine for spooling.....	J. Stone.....	365,949	July 5	279	73	40	53
Yarn in cops. Apparatus for dyeing, scouring, and bleaching.....	A. Graemiger.....	372,795	Nov. 8	767	208	41	622
Yarn in cops. Apparatus for dyeing, scouring, bleach- ing, and otherwise treating.....	H. Richmond.....	372,767	Nov. 8	712	{ 196 197 }	{ 41 }	614
Yarn in cops. Apparatus for dyeing, scouring, bleach- ing, and otherwise treating.....	H. Richmond.....	372,768	Nov. 8	723	{ 197 198 }	{ 41 }	615
Yarn or thread. Machine for inspecting.....	S. Scholfield.....	370,713	Sept. 27	2044	{ 543 544 }	{ 40 }	1440
Yarns in cops. Process of and apparatus for dyeing, scouring, bleaching, and otherwise treating.....	A. Graemiger.....	368,715	Aug. 23	1988	{ 528 529 }	{ 40 }	855
Yarns. Machine for doubling and twisting.....	H. F. West.....	371,235	Oct. 11	710	152	41	148
Yarns, &c. Making worsted.....	D. E. Coe.....	361,266	Apr. 19	1267	.....	39	253
Yoke and pole-tip. Neck.....	R. E. Lundin.....	369,606	Sept. 6	405	112	40	1112
Yoke and tongue-tip. Neck.....	A. V. Hartle.....	374,248	Dec. 6	110	28	41	1068
Yoke bar. Neck.....	C. Stoner and S. B. Welch.....	370,662	Sept. 27	1967	521	40	1426
Yoke center. Neck.....	D. J. and W. E. Sell.....	375,655	Dec. 27	2116	549	41	1479
Yoke. Neck.....	P. W. Corcoran.....	373,816	Nov. 29	2321	622	41	940
Yoke. Neck.....	H. H. Engelman.....	374,045	Nov. 29	2639	708	41	1002
Yoke. Neck.....	H. B. Leak.....	364,266	June 7	90	25	39	1106
Yoke. Neck.....	E. P. Lynch.....	375,080	Dec. 20	1328	346	41	1320
Yoke. Neck.....	R. Walker.....	365,886	July 5	180	46	40	36
Yoke. Neck.....	F. F. Wheeler.....	370,581	Sept. 27	1852	491	40	1403
Yoke. Ox.....	S. Woodward.....	363,876	May 31	2568	667	39	987
Yoke. Pole.....	E. Walter.....	374,220	Dec. 6	70	18	41	1060
Yoke swivel. Neck.....	J. M. Colman.....	368,381	Aug. 16	1503	401	40	755
Yokes. Attachment for ox.....	W. H. Williams.....	366,906	July 19	1582	423	40	316
Zinc ore. Reducing.....	E. Walsh, Jr.....	364,979	June 14	1120	292	39	1304
Zither. Pedal.....	F. Wigand.....	370,582	Sept. 27	1853	{ 491 492 }	{ 40 }	1404
Zylonite. Apparatus for working.....	J. B. Edson.....	356,108	Jan. 18	1176	311	38	241

ALPHABETICAL LIST OF DESIGNS.

Design.	Name.	No.	Date.	Official Gazette.	
				Volume.	Page.
Album-covers. Ornamentation of.....	J. Terhune.....	17,285	Apr. 26	39	366
Album-leaf.....	W. A. Holman.....	17,233	Apr. 5	39	1
Andiron.....	J. H. Hankinson.....	{ 17,168 to 17,170 }	Mar. 8	38	1019
Ash-receiver.....	J. G. Lyon.....	17,181	Mar. 15	38	1134
Badge.....	J. B. Brillbeck.....	17,738	Sept. 27	40	1344
Badge.....	N. Carman.....	{ 17,678 17,679 }	Sept. 6	40	1034
Badge.....	G. K. Cooke.....	17,867	Nov. 8	41	581
Badge.....	A. P. Davis.....	17,167	Mar. 8	38	1019
Badge.....	A. P. Davis.....	17,340	May 10	39	592
Badge.....	J. K. Davison.....	17,887	Nov. 15	41	700
Badge.....	C. Hadenfeldt.....	17,440	July 12	40	122
Badge.....	C. A. Hawley.....	17,839	Oct. 25	41	358
Badge.....	H. A. R. Horton.....	17,483	July 26	40	305
Badge.....	P. D. Keyser.....	17,294	May 3	39	471
Badge.....	W. H. Stinson.....	17,390	June 14	39	1206
Badge. Button.....	S. M. Stevens.....	17,389	June 14	39	1206
Badge or jewelry.....	H. Price.....	17,054	Jan. 4	38	2
Badge or medal.....	J. W. Maxcy.....	17,920	Dec. 6	41	1046
Badge or picture-frame.....	C. A. Breckenridge.....	17,918	Dec. 6	41	1046
Badge, pin, &c.....	C. G. Malliot.....	17,947	Dec. 13	41	1168
Badge, pin, &c.....	C. G. Malliot.....	17,983	Dec. 27	41	1394
Banner-rod.....	J. Reshower and A. Heck.....	17,877	Nov. 8	41	581
Barbers' chairs. Ornamentation of.....	T. A. Kochs.....	17,283	Apr. 26	39	366
Basque. Lady's.....	H. F. Duke.....	17,842	Nov. 1	41	469
Basque. Lady's.....	J. Sheils.....	17,751	Sept. 27	40	1344
Bath-tub.....	F. J. Torrance.....	17,902	Nov. 22	41	820
Bath-tub. Earthenware.....	W. C. Peet.....	17,410	June 21	39	1330
Bed-spring.....	S. H. Turner.....	17,951	Dec. 13	41	1168
Bedstead.....	H. Schuerman, Jr.....	17,804	Oct. 18	41	238
Bell. Sleigh.....	E. L. Brainard.....	17,164	Mar. 8	38	1019
Bell stand. Portable electric.....	C. A. Tucker.....	17,994	Dec. 27	41	1394
Belt-stud tool.....	J. A. Greene.....	17,306	May 3	39	472
Blanket. Horse.....	G. R. Ayres.....	17,806	Oct. 25	41	358
Boiler front. Steam.....	G. W. Drew.....	17,941	Dec. 13	41	1168
Book-cover.....	R. Major.....	17,376	June 7	39	1088
Boot-jack.....	J. M. Thain.....	17,392	June 14	39	1206
Boot or shoe sole protector.....	L. J. Rider.....	14,449	July 12	40	122
Bottle.....	E. A. Bailey.....	17,047	Jan. 4	38	2
Bottle.....	W. G. Black.....	17,504	Aug. 2	40	450
Bottle.....	H. Dalley, Jr.....	17,515	Aug. 2	40	450
Bottle.....	A. Goetting.....	17,222	Mar. 29	38	1370
Bottle.....	W. W. Lowrey.....	17,945	Dec. 13	41	1168
Bottle.....	F. J. Park.....	17,215	Mar. 29	38	1369
Bottle.....	W. R. Petzold.....	17,119	Feb. 15	38	664
Bottle.....	T. W. Powell.....	17,700	Sept. 6	40	1034
Bottle.....	D. C. Ripley.....	17,243	Apr. 5	39	2
Bottle.....	F. M. Sterrett.....	17,381	June 7	39	1088
Bottle.....	F. B. Warner.....	17,640	Aug. 16	40	698
Bottle.....	H. H. Warner.....	17,696	Sept. 6	40	1034
Bottle-holder.....	J. H. Hurlbut and G. W. Bean.....	17,171	Mar. 8	38	1019
Box.....	J. H. Biermann.....	17,866	Nov. 8	41	581
Box.....	J. H. Biermann.....	17,878	Nov. 15	41	700
Box.....	A. M. Fitch.....	17,146	Mar. 1	38	901
Box.....	W. H. Gardner.....	17,982	Dec. 27	41	1394
Box.....	F. A. Jones.....	17,851	Nov. 1	41	469
Box.....	A. C. Rex.....	17,394	June 14	39	1206
Box.....	C. W. Schumann.....	17,351	May 17	39	711
Bracelet.....	H. C. Lindol.....	17,070	Jan. 18	38	234
Bridle-bit.....	F. Monier.....	17,158	Mar. 1	38	902
Bridle-front.....	E. R. Cahoon.....	17,400	June 21	39	1330
Bridle-front.....	E. R. Cahoon.....	17,514	Aug. 2	40	450
Bridle-front.....	F. M. Livingston.....	{ 17,094 to 17,096 }	Feb. 8	38	545
Bridle-front.....	E. Ward.....	17,122	Feb. 15	38	664
Brooch.....	S. H. Lucas.....	17,916	Nov. 29	41	938
Broom handle. Whisk.....	J. Wright.....	17,425	June 28	39	1430
Broom holder. Whisk.....	M. Hecht.....	17,846	Nov. 1	41	469
Broom holder. Whisk.....	M. Hecht.....	17,872	Nov. 8	41	581
Broom holder. Whisk.....	W. C. Wright.....	17,836	Oct. 25	41	358
Broom-shield.....	M. A. Smith and C. F. Yaeger.....	17,177	Mar. 8	38	1019
Brush.....	C. E. Thompson.....	17,282	Apr. 26	39	366
Brush.....	C. E. Thompson.....	17,383	June 7	39	1088
Brush.....	C. E. Thompson.....	17,786	Oct. 11	41	128
Brush body. Wash.....	C. R. White.....	17,230	Mar. 29	38	1370
Brush. Hair.....	C. T. Grosjean.....	17,422	June 28	39	1430
Brush. Hat or clothes.....	C. T. Grosjean.....	17,404	June 21	39	1330
Brushes. Rubber pin-plate for metallic hair.....	F. Heazle.....	17,372	June 7	39	1088

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Design.	Name.	No.	Date.	Official Gazette.	
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Buildings. Siding for.....	L. L. Sagendorph.....	17,235	Apr. 5	39	1
Burial-casket.....	S. E. Baker.....	17,124	Feb. 22	38	786
Burial-casket.....	N. Rappleyea.....	17,760	Oct. 4	41	2
Burial-casket.....	N. Rappleyea.....	17,784	Oct. 11	41	128
Burial-casket.....	L. Stein.....	17,928	Dec. 6	41	1046
Burial-casket lid.....	L. Stein.....	17,218	Mar. 29	38	1369
Burial-casket lid.....	L. Stein.....	17,227	Mar. 29	38	1370
Burial-casket lid.....	L. Stein.....	17,245	Apr. 5	39	2
Button. Collar.....	C. A. Tucker.....	17,477	July 19	40	250
Button or similar article. Sleeve.....	J. W. Miller.....	{ 17,651 } 17,652	Aug. 23	40	814
Button, &c. Sleeve.....	J. W. Miller.....	17,691	Sept. 6	40	1034
Buttons, &c. Ornamentation of sleeve.....	J. W. Miller.....	17,633	Aug. 16	40	698
Calendar.....	C. W. Snook.....	17,379	June 7	39	1088
Cans. Casing for.....	W. Grange.....	17,221	Mar. 29	38	1369
Cap. Child's.....	H. Bamberger.....	17,254	Apr. 12	39	124
Card.....	W. A. Kelsey.....	17,308	May 3	39	472
Card-receiver.....	H. Berry.....	17,073	Jan. 25	38	334
Card-receiver.....	H. Berry.....	17,163	Mar. 8	38	1019
Card-receiver.....	H. Berry.....	17,367	June 7	39	1087
Card-receiver.....	W. C. Wright.....	17,761	Oct. 4	41	2
Card. Sample or pattern.....	E. H. Converse.....	17,386	June 14	39	1206
Carpet.....	F. Allen.....	{ 17,587 } 17,588	Aug. 9	40	580
Carpet.....	M. F. Beale.....	17,321	May 10	39	592
Carpet.....	M. F. Beale.....	{ 17,505 } to 17,513	Aug. 2	40	450
Carpet.....	M. F. Beale.....	{ 17,589 } to 17,593	Aug. 9	40	580
Carpet.....	A. Cochran.....	{ 17,434 } to 17,439	July 12	40	122
Carpet.....	W. H. Dodge.....	17,286	May 3	39	471
Carpet.....	W. H. Dodge.....	17,322	May 10	39	592
Carpet.....	H. Fawcett.....	17,869	Nov. 8	41	581
Carpet.....	H. Fawcett.....	{ 17,889 } to 17,891	Nov. 22	41	820
Carpet.....	H. Fawcett.....	{ 17,957 } to 17,969	Dec. 20	41	1275
Carpet.....	E. Fisher.....	{ 17,288 } to 17,292	May 3	39	471
Carpet.....	E. Fisher.....	17,323	May 10	39	592
Carpet.....	E. Fisher.....	{ 17,368 } to 17,371	June 7	39	{ 1087 } 1088
Carpet.....	E. Fisher.....	{ 17,516 } to 17,520	Aug. 2	40	450
Carpet.....	E. Fisher.....	{ 17,596 } to 17,598	Aug. 9	40	580
Carpet.....	E. Fisher.....	{ 17,706 } to 17,708	Sept. 13	40	1140
Carpet.....	J. Fisher.....	17,709	Sept. 13	40	1140
Carpet.....	J. L. Folsom.....	17,211	Mar. 29	38	1369
Carpet.....	J. L. Folsom.....	17,238	Apr. 5	39	2
Carpet.....	J. L. Folsom.....	{ 17,435 } to 17,439	July 12	40	122
Carpet.....	J. L. Folsom.....	{ 17,480 } to 17,481	July 26	40	350
Carpet.....	J. L. Folsom.....	{ 17,521 } to 17,571	Aug. 2	40	450
Carpet.....	J. L. Folsom.....	{ 17,599 } to 17,606	Aug. 9	40	580
Carpet.....	J. L. Folsom.....	{ 17,622 } to 17,623	Aug. 9	40	580
Carpet.....	J. L. Folsom.....	17,643	Aug. 23	40	814
Carpet.....	J. L. Folsom.....	17,666	Aug. 30	40	922
Carpet.....	J. L. Folsom.....	17,739	Sept. 27	40	1344
Carpet.....	J. L. Folsom.....	{ 17,807 } to 17,808	Oct. 25	41	358
Carpet.....	J. L. Folsom.....	17,870	Nov. 8	41	581
Carpet.....	J. L. Folsom.....	17,970	Dec. 20	41	1275
Carpet.....	C. F. Gedney.....	17,930	Dec. 6	41	1046
Carpet.....	W. T. Gouch.....	{ 17,763 } to 17,766	Oct. 11	41	128
Carpet.....	A. L. Halliday.....	{ 17,767 } to 17,775	Oct. 11	41	128
Carpet.....	A. L. Halliday.....	17,844	Nov. 1	41	469
Carpet.....	A. L. Halliday.....	17,973	Dec. 20	41	1275
Carpet.....	O. Heinigke.....	{ 17,250 } to 17,251	Apr. 12	39	124
Carpet.....	O. Heinigke.....	{ 17,644 } to 17,645	Aug. 23	40	814

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Design.	Name.	No.	Date.	Official Gazette.	
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Carpet	O. Heinigke	{ 17,742 } 17,743	Sept. 27	40	1344
Carpet	E. H. Hill	{ 17,609 } 17,610	Aug. 9	40	580
Carpet	H. Horan	{ 17,258 } to 17,268	Apr. 19	39	248
Carpet	H. Horan	{ 17,373 } 17,374	June 7	39	1088
Carpet	H. Horan	{ 17,711 } to 17,716	Sept. 13	40	1140
Carpet	H. Horan	{ 17,815 } to 17,817	Oct. 25	41	358
Carpet	H. Horan	{ 17,931 } to 17,933	Dec. 6	41	1046
Carpet	H. Hunt	17,201	Mar. 22	38	1252
Carpet	H. Hunt	17,223	Mar. 29	38	1370
Carpet	H. Hunt	17,307	May 3	39	472
Carpet	H. Hunt	{ 17,442 } 17,443	July 12	40	122
Carpet	H. Hunt	{ 17,501 } 17,502	July 26	40	356
Carpet	H. Hunt	17,646	Aug. 23	40	814
Carpet	H. Hunt	17,681	Sept. 6	40	1034
Carpet	H. Hunt	17,818	Oct. 25	41	358
Carpet	W. L. Jacobs	17,202	Mar. 22	38	1252
Carpet	W. L. Jacobs	{ 17,252 } 17,253	Apr. 12	39	124
Carpet	W. L. Jacobs	{ 17,444 } 17,445	July 12	40	122
Carpet	W. L. Jacobs	{ 17,484 } to 17,488	July 26	40	350
Carpet	W. L. Jacobs	17,503	July 26	40	350
Carpet	W. L. Jacobs	17,717	Sept. 13	40	1140
Carpet	W. L. Jacobs	{ 17,819 } to 17,824	Oct. 25	41	358
Carpet	A. Kaeslin	17,447	July 12	40	122
Carpet	N. Komori	{ 17,730 } to 17,733	Sept. 20	40	1246
Carpet	N. Komori	17,852	Nov. 1	41	469
Carpet	M. R. Loudon	17,778	Oct. 11	41	128
Carpet	J. Lyall	17,779	Oct. 11	41	128
Carpet	W. McCallum	17,946	Dec. 13	41	1168
Carpet	J. McMann	17,934	Dec. 6	41	1046
Carpet	T. E. Meagher	{ 17,461 } to 17,471	July 19	40	250
Carpet	T. E. Meagher	{ 17,611 } 17,612	Aug. 9	40	580
Carpet	J. Neil	{ 17,780 } to 17,782	Oct. 11	41	128
Carpet	H. North	17,214	Mar. 29	38	1369
Carpet	E. Poole	{ 17,309 } to 17,316	May 3	39	472
Carpet	E. Poole	{ 17,826 } to 17,829	Oct. 25	41	358
Carpet	O. Righter	{ 17,492 } to 17,500	July 26	40	350
Carpet	O. Righter	17,654	Aug. 23	40	814
Carpet	O. Righter	{ 17,721 } to 17,723	Sept. 13	40	1140
Carpet	F. A. Rugen	17,206	Mar. 22	38	1252
Carpet	F. A. Rugen	17,450	July 12	40	122
Carpet	E. G. Sauer	{ 17,271 } to 17,274	Apr. 19	39	248
Carpet	E. G. Sauer	17,317	May 3	39	472
Carpet	E. G. Sauer	17,377	June 7	39	1088
Carpet	E. G. Sauer	{ 17,936 } 17,937	Dec. 6	41	1046
Carpet	W. E. Sayers	{ 17,662 } 17,663	Aug. 23	40	814
Carpet	J. G. Speck	{ 17,416 } to 17,418	June 28	39	1430
Carpet	J. G. Speck	{ 17,655 } to 17,661	Aug. 23	40	814
Carpet	J. Spring	17,785	Oct. 11	41	128
Carpet	C. W. Swapp	{ 17,298 } to 17,305	May 3	39	472
Carpet	C. W. Swapp	{ 17,318 } 17,319	May 3	39	472

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Carpet.....	C. W. Swapp	{ 17,335 to 17,337 }	May 10	39	592
Carpet.....	C. W. Swapp.....	17,382	June 7	39	1088
Carpet.....	C. W. Swapp	{ 17,580 to 17,586 }	Aug. 2	40	450
Carpet	C. W. Swapp	{ 17,617 to 17,620 }	Aug. 9	40	580
Carpet.....	C. W. Swapp	{ 17,724 to 17,726 }	Sept. 13	40	1140
Carpet	G. D. Tew	17,753	Sept. 27	40	1344
Carpet.....	L. W. Valentine	17,320	May 3	39	472
Carpet.....	J. T. Webster.....	{ 17,452 to 17,455 }	July 12	40	122
Carpet	J. Wishart.....	{ 17,788 to 17,790 }	Oct. 11	41	128
Carpet	J. Wishart.....	17,862	Nov. 1	41	470
Carpet.....	J. Wishart.....	17,929	Dec. 6	41	1046
Carpet.....	G. C. Wright	{ 17,833 to 17,835 }	Oct. 25	41	358
Carpets, &c. Ornamental border for.....	E. E. Johnson	17,293	May 3	39	471
Carriage-body	P. Gendron	17,129	Feb. 22	38	786
Carriages. Canopy-top for children's	P. Gendron	17,893	Nov. 22	41	820
Casket-lid	J. Maxwell	17,108	Feb. 8	38	546
Casket lid. Burial.....	J. Maxwell	17,650	Aug. 23	40	814
Ceiling-decoration	M. Mellinger.....	17,746	Sept. 27	40	1344
Chain-link	T. A. Shinn.....	17,364	May 31	39	964
Chain-link.....	T. A. Shinn	17,378	June 7	39	1088
Chair.....	R. J. Bump	17,939	Dec. 13	41	1168
Chair.....	J. Lueders	17,375	June 7	39	1088
Chair-back	F. Kohn	17,448	July 12	40	122
Cigar-ashes, &c. Holder for	E. Putnam and J. Kirschbaum.....	17,296	May 3	39	472
Cigar-box	D. Allen	17,046	Jan. 4	38	2
Cigar lighter and cutter stand.....	J. Kaufmann.....	17,630	Aug. 16	40	698
Clock-case.....	C. Casper	17,237	Apr. 5	39	2
Clock-case. Banjo	L. C. Hiller	17,075	Jan. 25	38	334
Coal grate or basket.....	J. H. Hankinson.....	17,974	Dec. 20	41	1275
Coat. Child's	E. L. Jenkins	17,825	Oct. 25	41	358
Coat, hat, and umbrella rack	J. Maxwell	17,460	July 19	40	250
Coat. Lady's	L. Roys	17,855	Nov. 1	41	470
Coat. Little girl's.....	M. V. Kavanagh	17,943	Dec. 13	41	1168
Coat or hat rack	J. Maxwell	17,429	July 5	40	2
Coffin ornament	W. E. Stevens	17,142	Feb. 22	38	786
Coffin-trimming	C. A. Bailey	17,366	June 7	39	1087
Coffin-trimmings	F. S. Ely	17,793	Oct. 18	41	238
Collar. Detachable	L. Robinson	17,188	Mar. 15	38	1134
Collar. Lady's.....	M. Noullett.....	17,692	Sept. 6	40	1034
Color-plate	J. S. Clark	17,127	Feb. 22	38	786
Corset.....	J. Bowers	17,048	Jan. 4	38	2
Corset.....	J. Bowers	17,126	Feb. 22	38	786
Corset.....	H. H. Chittenden	17,049	Jan. 4	38	2
Corset.....	P. T. Hertzog.....	17,242	Apr. 5	39	2
Corset.....	I. Newman	17,204	Mar. 22	38	1252
Corset.....	C. L. Olmstead and A. D. Nason.....	17,388	June 14	39	1206
Corsets. Ornamentation of	M. P. Bray.....	17,398	June 21	39	1330
Corsets. Ornamentation of	C. A. Griswold.....	{ 17,079 to 17,081 }	Feb. 1	38	421
Corsets. Ornamentation of	C. A. Griswold.....	17,088	Feb. 8	38	545
Corsets. Ornamentation of	C. A. Griswold.....	17,179	Mar. 15	38	1134
Costume. Girl's	E. L. Jenkins	17,682	Sept. 6	40	1034
Costume. Girl's	E. L. Jenkins	17,849	Nov. 1	41	469
Costume. Girl's	E. L. Jenkins	17,912	Nov. 29	41	938
Costume. Girl's	C. Sheils	17,750	Sept. 27	40	1344
Costume. Girl's	C. Sheils	17,856	Nov. 1	41	470
Costume. Lady's	H. F. Duke	17,792	Oct. 18	41	238
Costume. Lady's	H. F. Duke	17,908	Nov. 29	41	938
Costume. Lady's	E. Moran	17,926	Dec. 6	41	1046
Costume. Lady's	E. Moran	17,948	Dec. 13	41	1168
Costume. Lady's	J. Sheils	{ 17,857 to 17,858 }	Nov. 1	41	470
Costume. Lady's	J. Sheils	17,883	Nov. 15	41	700
Costume. Lady's	J. Sheils	17,917	Nov. 29	41	938
Costume. Lady's	J. Sheils	17,949	Dec. 13	41	1168
Costume. Lady's	J. Sheils	17,976	Dec. 20	41	1275
Costume. Lady's	M. Turner	17,860	Nov. 1	41	470
Costume. Miss's	E. L. Jenkins.....	17,776	Oct. 11	41	128
Costume. Miss's	E. L. Jenkins.....	17,850	Nov. 1	41	469
Costume. Miss's	M. Turner	17,754	Sept. 27	40	1344
Costume. Miss's	M. Turner	17,861	Nov. 1	41	470
Cracker. Biscuit.....	J. Hartman	17,757	Oct. 4	41	2
Cup	C. E. Haviland.....	17,059	Jan. 11	38	110
Cups, &c. Handle for.....	W. H. Berger.....	17,360	May 31	39	964
Curtain.....	J. Ferguson.....	{ 17,980 to 17,981 }	Dec. 27	41	1394
Curtain fabric.....	C. Wheeler.....	{ 17,228 to 17,229 }	Mar. 29	38	1370
Cuspidor	F. D. Mersereau	17,358	May 24	39	836
Cuspidor	W. T. Mersereau	17,747	Sept. 27	40	1344

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Design.	Name.	No.	Date.	Official Gazette.	
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Desk-furniture	H. G. Smith	17,252	May 17	39	711
Dish	T. B. Atterbury	17,192	Mar. 15	38	1134
Dish	C. E. Haviland	17,074	Jan. 25	38	334
Dish. Deep	C. E. Haviland	17,058	Jan. 11	38	110
Dishes	J. Slater	17,859	Nov. 1	41	470
Dishes. Handle for	C. E. Haviland	17,063	Jan. 11	38	110
Dishes. Ornamentation of	C. E. Haviland	{ 17,060 to 17,062 }	Jan. 11	38	110
Dishes. Ornamentation of	C. E. Haviland	{ 17,068 to 17,069 }	Jan. 18	38	234
Dress. Girl's	E. L. Jenkins	17,942	Dec. 13	41	1168
Drum-case	J. H. Foote and G. S. Knapp	17,147	Mar. 1	38	901
Easel	T. A. Abbott	17,396	June 21	39	1336
Easel	M. W. Carr	17,220	Mar. 29	38	1369
Easel	M. W. Carr	17,231	Mar. 29	38	1370
Easel	E. B. Crocker	17,066	Jan. 18	38	234
Electric-motor frame	W. Baxter, Jr.	17,256	Apr. 12	39	124
Eraser. Rubber	G. A. Goldsmith	{ 17,971 to 17,972 }	Dec. 20	41	1275
Fabric	J. Z. Coblenz	17,879	Nov. 15	41	700
Fabric	J. Z. Coblenz	17,919	Dec. 6	41	1046
Fabric	M. Landenberger, Jr.	17,489	July 26	40	350
Fabric	M. Landenberger, Jr.	17,648	Aug. 23	40	814
Fabric	F. S. Pinkus	17,993	Dec. 27	41	1394
Fabric	C. B. Smith	17,178	Mar. 8	38	1019
Fabric	C. B. Smith	17,244	Apr. 5	39	2
Fabrics. Ornamentation of	W. S. Friedlander	17,880	Nov. 15	41	700
Fan	A. L. Brainard	17,703	Sept. 13	40	1140
Fence-bar	A. J. Griffin	17,239	Apr. 5	39	2
Finger-ring	W. A. Bryant	17,906	Nov. 29	41	938
Fire-place back	J. L. Gobeille and H. Matzen	17,343	May 10	39	592
Fire-place heater	G. G. Wolfe	17,209	Mar. 22	38	1252
Flower-piece	A. Le Mout	17,875	Nov. 8	41	581
Flower-piece. Mourning	A. Le Mout	17,490	July 26	40	350
Flower-stand	W. M. Pfitzner	17,205	Mar. 22	38	1252
Frame	W. H. Tomey	17,787	Oct. 11	41	128
Frieze decoration	M. Mellinger	17,745	Sept. 27	40	1344
Fringe	H. Siedentop	17,805	Oct. 18	41	238
Game-board	N. Kohler	17,915	Nov. 29	41	938
Game-counter	A. Ball	17,249	Apr. 12	39	124
Gas-bracket	J. Wright	17,863	Nov. 1	41	470
Gas-fixture	F. Hickman	17,078	Feb. 1	38	421
Gateway or entrance for cemeteries	G. Bright	17,166	Mar. 8	38	1019
Gimp	I. H. Leiter	17,325	May 10	39	592
Glass dish	G. L. Abbott	17,110	Feb. 15	38	663
Glass. Drinking-	J. Gallinger	17,795	Oct. 18	41	238
Glass, &c. Ornamentation of	T. G. Hawkes	{ 17,837 to 17,838 }	Oct. 25	41	358
Glass. Sheet-	A. L. Rowe	{ 17,734 to 17,737 }	Sept. 20	40	1246
Glassware. Ornamentation of	W. C. Anderson	17,072	Jan. 25	38	334
Glassware. Ornamentation of	D. Forbes	17,086	Feb. 8	38	545
Glassware. Ornamentation of	A. Snow, Jr.	17,380	June 7	39	1088
Globes and similar articles. Ornamentation of	A. Kribs	17,149	Mar. 1	38	901
Grate. Fire-place	B. G. and W. R. Dawson	{ 17,401 to 17,402 }	June 21	39	1330
Grinding-mills. Frame for portable	P. Hobler	17,051	Jan. 4	38	2
Handle for spoons, forks, &c	E. J. Stanton	17,637	Aug. 16	40	698
Hardware. Ornamentation of builders'	R. W. E. Christesen	17,344	May 17	39	711
Harness-trimming chain	A. La Francis	17,356	May 24	39	835
Hat	C. J. Heller	17,710	Sept. 13	40	1140
Hat-rack	J. Howell and J. W. Anderson	17,911	Nov. 29	41	938
Hat-rack	J. R. Palmenberg	17,098	Feb. 8	38	545
Hat-rack	J. R. Palmenberg	17,676	Aug. 30	40	922
Hat-rack. Hall	T. Hertwig	17,180	Mar. 15	38	1134
Head-wear	A. Brahadi	17,232	Apr. 5	39	1
Heel-plate	F. H. Richards	17,431	July 5	40	2
Hinge	G. S. Barkentin	17,255	Apr. 12	39	124
Hinge	J. Tiebout	17,084	Feb. 1	38	421
Hood	L. M. Frank	17,728	Sept. 20	40	1246
Hood	M. A. Metz	17,748	Sept. 27	40	1344
Hood	J. H. Whipple	{ 17,246 to 17,247 }	Apr. 5	39	2
Hood fabric	F. W. Henson	17,441	July 12	40	122
Horse-blanket	G. R. Ayres	17,144	Mar. 1	38	901
Horse-blanket	G. R. Ayres	17,865	Nov. 8	41	581
Horse-blankets. Fabric for	G. R. Ayres	17,938	Dec. 13	41	1168
Horse-boot	T. Morgan	17,053	Jan. 4	38	2
Horse-sheet	G. R. Ayres	17,864	Nov. 8	41	581
Hot-air-register front	W. Schickel	17,411	June 21	39	1330
Hub. Wheel-	J. Maris	17,719	Sept. 13	40	1140
Ice-machine frame	W. J. Ferguson	17,210	Mar. 29	38	1369
Inkstand and pen-rack	T. E. Ellerby	17,456	July 19	40	250
Intaglio	A. Becker	17,399	June 21	39	1330
Knapsack. School-	M. Becker	17,791	Oct. 18	41	238
Knit fabric	J. H. Osborne	{ 17,193 to 17,195 }	Mar. 15	38	1134
Knitted fabric	O. T. Jennings	17,873	Nov. 8	41	581
Knitted fabric	J. H. Osborne	17,097	Feb. 8	38	545
Knob or bell-pull. Door-	T. Village	17,207	Mar. 22	38	1252
Knob and latch escutcheon-plate	G. S. Barkentin	17,338	May 10	39	592

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Knob. Door.....	G. S. Barkentin.....	17,339	May 10	39	592
Lamp.....	W. A. Hull.....	17,848	Nov. 1	41	469
Lamp.....	P. E. Guerin.....	17,667	Aug. 30	40	922
Lamp-body.....	J. K. Brown.....	17,979	Dec. 27	41	1394
Lamp-burner.....	L. Henkle.....	17,090	Feb. 8	38	545
Lamp. Candle.....	S. Clarke.....	17,355	May 24	39	835
Lamp-chimney.....	G. W. Blair.....	17,478	July 26	40	350
Lamp-chimney.....	J. F. Miller.....	17,853	Nov. 1	41	469
Lamp-collar.....	H. W. Hayden.....	17,871	Nov. 8	41	581
Lamp fixture. Hanging.....	A. Patitz.....	17,927	Dec. 6	41	1046
Lamp-pedestal.....	J. Gallinger.....	{ 17,278 } 17,279	Apr. 26	39	366
Lamp-standard.....	P. E. Guerin.....	17,050	Jan. 4	38	2
Lamp-standard.....	F. Seipelt.....	17,161	Mar. 1	38	902
Lamps. Harp for hanging.....	A. Patitz.....	17,876	Nov. 8	41	581
Lamps. Harp for hanging.....	A. Patitz.....	17,881	Nov. 15	41	700
Letter-heads, &c. Ornamentation of.....	G. G. Ward.....	17,977	Dec. 20	41	1275
Lock case. Hasp.....	F. W. Mix.....	17,670	Aug. 30	40	922
Loom-picker.....	C. H. Hamilton.....	17,427	July 5	40	2
Match-holder.....	R. H. Eastburn.....	17,199	Mar. 22	38	1251
Mattresses. Frame for wire.....	W. S. Seymour.....	17,055	Jan. 4	38	2
Meat-rack.....	C. Gloekler.....	17,796	Oct. 18	41	238
Medal.....	N. Frere.....	17,843	Nov. 1	41	469
Medicine-register.....	I. W. Chisholm and C. S. Johnson.....	17,907	Nov. 29	41	938
Mirror frame. Hand.....	C. T. Grosjean.....	17,421	June 28	39	1430
Molding.....	F. Mankey.....	17,131	Feb. 22	38	786
Molding.....	F. Mankey.....	{ 17,134 } 17,135	Feb. 22	38	786
Molding.....	F. Mankey.....	{ 17,137 } to 17,139	Feb. 22	38	786
Molding.....	F. Mankey.....	17,182	Mar. 15	38	1134
Molding.....	F. Mankey.....	17,226	Mar. 29	38	1370
Musical-instrument case.....	T. Hill.....	17,482	July 26	40	350
Musical-instrument case.....	T. Hill.....	17,625	Aug. 9	40	580
Numerals. Font of.....	W. F. Stark.....	17,831	Oct. 25	41	358
Nut-cracker.....	A. D. Judd.....	17,446	July 12	40	122
Oil-cloth.....	C. T. and V. E. Meyer.....	{ 17,151 } to 17,157	Mar. 1	38	{ 901 } 902
Oil-cloth.....	C. T. and V. E. Meyer.....	{ 17,326 } to 17,334	May 10	39	592
Oil-cloth.....	C. T. and V. E. Meyer.....	{ 17,405 } to 17,409	June 21	39	1330
Oil-cloth.....	C. T. and V. E. Meyer.....	{ 17,683 } to 17,690	Sept. 6	40	1034
Oil-cloth.....	C. T. and V. E. Meyer.....	{ 17,895 } to 17,899	Nov. 22	41	820
Oil-cloth.....	C. T. and V. E. Meyer.....	{ 17,921 } to 17,925	Dec. 6	41	1046
Oil-cloth.....	C. T. and V. E. Meyer.....	{ 17,984 } to 17,988	Dec. 27	41	1394
Organ-case.....	E. S. Votey.....	17,952	Dec. 13	41	1168
Ox-shoe.....	J. Deeble.....	17,595	Aug. 9	40	580
Panel.....	F. Mankey.....	17,083	Feb. 1	38	421
Panel.....	F. Mankey.....	{ 17,112 } to 17,117	Feb. 15	38	664
Panel.....	F. Mankey.....	17,136	Feb. 22	38	786
Panel.....	F. Mankey.....	17,140	Feb. 22	38	786
Panel.....	F. Mankey.....	{ 17,183 } to 17,185	Mar. 15	38	1134
Panel.....	F. Mankey.....	17,203	Mar. 22	38	1252
Panel.....	F. Mankey.....	{ 17,224 } 17,225	Mar. 29	38	1370
Panel. Open-work.....	F. Mankey.....	17,132	Feb. 22	38	786
Paper. Shelf.....	S. Rosenblüh.....	17,840	Oct. 25	41	358
Paper-weight, match-safe, &c.....	J. C. Gill.....	17,148	Mar. 1	38	901
Pastry-wafer.....	G. A. Mayer.....	17,150	Mar. 1	38	901
Pianos. Ornamental panel for.....	J. Hardman.....	17,729	Sept. 20	40	1246
Picture-frame.....	W. Levin.....	17,944	Dec. 13	41	1168
Picture-hanger.....	W. M. Brinkerhoff.....	17,704	Sept. 13	40	1140
Picture or mirror frame.....	L. J. Eissler.....	17,287	May 3	39	471
Piled fabric.....	E. W. Tingle.....	17,451	July 12	40	122
Pitcher.....	H. Podmore.....	17,635	Aug. 16	40	698
Pitcher or vase.....	E. A. Brownfield.....	17,426	July 5	40	2
Plaque.....	W. M. Pfützner.....	17,065	Jan. 11	38	110
Plaque.....	W. M. Pfützner.....	{ 17,216 } 17,217	Mar. 29	38	1369
Pocket-book clasps, &c. Ornamentation of.....	J. Lambert.....	17,324	May 10	39	592
Polonaise. Lady's.....	M. Turner.....	17,885	Nov. 15	41	700
Print-cloth.....	J. B. Harley.....	17,414	June 28	39	1430
Pulley.....	R. Osterhorn.....	17,187	Mar. 15	38	1184
Pulleys. Housing or frame for sash.....	G. Kühn.....	17,173	Mar. 8	38	1019
Purse.....	I. Heymann.....	17,107	Feb. 8	38	546
Quilted fabric.....	A. Hildt.....	{ 17,092 } 17,093	Feb. 8	38	545

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette.	
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Radiator.....	L. H. Prentice.....	17,270	Apr. 19	39	248
Radiator-screen.....	E. Gurney.....	17,240	Apr. 5	39	2
Radiator. Steam.....	H. Parmelee.....	17,614	Aug. 9	40	580
Radiators. Ornamentation of.....	J. B. Pierce and J. Bond.....	17,615	Aug. 9	40	580
Railing.....	J. W. Bessell.....	17,702	Sept. 13	40	1140
Railing-bracket.....	J. F. Wollensak.....	17,395	June 14	39	1206
Railway-rail.....	W. Wharton, Jr., and E. Samuel.....	{ 17,190 } 17,191	Mar. 15	38	1134
Railway-rail.....	W. Wharton, Jr., and E. Samuel.....	17,365	May 31	39	964
Railway-rail.....	W. Wharton, Jr., and E. Samuel.....	17,384	June 7	39	1088
Range or cooking-stove.....	E. L. Calely.....	17,953	Dec. 20	41	1275
Rasp or file.....	W. H. Clarke.....	17,413	June 28	39	1430
Rattle.....	H. E. Collins.....	17,077	Feb. 1	38	421
Register front. Hot-air.....	S. Tuttle, Jr.....	17,639	Aug. 16	40	698
Rug.....	G. B. Fox.....	17,087	Feb. 8	38	545
Rug.....	G. B. Fox.....	17,892	Nov. 22	41	820
Rug.....	J. Pegel.....	{ 17,099 } 17,100	Feb. 8	38	546
Rug.....	J. Pegel.....	17,141	Feb. 22	38	786
Rug.....	J. Pegel.....	17,160	Mar. 1	38	902
Rug.....	J. Pegel.....	{ 17,473 } to 17,475	July 19	40	250
Rug.....	J. Pegel.....	17,491	July 26	40	350
Rug.....	J. Pegel.....	17,636	Aug. 16	40	698
Rug.....	J. Pegel.....	17,653	Aug. 23	40	814
Rug.....	J. Pegel.....	{ 17,989 } to 17,992	Dec. 27	41	1394
Rug.....	A. Petzold.....	17,118	Feb. 15	38	664
Rug.....	A. Petzold.....	{ 17,174 } 17,175	Mar. 8	38	1019
Rug.....	A. Petzold.....	17,196	Mar. 15	38	1134
Rug.....	A. Petzold.....	{ 17,900 } 17,901	Nov. 22	41	820
Rug.....	A. Weiss.....	{ 17,903 } 17,904	Nov. 22	41	820
Sachet. Perfumed.....	A. M. Huntington.....	17,423	June 28	39	1430
Sad-iron.....	H. P. Carver.....	17,642	Aug. 23	40	814
Scarf.....	A. Hellenberg.....	17,608	Aug. 9	40	580
Scarf.....	W. H. Herzog.....	17,847	Nov. 1	41	469
Scarf-pin.....	G. P. Hayes.....	17,845	Nov. 1	41	469
Scarf-pin or brooch.....	C. W. Schumann.....	17,123	Feb. 15	38	664
Screens, &c. Ornamentation of fire.....	J. Modini.....	17,234	Apr. 5	39	1
Seal. Camp.....	A. P. Davis.....	17,954	Dec. 20	41	1275
Sewing-machine cabinet.....	N. Wheeler.....	17,905	Nov. 22	41	820
Sewing-machine cover.....	T. Kundtz.....	17,415	June 28	39	1430
Sewing-machines. Leg or side frame for.....	L. B. Miller.....	17,052	Jan. 4	38	2
Sheet metal. Ornamentation of.....	H. L. Palmer.....	17,472	July 19	40	250
Sheet metal. Ornamentation of.....	J. Wood.....	17,621	Aug. 9	40	580
Shirt-front. Ornamentation of a.....	H. Rosenbaum.....	17,297	May 3	39	472
Shoe.....	J. Elderken.....	17,705	Sept. 13	40	1140
Shoe-uppers. Pattern for.....	I. Nielson.....	17,281	Apr. 26	39	366
Shovel cleaner or knife.....	C. Legler.....	17,295	May 3	39	471
Sign. Watch-maker's.....	L. S. Grout.....	17,213	Mar. 29	38	1369
Signs. Letters for.....	R. F. Gillin.....	17,624	Aug. 9	40	580
Silver plate. Ornamentation of.....	H. Berry and J. B. Beach.....	17,677	Sept. 6	40	1034
Sink-standard.....	F. A. Walls.....	17,832	Oct. 25	41	358
Skirt. Lady's walking.....	H. F. Duke.....	17,955	Dec. 20	41	1275
Skirt. Lady's walking.....	J. Sheils.....	17,882	Nov. 15	41	700
Skirt. Lady's walking.....	M. Turner.....	17,886	Nov. 15	41	700
Skirt. Walking.....	J. Sheils.....	17,695	Sept. 6	40	1034
Skirts, linings, &c. Ornamentation of.....	A. Hildt.....	{ 17,809 } to 17,814	Oct. 25	41	358
Sleigh-body.....	O. Unzicker.....	17,275	Apr. 19	39	248
Sleigh. Landau.....	J. Kingsbury.....	17,631	Aug. 16	40	698
Sleigh. Landau.....	J. Kingsbury.....	17,874	Nov. 8	41	581
Slop-jar.....	H. Podmore.....	17,634	Aug. 16	40	698
Smoking-set.....	M. Hecht.....	17,741	Sept. 27	40	1344
Snap-hook.....	O. P. Letchworth.....	17,975	Dec. 20	41	1275
Soap-box.....	W. P. Hansell.....	{ 17,056 } 17,057	Jan. 11	38	110
Spoon, &c.....	R. H. Klingel and W. L. Wilks.....	17,777	Oct. 11	41	128
Spoon.....	F. Schmidt.....	17,749	Sept. 27	40	1344
Spoon, &c.....	C. Witteck.....	17,248	Apr. 5	39	2
Spoon or fork handle.....	H. W. Hayden.....	17,241	Apr. 5	39	2
Spoons, forks, &c. Handle for.....	H. A. Pistorius.....	17,756	Sept. 27	40	1344
Spoons, forks, &c. Handle for.....	H. A. Pistorius.....	17,783	Oct. 11	41	128
Spoons, &c. Ornamentation for the handles of.....	W. Wilkinson.....	17,277	Apr. 19	39	248
Starching-machines. Frame for.....	F. M. Watkins.....	17,105	Feb. 8	38	546
Statuary. Group of.....	J. Rogers.....	17,102	Feb. 8	38	546
Statuary. Group of.....	J. Rogers.....	17,363	May 31	39	964
Statue.....	P. Dumont.....	17,106	Feb. 8	38	546
Statuette.....	R. T. Crane.....	17,594	Aug. 9	40	580
Statuette.....	B. L. Pratt.....	17,854	Nov. 1	41	469
Steam-radiator. Hot-closet.....	C. Rohlf.....	17,197	Mar. 15	38	1134
Stove.....	L. Kahn and R. Thiem.....	17,172	Mar. 8	38	1019
Stove.....	H. Terstegge, F. H. Gohmann, W. A. Stratton, and R. H. Gohmann.....	17,257	Apr. 12	39	124
Stove-boards. Surface ornamentation of.....	T. Johnson.....	{ 17,913 } 17,914	Nov. 29	41	938
Stove. Cooking.....	W. J. Dodd.....	17,420	June 28	39	1430
Stove. Cooking.....	L. Kahn and R. Thiem.....	17,744	Sept. 27	40	1344

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette.	
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Stove. Cooking.....	L. Kahn and R. Thiem.....	17,798	Oct. 18	41	238
Stove. Cooking.....	J. A. Price.....	17,430	July 5	40	2
Stove. Cooking.....	H. Smith.....	17,576	Aug. 2	40	450
Stove. Gas.....	J. L. Sharp.....	17,638	Aug. 16	40	698
Stove. Heating.....	E. W. Anthony.....	17,641	Aug. 23	40	814
Stove. Heating.....	G. D. Dana.....	17,145	Mar. 1	38	901
Stove. Heating.....	R. Galbraith.....	17,909	Nov. 29	41	938
Stove. Heating.....	O. Germer.....	17,740	Sept. 27	40	1344
Stove. Heating.....	L. Kahn.....	17,082	Feb. 1	38	421
Stove. Heating.....	L. Kahn and R. Thiem.....	17,718	Sept. 13	40	1140
Stove. Heating.....	F. A. Magee and A. Garbutt.....	{ 17,802 } 17,803	Oct. 18	41	238
Stove. Heating.....	J. F. Martens.....	17,759	Oct. 4	41	2
Stove. Heating.....	J. A. Price.....	17,720	Sept. 13	40	1140
Stove. Heating.....	J. Reiffenstein.....	17,830	Oct. 25	41	358
Stove. Heating.....	J. E. Reiffenstine.....	17,693	Sept. 6	40	1034
Stove. Heating.....	I. B. Resor.....	17,354	May 24	39	835
Stove. Heating.....	F. A. Seifert.....	17,575	Aug. 2	40	450
Stove. Heating.....	H. Smith.....	{ 17,577 } to 17,579	Aug. 2	40	450
Stove. Heating.....	J. G. Smith.....	17,884	Nov. 15	41	700
Stove. Heating.....	W. H. Wilkinson.....	17,978	Dec. 20	41	1275
Stove. Magazine coal.....	D. G. Littlefield.....	17,669	Aug. 30	40	922
Stove. Oil.....	G. W. Swett.....	17,391	June 14	39	1206
Stove or range.....	J. Reiffenstein.....	{ 17,120 } 17,121	Feb. 15	38	664
Stove or range. Cooking.....	G. E. Wilbur.....	17,071	Jan. 18	38	234
Stove. Parlor.....	F. Goebel.....	17,212	Mar. 29	38	1369
Stove. Parlor.....	G. G. Wolfe.....	17,219	Mar. 29	38	1369
Stove. Parlor.....	G. G. Wolfe.....	17,236	Apr. 5	39	2
Stove-pipe flues, &c. Plate for.....	J. I. Flanagan.....	17,457	July 19	40	250
Stove-pipe flues. Plate for.....	Z. T. Hall.....	17,458	July 19	40	250
Stove-rail.....	J. A. Price.....	17,101	Feb. 8	38	546
Stove-top ornament.....	G. G. Wolfe.....	17,208	Mar. 22	38	1252
Stoves. Ornamentation of cooking.....	J. F. Martens.....	17,459	July 19	40	250
Suspender-end.....	W. F. Osborne.....	17,269	Apr. 19	39	248
Suspender-end.....	W. F. Osborne.....	17,362	May 31	39	964
Suspender-strap.....	W. F. Osborne.....	17,347	May 17	39	711
Suspenders.....	H. C. Whitmarsh.....	17,085	Feb. 1	38	421
Table. Center.....	W. Niemann.....	17,613	Aug. 9	40	580
Table-ware.....	J. E. Miller.....	17,186	Mar. 15	38	1134
Table-ware.....	J. Proeger.....	17,675	Aug. 30	40	922
Target. Flying.....	W. H. Cruttenden and M. E. Card.....	17,419	June 28	39	1430
Target. Flying.....	A. H. Hebbard.....	17,089	Feb. 8	38	545
Tea-kettle stand.....	W. T. Mersereau.....	17,935	Dec. 6	41	1046
Ticking or similar fabric.....	H. S. Kneedler.....	17,428	July 5	40	2
Ticking or similar fabric.....	H. S. Kneedler.....	{ 17,573 } 17,574	Aug. 2	40	450
Ticking or similar fabrics.....	H. S. Kneedler.....	17,626	Aug. 9	40	580
Ticking or similar woven fabric.....	H. S. Kneedler.....	17,393	June 14	39	1206
Ticking or similar woven fabric.....	H. S. Kneedler.....	17,424	June 28	39	1430
Tile or center-piece.....	A. Osborne.....	17,385	June 7	39	1088
Tiling.....	A. T. Mart.....	17,387	June 14	39	1206
Time-piece characters. Series of.....	E. L. Hull.....	17,357	May 24	39	836
Tin can.....	R. C. Anderson.....	17,143	Mar. 1	38	901
Tooth-pick holder, &c.....	H. Franz.....	17,345	May 17	39	711
Toy.....	C. D. Goodwin.....	17,200	Mar. 22	38	1251
Toy pistol.....	P. Adams.....	17,397	June 21	39	1330
Toy savings-bank.....	C. G. Shepard and P. Adams.....	17,103	Feb. 8	38	546
Trimming.....	J. Dreyfuss.....	17,762	Oct. 11	41	128
Trimming.....	B. Lipper.....	17,649	Aug. 23	40	814
Trimming.....	H. Rosenthal.....	17,189	Mar. 15	38	1134
Trimming.....	S. Steinecke.....	17,841	Oct. 25	41	358
Trousers. Re-enforce for.....	C. Erlanger.....	17,794	Oct. 18	41	238
Type.....	H. Brehmer.....	17,479	July 26	40	350
Type.....	W. F. Capitain.....	17,727	Sept. 20	40	1246
Type.....	J. M. Conner.....	17,128	Feb. 22	38	786
Type.....	W. W. Jackson.....	17,130	Feb. 22	38	786
Type.....	W. W. Jackson.....	17,797	Oct. 18	41	238
Type. Font of.....	A. M. Barnhart.....	17,162	Mar. 8	38	1019
Type. Font of printing.....	W. Barnhart.....	17,665	Aug. 30	40	922
Type. Font of printing.....	W. Barnhart.....	17,701	Sept. 13	40	1140
Type. Font of printing.....	C. H. Beeler, Jr.....	17,125	Feb. 22	38	786
Type. Font of printing.....	W. F. Capitain.....	17,629	Aug. 16	40	698
Type. Font of printing.....	G. F. Giesecke.....	17,067	Jan. 18	38	234
Type. Font of printing.....	G. F. Giesecke.....	17,607	Aug. 9	40	580
Type. Font of printing.....	C. E. Heyer.....	17,668	Aug. 30	40	922
Type. Font of printing.....	C. E. Heyer.....	17,894	Nov. 22	41	820
Type. Font of printing.....	H. Ihlenburg.....	17,346	May 17	39	711
Type. Font of printing.....	H. Ihlenburg.....	17,361	May 31	39	964
Type. Font of printing.....	W. W. Jackson.....	17,342	May 10	39	592
Type. Font of printing.....	E. Lauschke.....	{ 17,698 } 17,699	Sept. 6	40	1034
Type. Font of printing.....	E. Lauschke.....	17,758	Oct. 4	41	2
Type. Font of printing.....	E. Lauschke.....	{ 17,800 } 17,801	Oct. 18	41	238
Type. Font of printing.....	A. Little.....	17,632	Aug. 16	40	698
Type. Font of printing.....	C. Schraubstadter, Jr.....	17,350	May 17	39	711
Type. Font of printing.....	J. West.....	17,353	May 17	39	711
Type. Font of printing script.....	C. E. Heyer.....	17,091	Feb. 8	38	546
Type ornaments. Font of.....	G. F. Giesecke.....	17,910	Nov. 29	41	938
Type ornaments. Font of.....	H. Ihlenburg.....	17,341	May 10	39	592
Type ornaments. Font of combination.....	G. F. Giesecke.....	17,572	Aug. 2	40	450

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Design.	Name.	No.	Date.	Official Gazette.	
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Type ornaments. Font of combination.....	J. West.....	17,359	May 24	39	836
Type ornaments or combination border. Font of.....	G. F. Giesecke.....	17,403	June 21	39	1330
Type. Printing.....	H. Brehmer.....	17,165	Mar. 8	38	1019
Type. Printing.....	E. C. Ruthven.....	17,176	Mar. 8	38	1019
Upholstery fabric.....	D. B. Kerr.....	17,799	Oct. 18	41	238
Valves. Hand-wheel for steam.....	R. T. Crane.....	17,868	Nov. 8	41	581
Vapor-burner cap.....	C. A. Stockstrom.....	17,752	Sept. 27	40	1344
Vase.....	M. W. Carr.....	{ 17,627 } 17,628	Aug. 16	40	698
Vase.....	C. M. Egbert.....	17,198	Mar. 22	38	1251
Vessel or dish. Table.....	J. Webb.....	17,664	Aug. 23	40	814
Violin.....	D. K. Darbyshire.....	17,888	Nov. 22	41	820
Violin chin-rest.....	W. V. Arthur.....	17,111	Feb. 15	38	663
Wagon-bodies. Corner-post for.....	C. Contant.....	17,697	Sept. 6	40	1034
Wagon-body.....	I. P. Walden.....	17,276	Apr. 19	39	248
Waist. Lady's evening.....	H. F. Duke.....	17,956	Dec. 20	41	1275
Wall-paper.....	W. N. Peak.....	17,076	Jan. 25	38	334
Wall-paper.....	R. H. Pratt.....	{ 17,671 } to 17,674	Aug. 30	40	922
Wall-paper.....	C. H. Provost.....	17,476	July 19	40	250
Wall-paper.....	C. Wheeler.....	17,755	Sept. 27	40	1344
Wall-stand.....	A. Nacke.....	17,064	Jan. 11	38	110
Walls. Surface ornamentation of.....	F. Mankey.....	17,133	Feb. 22	38	786
Wash-stand.....	F. J. Torrance.....	17,950	Dec. 13	41	1168
Watch-case.....	W. Hayes.....	17,680	Sept. 6	40	1034
Watch-case.....	D. E. D. McMurray.....	17,280	Apr. 26	39	366
Watch-case.....	F. Rapp.....	17,109	Feb. 8	38	546
Watch-case.....	F. Rapp.....	17,284	Apr. 26	39	366
Watch-case.....	F. Rapp.....	{ 17,348 } 17,349	May 17	39	711
Watch-case.....	F. Rapp.....	17,616	Aug. 9	40	580
Watch-case.....	P. Stucker.....	17,104	Feb. 8	38	546
Watch-case.....	E. V. Wendell.....	17,433	July 5	40	2
Water-closet basin.....	T. W. Twyford.....	17,432	July 5	40	2
Water-closet bowl.....	W. C. Peet.....	17,159	Mar. 1	38	902
Water-gage column.....	G. W. Drew.....	17,940	Dec. 13	41	1168
Wheel.....	S. L. Allen.....	17,412	June 28	39	1430
Wrap. Lady's.....	E. Roys.....	17,694	Sept. 6	40	1034

ALPHABETICAL LIST OF TRADE-MARKS.

Title.	Name.	No.	Date.	Official Gazette.	
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Accordions.....	M. Hohner.....	14,317	Apr. 26	39	366
Accordions.....	C. F. Pietschmann & Söhne.....	14,811	Oct. 11	41	128
Accordions.....	J. F. Stratton.....	15,069	Dec. 27	41	1394
Acid phosphate.....	T. Aspden.....	14,483	June 7	39	1088
Aerated beverages.....	Chesterman & Barrow.....	14,505	June 14	39	1206
Aerated waters.....	C. H. Phelps.....	14,534	June 21	39	1330
Agalmatolite and other clay-producing rock and ground crude clay. Comminuted.....	M. T. Warne.....	14,502	June 7	39	1088
Agricultural implements.....	S. L. Allen & Co.....	14,860	Nov. 1	41	470
Album. Photograph.....	A. J. Holman & Co.....	14,701	Aug. 23	40	814
Ale.....	Greenway Brewing Company.....	14,521	June 14	39	1206
Ale. Light present-us.....	Greenway Brewing Company.....	14,520	June 14	39	1206
Ale, stout, and porter.....	T. McMullen & Co.....	13,956	Jan. 4	38	2
Alloy for reducing friction. Metal.....	Illinois Alloy Company.....	14,222	Mar. 29	38	1370
Alloys and articles made therefrom. Metallic.....	Phosphor Bronze Smelting Company.....	15,068	Dec. 27	41	1394
Aperient water. Natural.....	A. Saxlehner.....	14,251	Apr. 5	39	2
Aperient water. Natural.....	A. Saxlehner.....	14,252	Apr. 5	39	2
Axes. Chopping.....	N., J. P., and A. C. Romer.....	14,132	Mar. 8	38	1020
Axes, hatchets, and other chopping-tools.....	McLean Bros. & Rigg.....	14,320	Apr. 26	39	366
Bags of burlap with a paper lining.....	G. H. Magee.....	14,464	May 31	39	964
Baking-powder.....	Corbin, May & Co.....	14,488	June 7	39	1088
Baking-powder.....	J. P. Dieter.....	14,331	Apr. 26	39	366
Baking-powder.....	O. F. Durney.....	14,072	Feb. 15	38	664
Baking-powder. Powdered acid phosphate of lime for.....	Provident Chemical Works.....	14,032	Feb. 1	38	422
Baking-powder. Powdered acid phosphate of lime for.....	Provident Chemical Works.....	14,033	Feb. 1	38	422
Baking-powder. Powdered acid phosphate of lime for.....	Provident Chemical Works.....	14,034	Feb. 1	38	422
Bale-ties, bundled wire, coiled wire, barb-wire, wire-fence staples, wire nails, and perforated ornamental fencing.....	Kilmer Manufacturing Company.....	14,666	Aug. 9	40	580
Balsam, balm, pills, and a powder for domestic animals and fowls.....	H. H. Haines.....	14,438	May 24	39	836
Barley. Prepared.....	Keen, Robinson & Bellville.....	14,837	Oct. 18	41	238
Barrels and their component parts. Flour.....	Co-operative Barrel Manufacturing Company.....	14,779	Sept. 27	40	1344
Bars, tools, and rails. Merchant.....	Solid Ingot Company.....	14,942	Nov. 15	41	700
Bath-tub and basin wastes.....	Meyer, Sniffen Company.....	14,647	July 26	40	350
Bath-tubs.....	Meyer, Sniffen Company.....	14,644	July 26	40	350
Bath-tubs, basins, and water-closets.....	Meyer, Sniffen Company.....	14,646	July 26	40	350
Beans.....	A. B. Cleveland Company.....	14,069	Feb. 15	38	664
Beef-drippings for cooking purposes.....	W. Schollenberger.....	14,105	Feb. 22	38	786
Beer. Lager.....	Germania Brewing Company.....	15,063	Dec. 27	41	1394
Beer. Lager.....	F. Neumer.....	14,109	Mar. 1	38	902
Beer. Milwaukee.....	P. M. Ohmeis.....	14,561	June 28	39	1430
Beer. Unfermented carbonated.....	D. S. Dyson.....	14,635	July 26	40	350
Bells for churches, engine-houses or other fire-alarms, schools, or other places or purposes.....	J. B. Dodds.....	14,380	May 17	39	712
Belting. Rubber.....	Newark Machine Company.....	14,820	Oct. 11	41	128
Belting. Rubber.....	Revere Rubber Company.....	15,042	Dec. 20	41	1276
Belts and pulleys. Adhesive dressings for.....	Sewall Safety Car Heating Company.....	14,918	Nov. 8	41	582
Beverage made from apples. Aerated.....	J. W. Tufts.....	14,324	Apr. 26	39	366
Beverages. Carbonated bottled.....	Badger State Bottling Co.....	13,960	Jan. 11	38	110
Bibs, cocks, and faucets.....	Meyer, Sniffen Company.....	14,643	July 26	40	350
Biscuits and cakes.....	Huntley & Palmers.....	14,636	July 26	40	350
Biscuits, crackers, and wafers.....	Holmes & Coutts.....	14,907	Nov. 8	41	582
Bitters.....	Dr. Harter Medicine Company.....	14,594	July 12	40	122
Bitters.....	H. Kantorowicz.....	14,665	Aug. 9	40	580
Bitters.....	A. E. Lake.....	14,285	Apr. 12	39	124
Bitters.....	Lion Manufacturing Company.....	14,880	Nov. 1	41	470
Bitters.....	Picon & Co.....	13,993	Jan. 18	38	234
Bitters.....	L. Prange.....	14,887	Nov. 1	41	470
Bitters.....	L. Prange.....	14,888	Nov. 1	41	470
Bitters.....	J. Smith & Son.....	14,789	Sept. 27	40	1344
Bitters. Stomach.....	H. P. Van Dijk.....	14,041	Feb. 1	38	422
Blacking for boots and shoes. Paste.....	M. A. Leroy.....	14,879	Nov. 1	41	470
Blacking for leather.....	R. George.....	14,682	Aug. 16	40	698
Blacking. Liquid, paste, and water-proof.....	Day & Martin.....	14,544	June 21	39	1330
Blacking. Shoe.....	G. A. Moss.....	14,796	Oct. 4	41	2
Blacking. Shoe.....	Société Générale des Cirages Français.....	13,996	Jan. 18	38	234
Blankets, lap-ropes, and similar woolen articles.....	J. McCreery & Co.....	14,829	Oct. 18	41	238
Blankets, lap-ropes, and similar woolen articles.....	J. McCreery & Co.....	14,830	Oct. 18	41	238
Bleaching-powder, chloride of lime, sulphate of soda, caustic soda, and potash.....	W. Pilkington & Son.....	14,413	May 17	39	712
Blood-purifier and general invigorant.....	Seminole Blood Purifier Company.....	14,446	May 24	39	836
Bluing.....	J. W. Hack.....	13,969	Jan. 11	38	110
Bluing. Laundry.....	B. J. Musser.....	14,129	Mar. 8	38	1020
Boilers for heating purposes. Steam.....	W. B. Dunning.....	14,769	Sept. 20	40	1246
Bolts and rivets.....	Welsh & Lea.....	15,031	Dec. 13	41	1168
Book-bindings.....	W. G. Stoneham & Company.....	14,245	Apr. 5	39	2
Books. Coupon.....	H. W. Taylor.....	14,990	Nov. 29	41	938
Boots and shoes.....	L. Meyer.....	14,168	Mar. 15	38	1134
Boots and shoes.....	A. Schenck.....	14,802	Oct. 4	41	2
Boots and shoes. Lasts for.....	J. McComber.....	14,774	Sept. 20	40	1246

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Boots, shoes, and slippers.....	H. B. Parker	14,961	Nov. 22	41	820
Boots, shoes, and slippers of all kinds.....	A. J. Cammeyer	14,952	Nov. 22	41	820
Borax. Chemically-pure.....	J. P. Smith	14,624	July 19	40	260
Box-bands. Corrugated steel.....	J. K. Barton	14,163	Mar. 15	38	1134
Braces and suspenders.....	A. Roussel and P. Bailly.....	14,718	Aug. 30	40	922
Braces and suspenders.....	Suffolk Manufacturing Company.....	14,919	Nov. 8	41	582
Braid. Button.....	N. C. Newell.....	14,938	Nov. 15	41	700
Braids for trimming.....	Davis, Marean & Co.....	14,461	May 31	39	964
Bread and breakfast cakes. Self-raising mixture for Boston brown.....	H. E. Pearson.....	15,025	Dec. 13	41	1168
Brooms and whisks.....	W. T. Waters & Co.....	14,673	Aug. 9	40	580
Brushes.....	C. W. Mulford	14,376	May 10	39	592
Brushes. Painters'.....	Rennous, Kleinle & Co.....	14,009	Jan. 25	38	334
Brushes. Toilet.....	F. V. Newman and R. A. Kinkele.....	14,738	Sept. 6	40	1034
Brushes. Tooth.....	Tarrant & Company	14,943	Nov. 15	41	700
Butter.....	Fox River Butter Company.....	14,771	Sept. 20	40	1246
Butter.....	J. H. Gray	14,508	June 14	39	1206
Butter, cheese, and lard.....	D. Nicholson.....	14,192	Mar. 22	38	1252
Calico.....	Dunnell Manufacturing Company.....	14,436	May 24	39	836
Calico goods.....	American Printing Company.....	14,199	Mar. 29	38	1370
Cambric frillings and embroideries.....	J. & J. Cash	14,328	Apr. 26	39	366
Cambric frillings and embroideries.....	J. & J. Cash	14,329	Apr. 26	39	366
Cambrics, silesias, and hosiery.....	Sterling Dyeing and Finishing Company.....	14,660	Aug. 2	40	450
Candies.....	Hawley & Hoops	14,956	Nov. 22	41	820
Candles. Wax.....	F. Baumer	14,592	July 12	40	122
Candy.....	R. and T. Candy	14,533	June 21	39	1330
Cane and sorgo mills.....	L. M. Rumsey Manufacturing Company.....	14,417	May 17	39	712
Canned fish.....	Bristol Bay Canning Company.....	14,601	July 19	40	250
Canned fish.....	Bristol Bay Canning Company.....	14,602	July 19	40	250
Canned fish.....	Buchheit Packing Co.....	14,777	Sept. 27	40	1344
Canned fish.....	W. T. Coleman & Co.....	14,432	May 24	39	836
Canned fish.....	Eureka Packing Co.....	14,177	Mar. 22	38	1252
Canned fruit, berries, and vegetables.....	W. T. Coleman & Co.....	14,632	July 26	40	350
Canned fruit, vegetables, turkey, and chicken.....	E. A. Edgett.....	14,870	Nov. 1	41	470
Canned fruits and vegetables.....	Cornly & Flanigen.....	14,201	Mar. 29	38	1370
Canned sugar-corn.....	J. S. McFerren, A. H. Trego, and A. T. Catherwood.....	14,128	Mar. 8	38	1020
Canned tomatoes, corn, peas, peaches, and other vegetables and fruits.....	C. R. Merriam	14,280	Apr. 12	39	124
Canned tomatoes, peaches, and corn.....	Wilkinson, Gaddis & Co.....	14,893	Nov. 1	41	470
Canned vegetables, fruits, meats, and fish.....	D. Nicholson.....	14,188	Mar. 22	38	1252
Caramels.....	H. H. Ives & Co.....	14,675	Aug. 9	40	580
Carpet-beaters.....	S. Simmons and J. Tullidge.....	15,044	Dec. 20	41	1276
Carpeting, ingrain, and matting. Hemp.....	J. S. Lamond and C. T. Robertson.....	14,760	Sept. 13	40	1140
Cars. Stock.....	G. D. Burton.....	14,726	Sept. 6	40	1034
Cars. Stock.....	G. D. Burton.....	14,925	Nov. 15	41	700
Cartridge-shells.....	United States Cartridge Company.....	14,160	Mar. 8	38	1020
Cartridges and bullets.....	Union Metallic Cartridge Company.....	14,134	Mar. 8	38	1020
Catalogues.....	Butler Brothers.....	14,790	Oct. 4	41	2
Catarrh. Compound for the cure of.....	G. Kneuper	14,585	July 12	40	122
Catheters.....	Sardy, Coles & Co.....	14,133	Mar. 8	38	1020
Catsup. Tomato.....	Meyer-Bain Manufacturing Company.....	14,936	Nov. 15	41	700
Cement.....	I. C. Johnson & Co.....	14,655	Aug. 2	40	450
Cement. Hydraulic.....	H. Snyder.....	14,195	Mar. 22	38	1252
Cement. Portland.....	G. Bossange	14,197	Mar. 22	38	1252
Cement. Portland.....	Hannoversche Portland Cementfabrik Actiengesellschaft.....	14,198	Mar. 22	38	1252
Cereal foods, crackers, biscuits, and the like.....	R. Walter.....	14,627	July 19	40	250
Chains. Watch.....	A. Kohn & Co.....	14,298	Apr. 19	39	248
Chairs. Folding reclining rocking.....	P. C. Lewis	14,737	Sept. 6	40	1034
Champagne.....	H. M. Black	14,752	Sept. 13	40	1140
Chemical substances for agricultural and horticultural purposes, dog and sheep washes, and preparations for destroying parasites, disinfectants, and antiseptics.....	J. Ascough	14,746	Sept. 13	40	1140
Chocolate cream-drops.....	W. M. Lowney.....	14,108	Mar. 15	38	902
Cholera and pain cure.....	J. R. McIntosh	14,471	May 31	39	964
Cider.....	Beach & Clarridge.....	14,949	Nov. 22	41	820
Cider.....	A. Werner.....	14,271	Apr. 12	39	124
Cider.....	A. Werner.....	14,272	Apr. 12	39	124
Cigar-boxes.....	J. W. Strieder.....	14,010	Jan. 25	38	334
Cigarette-paper.....	H. Isaac	14,365	May 10	39	592
Cigarettes.....	Silverberg & Co.....	13,995	Jan. 18	38	234
Cigars.....	R. Allones	14,137	Mar. 8	38	1020
Cigars.....	F. K. Bowers	14,288	Apr. 19	39	248
Cigars.....	F. K. Bowers	14,289	Apr. 19	39	248
Cigars.....	F. K. Bowers	14,290	Apr. 19	39	248
Cigars.....	F. K. Bowers	14,291	Apr. 19	39	248
Cigars.....	F. K. Bowers	14,292	Apr. 19	39	248
Cigars.....	J. N. Gregory.....	14,691	Aug. 23	40	814
Cigars.....	Hansman & Hoffman.....	14,783	Sept. 27	40	1344
Cigars.....	Martinez & Co.....	14,986	Nov. 29	41	938
Cigars.....	M. Marx	14,559	June 28	39	1430
Cigars.....	M. Marx	14,560	June 28	39	1430
Cigars.....	Rokohl Bros.....	13,949	Jan. 4	38	2
Cigars.....	Schnbmehl, Pratt & Co.....	14,765	Sept. 13	40	1140
Cigars.....	S. S. Sleeper & Co.....	15,057	Dec. 20	41	1276
Cigars.....	Sternemann Bros.....	14,447	May 24	39	836
Cigars.....	V. S. Wright.....	14,543	June 21	39	1330
Cigars and cigarettes.....	B. Baron	14,600	July 19	40	250
Cigars and cigarettes.....	H. R. Kelly & Co.....	14,832	Oct. 18	41	238
Cigars and cigarettes.....	W. McGraw	14,028	Feb. 1	38	422

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Cigars and cigarettes.....	Reynolds, Rogers & Co	14,541	June 21	39	1330
Cigars and manufactured tobacco in all its forms, and snuff..	T. Drysdale & Co	14,979	Nov. 29	41	938
Cigars and tobacco	D. Nicholson	14,189	Mar. 22	38	1252
Cigars, cigarettes, and tobacco	B. Baron	14,973	Nov. 29	41	938
Cigars, cigarettes, chewing and smoking tobacco, and snuff..	Pemberton & Hill Tobacco Manu- facturing Company.	14,008	Jan. 25	38	334
Cigars, cigarettes, chewing and smoking tobacco, and snuff..	Pemberton & Hill Tobacco Manu- facturing Company.	14,912	Nov. 8	41	582
Cigars, cigarettes, chewing and smoking tobacco, and snuff..	Pemberton & Hill Tobacco Manu- facturing Company.	14,913	Nov. 8	41	582
Cigars, cigarettes, chewing and smoking tobacco, and snuff..	Pemberton & Hill Tobacco Manu- facturing Company.	14,914	Nov. 8	41	582
Cigars, cigarettes, chewing and smoking tobacco, and snuff..	Pemberton & Hill Tobacco Manu- facturing Company.	14,915	Nov. 8	41	582
Cigars, cigarettes, chewing and smoking tobacco, and snuff..	Pemberton & Hill Tobacco Manu- facturing Company.	15,001	Dec. 6	41	1046
Cleaning and polishing preparation	M. D. Fernanço	14,982	Nov. 29	41	938
Clothes-pins. Wooden	Dodge, Meigs & Co	15,034	Dec. 20	41	1276
Clothes-wringers	Empire Wringer Company	14,351	May 3	39	472
Clothing and gentlemen's furnishing goods	J. W. Ballantine	14,553	June 28	39	1430
Clothing for men, boys, and children. Outside	Knights of Labor Co-Operative Man- ufacturing Tailoring Company.	14,667	Aug. 9	40	580
Clothing for youths, boys, and children	Klein, Goodhart & Koch	14,439	May 24	39	836
Clothing. Men's, boys', and children's	Spitz Bros. & Mork	14,669	Aug. 9	40	580
Clothing. Oil or water-proof	J. F. Carter	14,926	Nov. 15	41	700
Coal and wood	T. M. Hackett & Co	14,536	June 21	39	1330
Coats, pantaloons, vests, jackets, overcoats, overalls, and over- shirts for men and boys.	Our Girls' Co-operative Clothing Manufacturing Company.	14,620	July 19	40	250
Cocoa and chocolate	C. J. Van Houten & Zoon	14,216	Mar. 29	38	1370
Cocoa and chocolate	C. J. Van Houten & Zoon	14,217	Mar. 29	38	1370
Cocoa and chocolate	C. J. Van Houten & Zoon	14,218	Mar. 29	38	1370
Cod-liver oil	Isdahl & Co	14,538	June 21	39	1330
Cod-liver oil	J. Jensen & Company	14,263	Apr. 12	39	124
Coffee	Chase & Sanborn	14,652	Aug. 2	40	450
Coffee and milk, chocolate and milk, cocoa and milk, and pre- pared dandelion. Prepared beverages of	T. Symington	15,029	Dec. 13	41	1168
Coffee. Java	Lièvre, Fricke & Co	13,989	Jan. 18	38	234
Coffee, of coffee and chicory, and of dandelion coffee. Es- sence of	T. Symington	15,028	Dec. 13	41	1168
Coffee. Roasted	J. C. Schreyer	14,360	May 3	39	472
Coffee, tea, and spices	D. Nicholson	14,190	Mar. 22	38	1252
Coffees, spices, baking-powder, and flavoring extracts	C. R. Groff	14,850	Oct. 25	41	358
Colic and spavin cure, worm, cough, and condition powders, cough-tea, plasters, and pills.	Wm. Gausewitz & Co	15,008	Dec. 6	41	1046
Collars and cuffs	United Manufacturing Company	14,135	Mar. 8	38	1020
Collars and cuffs. Celluloid	Arlington Collar and Cuff Company	14,012	Feb. 1	38	421
Collars, cuffs, and shirts	W. G. Jughardt	14,406	May 17	39	712
Collars, cuffs, and shirts	J. K. P. Pine	14,215	Mar. 29	38	1370
Collars. Horse	P. Hayden Saddlery Hardware Com- pany.	14,465	May 31	39	964
Colors for paper and paper-hangings and for other purposes. Preparation for use in the manufacture of	Norddeutsche Kartoffelmehl Fabrik	14,473	May 31	39	964
Compound for the cure of liver and kidney complaints	C. R. Crow	14,727	Sept. 6	40	1034
Compound with alterative and tonic properties. Liquid veg- etable	Taylor Tonic Co	14,968	Nov. 22	41	820
Compounds for the cure of asthma and other specific diseases.	O. G. Hottinger	14,231	Apr. 5	39	2
Confectionery	P. Wunderle	14,845	Oct. 18	41	238
Confectionery	P. Wunderle	14,846	Oct. 18	41	238
Copies. Apparatus for producing transferred	O. Lelm	14,067	Feb. 8	38	546
Copper ingots	Lewisohn Brothers	13,976	Jan. 11	38	110
Cork-wood	Gudewill & Bucknall	14,835	Oct. 18	41	238
Cork-wood	Gudewill & Bucknall	14,836	Oct. 18	41	238
Cork-wood	Gudewill & Bucknall	14,851	Oct. 25	41	358
Cork-wood	Gudewill & Bucknall	14,852	Oct. 25	41	358
Cork-wood	Gudewill & Bucknall	14,932	Nov. 15	41	700
Cork-wood	Gudewill & Bucknall	14,933	Nov. 15	41	700
Corn in the form of flakes. Product of Indian	Gaff, Gent & Thomas	14,018	Feb. 1	38	422
Corn. Indian	D. I. Bushnell & Co	13,998	Jan. 25	38	334
Corn-starch	Sleeper Starch Company	14,743	Sept. 6	40	1034
Corsets	J. Beckel & Co	14,895	Nov. 8	41	582
Corsets	F. S. Dunham & Co	14,817	Oct. 11	41	128
Corsets	C. A. Griswold	14,273	Apr. 12	39	124
Corsets	C. A. Griswold	14,274	Apr. 12	39	124
Corsets	C. A. Griswold	14,275	Apr. 12	39	124
Corsets	C. A. Griswold	14,276	Apr. 12	39	124
Corsets	C. A. Griswold	14,277	Apr. 12	39	124
Corsets	I. and S. H. Rosenberg	14,171	Mar. 15	38	1134
Corsets	W. Rosenthal & Co	14,940	Nov. 15	41	700
Corsets and corset-clasps	E. Schweinburg	14,705	Aug. 23	40	814
Cosmetic	K. R. Hennessey	14,758	Sept. 13	40	1140
Cosmetics	C. H. Beers	14,085	Feb. 22	38	786
Cosmetics	A. Hazlett	14,141	Mar. 8	38	1020
Cotton and woolen fabrics	China and Japan Trading Company	14,296	Apr. 19	39	248
Cotton and woolen fabrics and yarns	National Manufacturing Company	14,761	Sept. 13	40	1140
Cotton and woolen fabrics. Woven	China and Japan Trading Company	15,050	Dec. 20	41	1276
Cotton and woolen goods	China and Japan Trading Company	14,200	Mar. 29	38	1370
Cotton and woolen woven fabrics	China and Japan Trading Company	14,707	Aug. 30	40	922
Cotton. Bales of	H. C. Ludlow	14,094	Feb. 22	38	786
Cotton cloth	Arnold Print Works	14,425	May 24	39	836
Cotton fabrics, such as sheetings, shirtings, and duck	Coombs, Crosby & Eddy	14,434	May 24	39	836
Cotton-gins	Eagle Cotton Gin Company	15,035	Dec. 20	41	1276
Cotton goods. Bleached and unbleached woven	Massachusetts Cotton Mills	13,946	Jan. 4	38	2
Cotton goods. Plaid	L. Waitzfelder	14,803	Oct. 4	41	2
Cotton linings	Hyde & Burton	14,205	Mar. 29	38	1370

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Cotton-seed	L. P. Sawtell	14,693	Aug. 23	40	814
Cotton. Six-cord spool	Willimantic Linen Company	15,004	Dec. 6	41	1046
Cotton threads and yarns of all kinds	Zwirneri & Naehfadenfabrick Goeggingen.	14,325	Apr. 26	39	366
Cotton threads and yarns of all kinds	Zwirneri & Naehfadenfabrick Goeggingen.	14,369	May 10	39	592
Cotton threads and yarns of all sorts	Zwirneri & Naehfadenfabrick Goeggingen.	14,368	May 10	39	592
Cotton threads and yarns of all sorts	Zwirneri & Naehfadenfabrick Goeggingen.	14,370	May 10	39	592
Cough-cure	H. M. Boardman	15,049	Dec. 20	41	1276
Cough-drops	C. Wright	14,599	July 12	40	122
Cough medicine	M. J. Breitenbach	14,531	June 21	39	1330
Cough-mixtures	S. I. Johnston	14,910	Nov. 8	41	582
Cough-sirup	L. Conzelman	14,827	Oct. 18	41	238
Cough-sirup, perforated plasters, ointment, and veterinary preparations.	H. E. Holmes	14,230	Apr. 5	39	2
Cough-sirups	C. Wright	14,629	July 19	40	250
Crackers	C. H. Paul	14,182	Mar. 22	38	1252
Crackers, biscuits, and kindred articles	C. D. Boss & Son	14,049	Feb. 8	38	546
Crackers, biscuits, wafers, cakes, and kindred articles	F. A. Kennedy Company	14,759	Sept. 13	40	1140
Crackers, fancy biscuits, cakes, and jumbles	Manewal-Lange Cracker Company	14,266	Apr. 12	39	124
Crackers, fancy biscuits, cakes, and jumbles	Manewal-Lange Cracker Company	14,267	Apr. 12	39	124
Crackers. Soda	Dozier-Weyl Cracker Company	14,053	Feb. 8	38	546
Cream for the complexion. Liquid	H. Tappan	14,196	Mar. 22	38	1252
Cuffs and collars	J. K. P. Pine	14,286	Apr. 12	39	124
Cure for piles	J. E. Hooper	15,065	Dec. 27	41	1394
Curtains. Nottingham lace	T. I. Birkin	14,148	Mar. 8	38	1020
Cutlery	A. Field & Co.	14,730	Sept. 6	40	1034
Cutlery	A. J. Jordan	14,026	Feb. 1	38	422
Cutlery	Pauls Bros	14,939	Nov. 15	41	700
Cutlery and edge-tools	W. Bingham & Co.	14,530	June 21	39	1330
Cutlery and edge-tools. Table, pocket, and other	H. Boker & Co.	14,428	May 24	39	836
Cutlery and scissors	H. Boker & Co.	14,073	Feb. 15	38	664
Cutlery, edge-tools generally, and saws and files	W. T. Staniforth	14,419	May 17	39	712
Cutlery of all kinds	Wiebusch & Hilger	14,662	Aug. 2	40	450
Denims and other suitings	Schlaepfer, Ferber & Co.	14,359	May 3	39	472
Dentifrice	E. W. Hoyt & Co.	14,372	May 10	39	592
Dentifrices	M. S. Nichols	14,884	Nov. 1	41	470
Deodorizers	L. S. Overton	14,739	Sept. 6	40	1034
Dermal emollient	A. G. Wilbor & Co.	14,174	Mar. 15	38	1134
Desks, seats, and similar articles of school, office, and business furniture.	F. W. Dickerman	14,462	May 31	39	964
Diapers	Canfield Rubber Company	14,015	Feb. 1	38	422
Disinfectant. Balls of medicated	Harford & Reeves	14,307	Apr. 19	39	248
Draftsmen's and engineers' supplies	E. G. Soltmann	14,775	Sept. 20	40	1246
Draftsmen's and engineers' supplies and instruments	E. G. Soltmann	14,501	June 7	39	1088
Drawing materials and instruments. Certain named	E. G. Soltmann	14,625	July 19	40	250
Drawing materials and instruments. Certain named	E. G. Soltmann	14,967	Nov. 22	41	820
Dress goods	F. Loeser & Co.	14,207	Mar. 29	38	1370
Dress goods composed of silk and wool, wool, and wool and cotton materials.	B. Priestley & Co.	14,238	Apr. 5	39	2
Drugs and chemicals. Certain named	Stamford Manufacturing Company	14,688	Aug. 16	40	698
Duck	Schlaepfer, Ferber & Co.	14,418	May 17	39	712
Dye-stuffs and colors and other chemicals	Fabriques de Produits Chimiques de Thann et de Mulhous.	14,757	Sept. 13	40	1140
Dyed fabrics. Black	C. Coget and H. Lacour	14,580	July 12	40	122
Dyeing. Liquid preparation used in	Young & Walton	14,825	Oct. 11	41	128
Dyes for cotton goods. Black	F. P. Robinson Co.	14,499	June 7	39	1088
Dyes for cotton goods. Black	F. P. Robinson Co.	14,500	June 7	39	1088
Earthenware and china	Doulton & Co.	14,381	May 17	39	712
Electric or galvanic batteries	H. B. Cox	14,017	Feb. 1	38	422
Electromotor necklaces for teething children	Gehrig Gebrüder	14,054	Feb. 8	38	546
Embroideries. Art	A. M. Hart	14,124	Mar. 8	38	1019
Embroidery threads, cords, or braids	C. E. Bentley	14,833	Oct. 18	41	238
Emery-wheels	J. P. Sweney	14,920	Nov. 8	41	582
Eucalyptus for a boiler-scale eradicator. Preparation of	Downie Boiler Incrustation Prevent- ive Company.	14,756	Sept. 13	40	1140
Exhaust or fan wheel	L. J. Wing	14,824	Oct. 11	41	128
Explosives and powders and blasting apparatus of every de- scription. High	Standard Explosives Company	14,159	Mar. 8	38	1020
Extracts and essences for flavoring food	C. W. Logan	13,943	Jan. 4	38	2
Extracts and perfumery and toilet-soaps. Fine	Eastman & Bro	14,770	Sept. 20	40	1246
Eye-salve	Howard Bros	13,955	Jan. 4	38	2
Eye-salves	T. Nairn	13,991	Jan. 18	38	234
Fabrics of all varieties except carpetings. Pile-surfaced.	Crompton Company	14,435	May 24	39	836
Fabrics of all varieties except carpets. Pile-surfaced.	Crompton Company	15,061	Dec. 27	41	1394
Fabrics to be used for outer clothing and for linings	T. Illingworth	14,583	July 12	40	122
Fabrics to be used for outer clothing and for linings	T. Illingworth	14,584	July 12	40	122
Face-powder	C. R. Bailey & Co.	14,327	Apr. 26	39	366
Face-powder	C. L. Diehl	14,052	Feb. 8	38	546
Face-powder	M. C. Walter	14,706	Aug. 23	40	814
Face-powder	H. O. Yergin	14,248	Apr. 5	39	2
Face-powder, soap, and perfumery	H. Tappan	14,246	Apr. 5	39	2
Farm implements and agricultural and other machinery and vehicles.	T. Drysdale & Co.	14,978	Nov. 29	41	938
Fat. Wool	J. D. Riedel	14,648	July 26	40	350
Fatty, oleaginous, or unctuous food substances	N. K. Fairbank & Company	14,808	Oct. 11	41	128
Felting	J. F. Brown	14,429	May 24	39	836
Fertilizer. Bone-phosphate	Lancaster Chemical Company	14,056	Feb. 8	38	546
Fertilizers	W. S. Powell	14,657	Aug. 2	40	450
Fertilizing products. Manufactured	United States Chemical Company	14,110	Mar. 1	38	902
Fever and ague and malaria cure	I. F. Mead	14,346	May 3	39	472
Finger-rings	Sinnoek & Sherrill	14,172	Mar. 15	38	1134

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Fire-arms	A. Simonis, J. Janssen & Dumoulin Frères.	14,477	May 31	39	964
Fish, meats, fruits, and vegetables. Dried and preserved.	Rosenstein Brothers	14,917	Nov. 8	41	582
Fishing-tackle	A. G. Spalding & Bros	14,302	Apr. 19	39	248
Flavoring extracts	M. Michaelis & Son	14,068	Feb. 8	38	546
Floor-covering	Corticine Floor Covering Company ..	14,050	Feb. 8	38	546
Florida water	Lazell, Dalley & Co	15,037	Dec. 20	41	1276
Flour	D. W. Camp	14,791	Oct. 4	41	2
Flour	D. W. Camp	14,866	Nov. 1	41	470
Flour	Eckhart & Swan	14,699	Aug. 23	40	814
Flour	N. Gregg	14,306	Apr. 19	39	248
Flour	C. A. Hammond & Co	13,970	Jan. 11	38	110
Flour	Herrick, Kirk & Co	14,492	June 7	39	1088
Flour	Herrick, Kirk & Co	14,493	June 7	39	1088
Flour	Herrick, Kirk & Co	14,494	June 7	39	1088
Flour	Herrick, Kirk & Co	14,495	June 7	39	1088
Flour	A. Kufeke	14,387	May 17	39	712
Flour	A. Kufeke	14,388	May 17	39	712
Flour	A. Kufeke	14,389	May 17	39	712
Flour	A. Kufeke	14,390	May 17	39	712
Flour	A. Kufeke	14,391	May 17	39	712
Flour	A. Kufeke	14,392	May 17	39	712
Flour	A. Kufeke	14,393	May 17	39	712
Flour	A. Kufeke	14,394	May 17	39	712
Flour	A. Kufeke	14,395	May 17	39	712
Flour	A. Kufeke	14,396	May 17	39	712
Flour	A. Kufeke	14,397	May 17	39	712
Flour	A. Kufeke	14,398	May 17	39	712
Flour	A. Kufeke	14,399	May 17	39	712
Flour	A. Kufeke	14,407	May 17	39	712
Flour	A. Kufeke	14,408	May 17	39	712
Flour	A. Kufeke	14,409	May 17	39	712
Flour	A. Kufeke	14,410	May 17	39	712
Flour	A. Kufeke	14,411	May 17	39	712
Flour	A. Kufeke	14,609	July 19	40	250
Flour	A. Kufeke	14,610	July 19	40	250
Flour	A. Kufeke	14,611	July 19	40	250
Flour	A. Kufeke	14,612	July 19	40	250
Flour	A. Kufeke	14,613	July 19	40	250
Flour	A. Kufeke	14,614	July 19	40	250
Flour	A. Kufeke	14,615	July 19	40	250
Flour	J. W. Matthews & Co	15,039	Dec. 20	41	1276
Flour	W. A. Oliver	14,269	Apr. 12	39	124
Flour	L. C. Porter	14,587	July 12	40	122
Flour and cornmeal. Mixture of dry and uncooked wheat.	W. R. Lieb	15,021	Dec. 13	41	1168
Flour-bags	Bemis Bro. Bag Company	14,849	Oct. 25	41	358
Flour. Fancy patent	Couper Milling Company	14,087	Feb. 22	38	786
Flour. Wheat	J. H. Abbot	15,060	Dec. 27	41	1394
Flour. Wheat	F. M. Arming & Co	14,503	June 14	39	1206
Flour. Wheat	Cargill & Fall	14,778	Sept. 27	40	1344
Flour. Wheat	H. C. Cole & Co	14,063	Feb. 8	38	546
Flour. Wheat	J. B. Ficklen & Sons	14,593	July 12	40	122
Flour. Wheat	J. B. Ficklen & Sons	14,681	Aug. 16	40	698
Flour. Wheat	Galaxy Mill Company	14,019	Feb. 1	38	422
Flour. Wheat	Kauffman Milling Company	14,088	Feb. 22	38	786
Flour. Wheat	Kauffman Milling Company	14,089	Feb. 22	38	786
Flour. Wheat	A. Reiter & Co	14,623	July 19	40	250
Flour. Wheat	J. F. Wilcox and L. H. Hyde	14,183	Mar. 22	38	1252
Flour. Wheat	J. F. Wilcox and L. H. Hyde	14,184	Mar. 22	38	1252
Food for infants and invalids. Certain prepared	H. Epprecht	14,929	Nov. 15	41	700
Food for infants and invalids. Composition	C. A. Vogeler & Co	14,922	Nov. 8	41	582
Food for infants and invalids. Soluble	Reed & Carnrick	14,047	Feb. 1	38	422
Food preparation for infants and invalids	Horlick's Food Company	14,856	Oct. 25	41	358
Food preparation of white corn or maize	Cambridge Manufacturing Com- pany.	14,865	Nov. 1	41	470
Fresco material	J. J. Budd	14,603	July 19	40	250
Fruit-trees	Stark & Co	14,322	Apr. 26	39	366
Fruits. Green and dried California	Porter Bros. Company	14,598	July 12	40	122
Fuel-cartridges. Indestructible	G. S. Geer	14,904	Nov. 8	41	582
Furniture and wood-work. Liquid preparation for cleaning and polishing	Steffee & Judd	14,513	June 14	39	1206
Furniture-finish	T. H. Nevin & Co	14,539	June 21	39	1330
Furniture-polish	G. H. Allen	14,482	June 7	39	1088
Garment-supporters	A. E. Fuechsel	14,931	Nov. 15	41	700
Garments for men and boys	Solidity Co-operative Clothing Com- pany.	15,012	Dec. 6	41	1046
Garments. Men's, boys', youths', and children's outside	H. Bach	14,379	May 17	39	712
Gas-fixtures	United States Wenham Patent Gas Lamp Company.	14,517	June 14	39	1206
Gas-fixtures. Superheating	E. P. Gleason Manufacturing Com- pany.	14,020	Feb. 1	38	422
Gelatine	R. Cox	14,754	Sept. 13	40	1140
Gelatine made from the air-bladders of fish	Haskins Bros	15,015	Dec. 13	41	1168
Gin. Rye	Eastern Distilling Company	14,176	Mar. 22	38	1252
Gin. Rye	Eastern Distilling Company	14,556	June 28	39	1430
Ginger-snaps	Van Rensselaer & Co	13,958	Jan. 4	38	2
Ginghams	J. Farnum & Co	14,871	Nov. 1	41	470
Glassware, lamps, lanterns, brushes, and all other articles for household use.	T. Drysdale & Co	14,980	Nov. 29	41	938
Gloves	Abegg, Daeniker & Co	14,111	Mar. 1	38	903
Gloves. Kid	V. X. Jouvin	14,055	Feb. 8	38	546
Gloves. Kid and other leather	F. Turner	14,661	Aug. 2	40	450
Glue	J. B. M. Duché	14,634	July 26	40	350
Glue	Samson Manufacturing Co	15,003	Dec. 6	41	1046

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Glue.....	Thomas Manufacturing Company...	14,270	Apr. 12	39	124
Glue. Liquid fish.....	Le Page's Liquid Glue and Cement Company.	14,468	May 31	39	964
Glue. Liquid fish.....	Le Page's Liquid Glue and Cement Company.	14,480	May 31	39	964
Glue. Liquid fish.....	Le Page's Liquid Glue and Cement Company.	14,481	May 31	39	964
Glue. Liquid fish.....	Le Page's Liquid Glue and Cement Company.	14,558	June 28	39	1430
Gold and material for decorating and coloring earthenware, porcelain, and glass. Liquid	Deutsche Gold & Silber Scheide Anstalt, vorm. Roessler.	14,100	Feb. 22	38	786
Gold-leaf for teeth-filling.....	C. A. Timme.....	14,449	May 24	39	836
Grease or tallow for lubricating purposes.....	J. Williams.....	14,175	Mar. 15	38	1134
Grease wood-tar elixir for diseases of the air-passages and cactus cream for the skin and complexion.	J. E. Osborne.....	14,562	June 28	39	1430
Grinding-mills. Portable.....	P. Hobler.....	13,988	Jan. 18	38	234
Guano.....	R. A. Wooldridge & Co.....	15,010	Dec. 6	41	1046
Guano. Artificial.....	R. H. Wooldridge & Co.....	15,032	Dec. 13	41	1168
Gum-arabic or mucilage. Substitute for.....	C. Morningstar & Co.....	14,472	May 31	39	964
Gum. Chewing.....	Adams & Sons.....	14,677	Aug. 16	40	698
Gum. Chewing.....	W. J. White.....	15,009	Dec. 6	41	1046
Gunpowder.....	Schultze Gunpowder Company.....	14,787	Sept. 27	40	1344
Hair in curl. Preparation for keeping the.....	F. W. Bates.....	14,894	Nov. 8	41	582
Hair. Liquid dressing for the.....	E. Meyer.....	14,210	Mar. 29	38	1370
Hair. Preparation for the.....	J. C. Aver Company.....	14,566	July 5	40	2
Hair. Preparation for the.....	J. A. White.....	14,628	July 19	40	250
Hair-restorer.....	Reuben's Hair Restorer Co.....	14,717	Aug. 30	40	922
Ham, bacon, lard, tongues, and sausages.....	A. L. Hoyer.....	14,107	Mar. 1	38	902
Hams and flitches.....	Cleveland Provision Company.....	14,604	July 19	40	250
Hams. Smoked.....	J. E. Ferrer.....	13,941	Jan. 4	38	2
Hammocks. Woven.....	A. Beals.....	14,848	Oct. 25	41	358
Harmonicas.....	Rogge & Koch.....	14,476	May 31	39	964
Harmonicas.....	Rogge & Koch.....	14,542	June 21	39	1330
Harness and saddles.....	L. D. Stone & Co.....	14,766	Sept. 13	40	1140
Harness and saddles, chaperejos, saddle-bags, fenders, housings, bridles, and horse-blankets.	Becker & Leonard.....	14,994	Dec. 6	41	1046
Hats and caps.....	J. Vimenet Fils.....	13,951	Jan. 4	38	2
Hats and caps. Fur.....	B. Altman & Bro.....	14,326	Apr. 26	39	366
Hats, caps, gentlemen's furnishing goods, and clothing.....	A. Herzstam.....	14,142	Mar. 8	38	1020
Hats for men and boys.....	Gordon & Ferguson.....	14,178	Mar. 22	38	1252
Hats. Men's and boys'.....	Gordon & Ferguson.....	14,795	Oct. 4	41	2
Hay-elevators, hay-carriers, and hay-forks.....	Janesville Hay Tool Company.....	14,511	June 14	39	1206
Hay-rakes. Horse.....	Ohio Iron Wheel Company.....	15,040	Dec. 20	41	1276
Heating by hot water. Apparatus for.....	Gurney Hot Water Heater Company.....	14,064	Feb. 8	38	516
Heel and sole plates.....	Sacks & Richmond.....	14,035	Feb. 1	38	422
Heel-nailing machines.....	National Heeling Machine Company.....	14,656	Aug. 2	40	450
Hoes.....	Iowa Farming Tool Company.....	14,225	Mar. 29	38	1370
Hog and beef products.....	Nebraska City Packing Company.....	14,712	Aug. 30	40	922
Hog meats and lard.....	W. Gunstone.....	14,710	Aug. 30	40	922
Homespun, hand-made laces, embroideries, under-linen, and knitted goods. Made-up	A. M. Hart.....	14,140	Mar. 8	38	1020
Hop-grubs. Exterminating compound for.....	W. Cady.....	14,579	July 12	40	122
Horse-blankets.....	W. Ayres & Sons.....	14,696	Aug. 23	40	814
Horse-blankets and horse-sheets.....	W. Ayres & Sons.....	14,722	Sept. 6	40	1034
Horseshoe-nails.....	Simmons Hardware Company.....	13,979	Jan. 11	38	110
Hose. Black.....	Brown, Durrell & Co.....	14,340	May 3	39	472
Hose for men, women, and children.....	Lord & Taylor.....	15,022	Dec. 13	41	1168
Hose. Linen or fabric fire.....	J. McGregor.....	14,573	July 5	40	2
Hosiery.....	W. G. Johnson, Jr.....	14,819	Oct. 11	41	128
Hosiery.....	Smith & Angell.....	14,844	Oct. 18	41	238
Hosiery and underwear.....	Mills & Gibb.....	14,375	May 10	39	592
Hosiery and underwear.....	O'Shea Brothers.....	14,347	May 3	39	472
Hot-air furnaces.....	H. G. Hart & Co.....	13,972	Jan. 11	38	110
Husks. Baled.....	C. R. Van de Carr.....	14,078	Feb. 15	38	664
Hydrants.....	Meyer, Sniffen Company.....	14,639	July 26	40	350
Ingots of copper.....	Boston and Colorado Smelting Company.	14,123	Mar. 8	38	1019
Injection for gonorrhea and gleet.....	B. Tuma.....	14,890	Nov. 1	41	470
Ink, gelatinized paper, and the accessories for hectograph copying, and a kit for working the same.	F. W. Zimmer.....	15,011	Dec. 6	41	1046
Ink. Indelible.....	Carter, Dinsmore & Co.....	14,927	Nov. 15	41	700
Ink. Safety.....	Carter, Dinsmore & Co.....	14,867	Nov. 1	41	470
Inks. Writing.....	H. C. Stephens.....	14,282	Apr. 12	39	124
Insect and vermin destroyers.....	W. F. Horn.....	14,957	Nov. 22	41	820
Insect-powder.....	G. H. Randall.....	14,964	Nov. 22	41	820
Insulated wires or electrical conductors.....	Okonite Company.....	14,988	Nov. 29	41	938
Iron and steel, cutlery, hardware, locks, and tools. Bar, plate, and other forms of	T. Drysdale & Co.....	14,981	Nov. 29	41	938
Iron. Wrought.....	J. Groves.....	14,955	Nov. 22	41	820
Jacket. Cardigan.....	Thorne, Carroll & Co.....	14,448	May 24	39	836
Jewelry.....	J. F. Hopkinson & Co.....	15,053	Dec. 20	41	1276
Jewelry and silver-ware.....	S. F. Myers & Co.....	14,059	Feb. 8	38	546
Kerosene.....	Moore & Tudor.....	14,114	Mar. 1	38	902
Kid or morocco. Mat and glazed.....	C. S. Söhne.....	14,037	Feb. 1	38	422
Knit garments.....	Ellithorp & Co.....	14,607	July 19	40	250
Knit suits for outside garments, including knit caps and knit sashes.	J. McCreery & Co.....	14,586	July 12	40	122
Knit underwear.....	G. T. Stoneman.....	14,721	Aug. 30	40	922
Knitted jackets, armlets, leggings, mittens, gloves, and shirts.	C. Lupprian.....	14,181	Mar. 22	38	1252
Knitting-cotton.....	Riddle Manufacturing Co.....	14,416	May 17	39	712
Knives, forks, and other cutlery, and edge tools.....	J. Dixon & Sons.....	14,807	Oct. 11	41	128
Knives, forks, spoons, tongs, picks, ladles, scoops, sifters, and shakers made of silver, or of a baser metal plated with silver.	Towle Manufacturing Company.....	14,254	Apr. 5	39	2
Lamp-black. Car-painters'.....	L. Martin & Co.....	14,882	Nov. 1	41	470

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Lamps and lanterns. Burners for.....	R. E. Dietz.....	14,794	Oct. 4	41	2
Lamps and lanterns. No-chimney burners for.....	R. E. Dietz.....	14,898	Nov. 8	41	582
Lamps and tubular lanterns. Tubular.....	R. E. Dietz Company.....	15,062	Dec. 27	41	1394
Lamps, candle-holders, candles, and night-lights.....	S. Clarke.....	14,996	Dec. 6	41	1046
Lamps. Glass chimneys for kerosene or petroleum.....	Jones, McDuffee & Stratton.....	14,618	July 19	40	250
Lamps. Glass chimneys for kerosene or petroleum.....	Jones, McDuffee & Stratton.....	14,734	Sept. 6	40	1034
Lanterns or lamps and stoves. Tubular.....	R. E. Dietz Company.....	14,569	July 5	40	2
Lard.....	Les Fils de A. Paret.....	14,840	Oct. 18	41	238
Lard. Refined and leaf.....	G. C. Napheys & Son.....	15,067	Dec. 27	41	1394
Laundry-blue, detergents, and starch.....	J. Ascough.....	14,747	Sept. 13	40	1140
Lead. White.....	Carter White Lead Company.....	14,523	June 14	39	1206
Leather and metal goods. Preparation for cleaning and polishing.....	B. Beddow & Sons.....	14,529	June 21	39	1330
Leather-dressing. Water-proof.....	E. Brundige.....	13,939	Jan. 4	38	2
Leather. Oak harness.....	J. C. Lappe & Sons.....	14,668	Aug. 9	40	580
Leather. Patent, japanned, and enameled.....	C. & J. Pyle Company.....	14,239	Apr. 5	39	2
Leather. Patent, japanned, and enameled.....	C. & J. Pyle Company.....	14,240	Apr. 5	39	2
Leather. Shoe and harness.....	F. Turner.....	14,767	Sept. 13	40	1140
Lemons.....	D. Cuccio.....	14,221	Mar. 29	38	1370
Lime-juice.....	Evans, Sons & Co.....	14,782	Sept. 27	40	1344
Linen and half-linen goods.....	Remy, Schmidt & Pleissner.....	14,475	May 31	39	964
Liniment.....	Arabian Spavin Cure Co.....	14,378	May 17	39	712
Liniment.....	Blake & Woodward.....	13,984	Jan. 18	38	234
Liniment.....	C. J. Clark.....	14,834	Oct. 18	41	238
Liniment.....	V. W. Cleveland.....	14,259	Apr. 12	39	124
Liniment.....	A. B. De Grath.....	14,164	Mar. 15	38	1134
Liniment.....	F. C. Herrington.....	14,731	Sept. 6	40	1034
Liniment.....	F. S. Hutchinson & Co.....	14,582	July 12	40	122
Liniment.....	B. F. Jones.....	14,405	May 17	39	712
Liniment.....	M. M. Lagrant.....	14,310	Apr. 19	39	248
Liniment.....	D. Loreaux.....	14,443	May 24	39	836
Liniment.....	A. T. Snyder.....	13,950	Jan. 4	38	2
Liniment.....	Staats Pine Liniment Company.....	14,061	Feb. 8	38	546
Liniment.....	C. A. Thomas and J. S. Peters.....	14,944	Nov. 15	41	700
Liniment.....	D. Vansickle.....	14,992	Nov. 29	41	938
Liniment.....	C. A. Vogeler Co.....	14,086	Feb. 22	38	786
Liniment.....	C. A. Vogeler Co.....	14,518	June 14	39	1206
Liniment.....	C. A. Vogeler Co.....	14,519	June 14	39	1206
Liniment.....	W. W. Wells.....	14,095	Feb. 22	38	786
Liniment. Liquid.....	T. Tindale.....	14,062	Feb. 8	38	546
Liniment. Oil.....	A. Loomis.....	14,412	May 17	39	712
Liniment or salve.....	N. P. Cleaves.....	14,975	Nov. 29	41	938
Liniments and ointments.....	J. W. Potts.....	14,237	Apr. 5	39	2
Liquors and wines. Spirituous.....	D. Nicholson.....	14,191	Mar. 22	38	1252
Lotion for the skin.....	Garver Drug Co.....	14,165	Mar. 15	38	1134
Lotion for the skin.....	A. S. Hinds.....	14,985	Nov. 29	41	938
Lozenges, tablets, sticks, and drops. Cough.....	Chase & Co.....	14,016	Feb. 1	38	422
Lubricating compound.....	M. J. Kearney and E. J. Hoffman.....	14,309	Apr. 19	39	248
Lubricants for frictional surfaces.....	A. C. Buzby.....	15,013	Dec. 13	41	1168
Lumber and sawed cypress shingles. Sawed pitch-pine.....	G. W. Wright.....	14,564	June 28	39	1430
Macaroni, vermicelli, and other edible pastes, and also preserves.....	Veuve Garres, Jeune, et Fils.....	14,984	Nov. 29	41	938
Mainsprings for time-pieces.....	J. Robert & Co.....	14,916	Nov. 8	41	582
Malt extract of liquid bread.....	D. Nicholson.....	14,193	Mar. 22	38	1252
Marble compound. Imitation.....	A. B. Joy.....	14,813	Oct. 11	41	128
Mattresses.....	Pack & Son.....	14,474	May 31	39	964
Meat mincing or cutting machines.....	Lloyd & Supplee Hardware Co.....	13,944	Jan. 4	38	2
Meats. Cured and canned.....	A. Fowler.....	14,983	Nov. 29	41	938
Medical appliance for use in cases of catarrh and similar diseases.....	A. J. Spinner.....	14,720	Aug. 30	40	922
Medical compound for the treatment of female diseases.....	N. C. Davis.....	14,374	May 10	39	592
Medical compound. Tonic.....	H. H. Ayer.....	14,525	June 21	39	1330
Medical drugs.....	W. H. Schieffelin & Co.....	14,588	July 12	40	122
Medical drugs.....	W. H. Schieffelin & Co.....	14,589	July 12	40	122
Medical remedies. Certain-named.....	C. M. Arnold.....	14,424	May 24	39	836
Medical vaginal suppositories.....	A. F. Horton.....	14,261	Apr. 12	39	124
Medicated gum for curing toothache.....	E. H. Rath, C. W. Link, Jr., and R. E. Schmidt.....	15,056	Dec. 20	41	1276
Medicated soap, pills, ointments, salves, and dental preparations.....	Ichthyol Gesellschaft Cordes, Hermann & Company.....	15,017	Dec. 13	41	1168
Medicated soaps, pills, ointments, salves, and dental preparations.....	Ichthyol-Gesellschaft Cordes, Hermann & Company.....	15,054	Dec. 20	41	1276
Medicinal astringent preparations.....	Geddes Manufacturing Co.....	14,571	July 5	40	2
Medicinal compound for internal and external use.....	G. H. Rundle.....	14,076	Feb. 15	38	664
Medicinal compounds and pills. Liquid.....	J. H. Bradsworth.....	14,228	Apr. 5	39	2
Medicinal compounds or mixtures.....	T. W. Powell.....	14,886	Nov. 1	41	470
Medicinal cordial.....	A. Ebner.....	14,489	June 7	39	1088
Medicinal cordial.....	W. T. Gutherson.....	14,022	Feb. 1	38	422
Medicinal fruit lozenge.....	R. H. Vansant & Co.....	14,219	Mar. 29	38	1370
Medicinal plasters.....	Johnson & Johnson.....	14,025	Feb. 1	38	422
Medicinal preparation for external and internal use. Fluid.....	Radway & Company.....	14,764	Sept. 13	40	1140
Medicinal preparation for the cure of diseases of the blood and skin.....	E. Lilly & Company.....	14,711	Aug. 30	40	922
Medicinal preparation for the treatment of fevers and other specified diseases.....	H. Lamplough.....	14,616	July 19	40	250
Medicinal preparation in liquid and pill form used as a nerve tonic.....	F. E. & J. A. Greene.....	14,491	June 7	39	1088
Medicinal preparation in the form of a lotion.....	W. C. Lynde and H. M. Hough.....	14,065	Feb. 8	38	546
Medicinal preparation of a prophylactic character.....	W. Radam.....	15,026	Dec. 13	41	1168
Medicinal preparations.....	C. J. Schill.....	14,253	Apr. 5	39	2
Medicinal preparations for allaying hoarseness and irritation of the throat.....	C. F. Webber.....	14,484	June 7	39	1088
Medicinal purposes. Drugs and chemicals for.....	L. Lauranson.....	14,126	Mar. 8	38	1019
Medicinal purposes. Waters for.....	Natural Mineral Water Company.....	14,400	May 17	39	712
Medicinal remedies. Certain.....	I. A. Detchon.....	14,755	Sept. 13	40	1140

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Medicinal remedies. Certain named	A. K. Carruthers	14,753	Sept. 13	40	1140
Medicinal remedies. Certain named	P. Hochstrasser	15,052	Dec. 20	41	1276
Medicinal remedies. Certain named	F. Stearns & Company	14,626	July 19	40	250
Medicinal remedy for external and internal use	A. Lepper & Co.	14,179	Mar. 22	38	1252
Medicinal remedy for internal and external use and for certain named diseases.	J. D. Palmer	14,597	July 12	40	122
Medicinal specific for throat, lung, and stomach diseases.	Franklin Medicine Co	14,923	Nov. 8	41	582
Medicinal tea	A. Lepper & Co.	14,180	Mar. 22	38	1252
Medicinal vegetable compounds in liquid or solid form and for external or internal use.	Creasinger & Co	14,260	Apr. 12	39	124
Medicine	A. B. Smith	14,788	Sept. 27	40	1344
Medicine. Blood-purifying	H. C. Bragg	14,504	June 14	39	1206
Medicine compounded of roots and herbs	Lougee Medicine Company	14,596	July 12	40	122
Medicine. Cough	W. Purcell	14,131	Mar. 8	38	1020
Medicine for animals	C. H. Land	14,319	Apr. 26	39	366
Medicine for curing chills and purifying the blood. Liquid.	M. V. and W. S. J. Green	14,709	Aug. 30	40	922
Medicine for diseases of the liver in which hops form the principal ingredient.	Howard Bros	13,942	Jan. 4	38	2
Medicine for external and internal use and for certain named diseases.	L. A. Chadwick	14,506	June 14	39	1206
Medicine for hemorrhoids or piles	H. R. Bauman	14,678	Aug. 16	40	698
Medicine for horses and cattle	Somerville Medicine Co	14,401	May 17	39	712
Medicine for internal and external use	Radway & Company	14,821	Oct. 11	41	128
Medicine for internal and external use. Liquid	G. Sloan	14,036	Feb. 1	38	422
Medicine for kidney diseases, dyspepsia, liver complaints, and similar diseases. Liquid	O. P. Sweet	14,514	June 14	39	1206
Medicine for malarial and kindred diseases	Kaskine Company	14,736	Sept. 6	40	1034
Medicine for preventing and curing certain named diseases.	F. S. Hutchinson & Co.	14,334	Apr. 26	39	366
Medicine for the cure of kidney diseases	H. M. Boardman	14,862	Nov. 1	41	470
Medicine for the cure of malaria, chills, and ague	A. H. and C. Tiers and H. H. McAlister.	15,058	Dec. 20	41	1276
Medicine for the cure of rheumatism	A. Manheim	14,444	May 24	39	836
Medicine for the cure of rheumatism. Compounded	J. Snelling	14,458	Mar. 8	38	1020
Medicine for the cure of rheumatism, neuralgia, and liver and blood diseases.	S. Hartzell	14,204	Mar. 29	38	1370
Medicine for the prevention and cure of hog-cholera	Bragdon Manufacturing Company ..	14,293	Apr. 19	39	248
Medicine for the treatment of the genital organs	J. Ferré	14,930	Nov. 15	41	700
Medicine for use in inflammation of the bladder and urethra.	P. K. Clark	14,330	Apr. 26	39	366
Medicine. Hog	S. W. Kahn	14,934	Nov. 15	41	700
Medicine in the form of suppositories	South Bend Medicine Company	14,117	Mar. 1	38	902
Medicine. Liquid proprietary	Evans Chemical Company	14,305	Apr. 19	39	248
Medicine. Nerve and blood	W. Ryder	14,104	Feb. 22	38	786
Medicine to be taken internally	D. Kennedy	14,876	Nov. 1	41	470
Medicine. Tonic	T. J. Boyd	14,864	Nov. 1	41	470
Medicine. Tonic	C. S. Warner	14,455	May 24	39	836
Medicines. Cathartic	M. M. Davies	14,000	Jan. 25	38	334
Medicines. Certain named	B. W. Hart	14,333	Apr. 26	39	366
Medicines containing sarsaparilla. Proprietary	J. C. Ayer Company	14,527	June 21	39	1330
Medicines for malarial diseases. Proprietary	J. C. Ayer Company	14,528	June 21	39	1330
Medicines for pulmonary and throat diseases	J. C. Ayer Company	14,526	June 21	39	1330
Medicines for the cure of dyspepsia and malaria	F. Hiller, Jr	15,064	Dec. 27	41	1394
Medicines. Horse	J., Jr., and J. Brittain	14,153	Mar. 8	38	1020
Metal. Anti-friction	E. L. Post	14,031	Feb. 1	38	422
Metal. Articles for cleaning and polishing	F. G. Baker	13,983	Jan. 18	38	234
Metal. Babbitt	E. H. Huenefeld	14,232	Apr. 5	39	2
Metal. Compound for polishing and cleaning	Matchless Metal Polish Company ..	14,497	June 7	39	1088
Metal consisting of a composition of metals. Hard white ..	T. E. Purchase	14,963	Nov. 22	41	820
Metal from rust. Compound to protect	J. F. Nolan	14,281	Apr. 12	39	124
Metal goods. Embossed	Osborn & Peck	14,234	Apr. 5	39	2
Metal tubes	Warren Tube Company	14,768	Sept. 13	40	1140
Metals and glass. Cleaning-powder for	J. A. Wright & Co.	14,565	June 28	39	1430
Milk. Condensed	Helvetia Milk Condensing Company.	13,954	Jan. 4	38	2
Milk. Condensed	N. Y. Condensed Milk Company ..	14,051	Feb. 8	38	546
Mills, machinery, steam-engines, and mill and engine supplies	E. P. Allis & Co	14,423	May 24	39	836
Mineral-spring water	Apollinaris Company	14,549	June 28	39	1430
Mineral-spring water	Manitou Mineral Water Bath and Park Company.	14,354	May 3	39	472
Mineral-spring water	Manitou Mineral Water Bath and Park Company.	14,355	May 3	39	472
Mineral-spring water and medicinal preparations containing said water.	Massasoit Spring Water Co.	14,773	Sept. 20	40	1246
Mineral-spring water. Natural	Apollinaris Company	14,545	June 28	39	1430
Mineral-spring water. Natural	Apollinaris Company	14,546	June 28	39	1430
Mineral-spring water. Natural	Apollinaris Company	14,547	June 28	39	1430
Mineral water	Apollinaris Company	14,972	Nov. 29	41	938
Mineral water, its salts and constituents, and all compounds containing said water, salts, or constituents. Natural	Apollinaris Company	15,006	Dec. 6	41	1046
Mineral water. Natural	Apollinaris Company	14,970	Nov. 29	41	938
Mineral water. Natural	Apollinaris Company	14,971	Nov. 29	41	938
Mineral water. Natural	Apollinaris Company	15,005	Dec. 6	41	1046
Mineral water. Natural	C. F. Fish	14,809	Oct. 11	41	128
Mineral water. Natural	H. Hürter	14,005	Jan. 25	38	334
Mineral water. Natural	E. Von Eckardstein	14,507	June 14	39	1206
Mineral water, soda-water, kali-water, and ginger-ale. Artificial	Carbonated Beverage Co.	15,007	Dec. 6	41	1046
Mineral waters	H. Mattoni	14,987	Nov. 29	41	938
Mineral waters. Natural	C. S. Upton	14,671	Aug. 9	40	580
Mineral waters. Natural	C. S. Upton	14,672	Aug. 9	40	580
Mineral waters, their salts, and medicinal preparations, dry and liquid, containing said waters or salts. Natural and artificial	Apollinaris Company	14,548	June 28	39	1430
Mineral waters, their salts, and medicinal preparations, dry and liquid, containing said waters or salts. Natural and artificial	Apollinaris Company	14,550	June 28	39	1430
Mittens and gloves	A. G. Jennings & Sons	14,909	Nov. 8	41	582

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Title.	Name.	No.	Date.	Official Gazette.	
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Mitts, gloves, hose, and hand and arm coverings	A. G. Jennings & Sons	14,066	Feb. 8	38	546
Mitts, gloves, hose, and hand and arm coverings	A. G. Jennings & Sons	14,466	May 31	39	964
Mitts, hair-nets, gloves, hose, and hand and arm coverings	A. G. Jennings & Sons	14,206	Mar. 29	38	1370
Mixture for disorders of the stomach. Herbaceous	C. F. Kelley	14,082	Feb. 15	38	664
Mowers, Lawn	Mast, Foos & Company	14,356	May 3	39	472
Mucilage, cement, and glue	Jungbluth & Weingartner	14,366	May 10	39	592
Musical instruments	J. H. Foote	14,080	Feb. 15	38	664
Musical instruments. Gut strings for	Lyon & Healy	14,127	Mar. 8	38	1020
Musical instruments. Wind	F. Besson & Co	14,724	Sept. 6	40	1034
Muslins. Unbleached	H. B. Claflin & Co	14,431	May 24	39	836
Mustard	W. J. Bellville	14,371	May 10	39	592
Mustard. Ground dry	Markell Bros	14,881	Nov. 1	41	470
Nasal balm	G. T. Fulford	14,516	June 14	39	1206
Nerve-food and non-alcoholic stimulant	Great Golden Seal Drug Company	14,954	Nov. 22	41	820
Newspaper or pamphlet. Weekly	Public Opinion Company	14,130	Mar. 8	38	1020
Nuts	Bennett, Day & Co	14,776	Sept. 27	40	1344
Nuts	Bennett, Day & Co	14,995	Dec. 6	41	1046
Oat groats	Douglas & Stuart	14,404	May 17	39	712
Oil. Coal-	Pacific Oil Company	14,574	July 5	40	2
Oil. Cod-liver	J. J. McCarty	14,027	Feb. 1	38	422
Oil. Illuminating-	Lombard, Ayres & Company	14,958	Nov. 22	41	820
Oil. Illuminating-	Scotfield, Schurmer & Teagle	15,027	Dec. 13	41	1168
Oil. Kerosene-	W. H. Crossman & Bro	14,633	July 26	40	350
Oil. Lubricating-	Lombard, Ayres & Company	14,352	May 3	39	472
Oil. Lubricating-	Lombard, Ayres & Company	14,442	May 24	39	836
Oil. Machine-	Markle Engineering Company	14,839	Oct. 18	41	238
Oil. Refined petroleum-	C. Brewer & Co	14,486	June 7	39	1088
Oil stones and whetstones	A. F. Pike Manufacturing Company	14,740	Sept. 6	40	1034
Oil. Water-white illuminating-	Relief Oil Works	14,576	July 5	40	2
Oils and compounds. Lubricating	A. G. Belden	14,680	Aug. 16	40	698
Oils. Illuminating and lubricating	Coombs, Crosby & Eddy	14,792	Oct. 4	41	2
Oils. Lubricating-	Bliven, Carrington & Co	14,287	Apr. 19	39	248
Oils. Lubricating-	Bliven, Carrington & Co	14,485	June 7	39	1088
Oils. Lubricating-	Bliven, Carrington & Co	14,804	Oct. 11	41	128
Oils. Lubricating-	Bliven, Carrington & Co	14,861	Nov. 1	41	470
Ointment	W. H. Cornell	14,997	Dec. 6	41	1046
Ointment	P. Quinn	14,575	July 5	40	2
Ointment	L. B. Weymouth & Co	14,042	Feb. 1	38	422
Ointment and medicated soap	H. P. Witherstine	14,091	Feb. 22	38	786
Ointment for skin diseases	A. H. Covell	14,793	Oct. 4	41	2
Ointment for the treatment of horses and cattle	A. D. Ashley	14,552	June 28	39	1430
Ointment. Tetter	Baker & Co	14,814	Oct. 11	41	128
Ointments	J. Day	14,928	Nov. 15	41	700
Ointments and salves	C. P. Caldwell	14,043	Feb. 1	38	422
Ointments. Base for	McKesson & Robbins	14,335	Apr. 26	39	366
Ointments, salves, pills, medicated liquids, and soaps	Ichthyol-Gesellschaft Cordes, Hermann & Company	14,875	Nov. 1	41	470
Optical, philosophical, and scientific instruments and apparatus.	Perken, Son & Rayment	14,223	Mar. 29	38	1370
Oranges and lemons	Pasquale Maria de Pasquale	14,235	Apr. 5	39	2
Oysters	H. J. Lewis	15,019	Dec. 13	41	1168
Oysters	H. J. Lewis	15,020	Dec. 13	41	1168
Packing for hydraulic and steam purposes. Flax	Clinton Manufacturing Co	14,487	June 7	39	1088
Paint. House-	Dettloff & Stearns	14,869	Nov. 1	41	470
Paint ready for use. Prepared	Acme White Lead and Color Works	14,649	Aug. 2	40	450
Paints	Tarr & Wonson	14,563	June 28	39	1430
Paints. Elastic	Koch & Townsend	14,440	May 24	39	836
Paints in paste form and mixed ready for use	A. Wilhelm	14,373	May 10	39	592
Paints. Mixed	Coffin, Devoe & Company	14,567	July 5	40	2
Paints. Ready-mixed	S. Hazlett & Co	14,344	May 3	39	472
Pamphlets and books	Harper & Brothers	13,971	Jan. 11	38	110
Pantaloon	E. F. Miller	14,058	Feb. 8	38	546
Pantaloon	E. F. Miller	14,075	Feb. 15	38	664
Pantaloon	H. Morris & Bro	14,336	Apr. 26	39	366
Paper and envelopes. Note-	G. B. Hurd & Co	14,308	Apr. 19	39	248
Paper and envelopes. Note-	G. B. Hurd & Co	14,684	Aug. 16	40	698
Paper and envelopes. Note-	G. B. Hurd & Co	14,685	Aug. 16	40	698
Paper bags	New York Paper Bag Machine and Manufacturing Company	14,268	Apr. 12	39	124
Paper-cutting machines for printers and book-binders	P. A. Noyes & Co	14,337	Apr. 26	39	366
Paper for bank and other checks, bills of exchange, drafts, and all vouchers of value. Safety-	A. Smith and G. La Monte	14,226	Mar. 29	38	1370
Paper of all kinds	A. Smith	14,659	Aug. 2	40	450
Paper. Toilet-	Albany Perforated Wrapping Paper Company	14,859	Nov. 1	41	470
Paper. Wrapping and lining	R. W. Peach	13,992	Jan. 18	38	234
Peanuts	Hills Bros	14,683	Aug. 16	40	698
Peas	A. B. Cleveland Company	13,957	Jan. 4	38	2
Peas	A. B. Cleveland Company	14,070	Feb. 15	38	664
Peas	A. B. Cleveland Company	14,121	Mar. 1	38	902
Peas	A. B. Cleveland Company	14,122	Mar. 1	38	902
Peas	A. B. Cleveland Company	14,460	May 31	39	964
Perfumery	F. R. Arnold & Co	14,185	Mar. 22	38	1252
Perfumery	E. Meyer	14,187	Mar. 22	38	1252
Perfumery	Young, Ladd & Coffin	14,313	Apr. 19	39	248
Perfumery and powders	McKesson & Robbins	13,947	Jan. 4	38	2
Perfumery and toilet-powders	Vogeler, Son & Co	13,959	Jan. 4	38	2
Perfumery extract	T. Kingsford	14,838	Oct. 18	41	238
Perfumery in essences, extracts, dilutions, and combinations thereof with soaps, oils, rice powder, and cosmetics.	E. Meyer	14,208	Mar. 29	38	1370
Perfumery in essences, extracts, dilutions, and powders and combinations thereof in soaps, oils, and cosmetics.	E. Meyer	14,213	Mar. 29	38	1370
Perfumery in essences, extracts, dilutions, and powders and combinations thereof in soaps, oils, cosmetics, and toilet-powders.	E. Meyer	14,209	Mar. 29	38	1370

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Perfumery in essences, extracts, dilutions, and powders and combinations thereof in soaps, oils, cosmetics, and toilet-powders.	E. Meyer	14,211	Mar. 29	38	1370
Perfumery in essences, extracts, dilutions, and powders and combinations thereof in soaps, oils, cosmetics, and toilet-powders.	E. Meyer	14,212	Mar. 29	38	1370
Periodicals and books	W. Harris	15,036	Dec. 20	41	1276
Perspiration-absorbent in the form of a powder	Clemens Manufacturing Company ..	14,698	Aug. 23	40	814
Perspiration-powders	J. M. Hawley	14,700	Aug. 23	40	814
Petroleum	C. W. B. Weber	14,362	May 3	39	472
Petroleum and turpentine	F. Probst & Co	14,842	Oct. 18	41	238
Petroleum for illuminating purposes. Refined	Waters Pierce Oil Company	14,522	June 14	39	1206
Petroleum. Refined	Lombard, Ayres & Company	14,044	Feb. 1	38	422
Petroleum. Refined	Lombard, Ayres & Company	14,045	Feb. 1	38	422
Petroleum. Refined	Lombard, Ayres & Company	14,046	Feb. 1	38	422
Pharmaceutical preparations	W. S. Powell	14,090	Feb. 22	38	786
Phosphatesherbet	W. E. Beck & Co	14,650	Aug. 2	40	450
Photographic dry-plates	G. Cramer	14,249	Apr. 5	39	2
Pills	T. Beecham	14,689	Aug. 23	40	814
Pills	F. W. Jackson	14,278	Apr. 12	39	124
Pills	J. H. Pendleton	14,702	Aug. 23	40	814
Pills	Radway & Company	14,704	Aug. 23	40	814
Pills	D. A. Robinson	14,630	July 19	40	250
Pills	W. Ryder	14,242	Apr. 5	39	2
Pills	B. C. Steele	14,323	Apr. 26	39	366
Pills	B. C. Steele	14,361	May 3	39	472
Pills	H. S. Wedmore	15,059	Dec. 20	41	1276
Pills. Alterative	J. F. Smith & Co	14,966	Nov. 22	41	820
Pills. Alterative and liver	J. H. Stont	14,745	Sept. 6	40	1034
Pills, female tonic pills, liniments, and salves. Ague or chill ..	J. T. Lowrey	14,617	July 19	40	250
Pills for human use	F. Sanders	14,800	Oct. 4	41	2
Pills, liniments, ointments, salves, and liquid and solid medicinal preparations	M. A. Briggs	14,631	July 26	40	350
Pills, parvules, granules, tablets, powders, extracts, effervescent salts, and medicinal elixirs, wines, and sirups.	W. R. Warner & Co	14,969	Nov. 22	41	820
Pine lumber and timber and sawed cypress shingles. Sawed pitch-	L. H. Green	15,051	Dec. 20	41	1276
Pine-wool fabrics and preparations	L. & E. Lairitz	14,074	Feb. 15	38	664
Plasters	H. S. Johnston	14,998	Dec. 6	41	1046
Plated wares for household use. Gold and silver	W. Rogers Manufacturing Company ..	14,687	Aug. 16	40	698
Pliant material having an ornamental surface in low relief ..	L. Prang & Co	14,703	Aug. 23	40	814
Plows	C. Billups	14,363	May 10	39	592
Plows	C. E. Hunter	14,092	Feb. 22	38	786
Plows and plow-points	Gowanda Agricultural Works Co. ..	14,772	Sept. 20	40	1246
Plows. Sulky	Economist Plow Company	14,202	Mar. 29	38	1370
Plumbers' porcelain wares	C. A. Blessing	13,961	Jan. 11	38	110
Plumbers' stench-traps	M. M. C. Brandeis and H. G. Dougherty.	15,033	Dec. 20	41	1276
Polish for boots and shoes	J. McComber	14,960	Nov. 22	41	820
Polish for leather, metals, and glazed fabrics. Liquid	R. F. S. Heath	14,873	Nov. 1	41	470
Polish for wood-work	C. Baron	13,952	Jan. 4	38	2
Pomade	H. Cohen	14,402	May 17	39	712
Pomade. Putz-	A. Vogt & Co	14,247	Apr. 5	39	2
Porcelain, china, glass, and analogous wares	Haviland & Co	14,002	Jan. 25	38	334
Porcelain, china, glass, and analogous wares	Haviland & Co	14,003	Jan. 25	38	334
Potash	J. Brower & Co	14,112	Mar. 1	38	902
Pots and kettles	Palmer Manufacturing Company	14,358	May 3	39	472
Pottery for table use	Jones, McDuffee & Stratton	14,735	Sept. 6	40	1034
Powders and paints. Face	C. Herbert	14,654	Aug. 2	40	450
Powders. Headache	V. G. Hamill	14,572	July 5	40	2
Preparation for the skin. Toilet	Ruger & Rupp	14,241	Apr. 5	39	2
Preparations for the hair, teeth, complexion, and hands	T. S. Peck	14,236	Apr. 5	39	2
Preservative liquids	Avenarius Brothers	14,048	Feb. 8	38	546
Preserved fruits	W. T. Coleman & Co	14,343	May 3	39	472
Preserved fruits and vegetables	Les Fils de Ch. Teyssonneau, Jne. ..	13,990	Jan. 18	38	234
Preserved fruits, cordials, and sauce	H. B. Barrow	14,138	Mar. 8	38	1020
Preserved pulque	Mexican Pulque Company	14,498	June 7	39	1088
Preserves, fruits, vegetables, fish, cheese, and sauces	C. P. F. Holtz	14,537	June 21	39	1330
Preserves, jellies, fruits, vegetables, and meats	Erie Preserving Company	14,900	Nov. 8	41	582
Prints and cotton piece goods	Arnold Print Works	15,047	Dec. 20	41	1276
Prints and cotton piece goods	Arnold Print Works	15,048	Dec. 20	41	1276
Proprietary preparation in the form of pastilles	H. B. S. Morrell	15,023	Dec. 13	41	1168
Pumps. Centrifugal	W. O. Webber	14,945	Nov. 15	41	700
Pumps. Steam-jet	W. J. Sherriff	15,043	Dec. 20	41	1276
Raisins	F. Rolfe	14,799	Oct. 4	41	2
Razor-paste and paste for preserving leather	J. L. Mathews	14,143	Mar. 8	38	1020
Refrigerating-machines	Frick Company	14,229	Apr. 5	39	2
Remedies for diseases of the liver and lungs, ague medicine, tonics, vermifuge, and soothing-drops.	Dr. Harter Medicine Company	14,555	June 28	39	1430
Remedies for diseases of the liver and lungs, ague medicines, tonics, vermifuge, soothing-drops, and liniments.	Dr. Harter Medicine Company	14,781	Sept. 27	40	1344
Remedies for diseases of the liver, kidneys, stomach, and bowels, tonics, bitters, cough-sirup, liniments, pills, and pile ointment.	A. Cable	15,014	Dec. 13	41	1168
Remedies for external use in the form of liquids or plasters ..	C. Rothkranz	14,941	Nov. 15	41	700
Remedies for female disorders	Bradfield Regulator Company	13,962	Jan. 11	38	110
Remedies for female disorders	Bradfield Regulator Company	14,150	Mar. 8	38	1020
Remedies for female use	Bradfield Regulator Company	14,151	Mar. 8	38	1020
Remedies for female use	Bradfield Regulator Company	14,152	Mar. 8	38	1020
Remedies for gonorrhea	Ragan & Jordan	14,741	Sept. 6	40	1034
Remedies to prevent abnormal perspiration, applied in the form of a bath.	J. V. Brandau	14,951	Nov. 22	41	820
Remedy compounded of roots, herbs, and barks for chronic diseases.	J. M. Willis & Co	14,663	Aug. 2	40	450
Remedy for all diseases of the throat and lungs	W. Wiltse, Jr.	14,162	Mar. 8	38	1020

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Remedy for colds, rheumatism, fevers, erysipelas, diphtheria, and indigestion.	J. M. Palmer	14,214	Mar. 29	38	1370
Remedy for diseases of the mouth, nose, and throat.	J. Scharr	13,994	Jan. 18	38	234
Remedy for general debility.	Chase & Fitchit	14,805	Oct. 11	41	128
Remedy for lung and throat diseases.	A. Wilson	13,982	Jan. 11	38	110
Remedy for rheumatism.	W. H. Bell	14,426	May 24	39	836
Remedy for rheumatism.	E. Hickey	14,004	Jan. 25	38	334
Remedy for the cure of rheumatism and for internal use.	A. H. Warner	14,479	May 31	39	964
Remedy for toothache.	E. Winters	14,947	Nov. 15	41	700
Remedy for treating horses' hoofs.	J. B. Campbell	14,651	Aug. 2	40	450
Ribbons.	Abegg, Daeniker & Co.	14,993	Dec. 6	41	1046
Ribbons.	J. & J. Cash	14,097	Feb. 22	38	786
Ribbons.	J. & J. Cash	14,098	Feb. 22	38	786
Rings, knobs, gaskets, &c., molded or compressed and containing asbestos.	Johns Pratt Company	14,345	May 3	39	472
Rings, solid watch-cases, and other solid jewelry. Solid-gold finger-	H. Muhr's Sons	14,029	Feb. 1	38	422
Rings, solid watch-cases, and other solid jewelry. Solid-gold finger-	H. Muhr's Sons	14,083	Feb. 15	38	664
Rock-drilling machine.	M. C. Bullock Manufacturing Com- pany.	14,258	Apr. 12	39	124
Rubber belting.	Revere Rubber Company	14,415	May 17	39	712
Rubber belting, hose, and packing.	Revere Rubber Company	15,002	Dec. 6	41	1046
Rubber boots and rubber shoes.	J. Murray	14,797	Oct. 4	41	2
Rubber clothing.	Boston Rubber Company	14,697	Aug. 23	40	814
Rubber clothing. Articles of.	Boston Rubber Company	14,674	Aug. 9	40	580
Rubber goods.	O. H. Curtis	13,940	Jan. 4	38	2
Rubber goods. Hard.	Butler Hard Rubber Company	14,532	June 21	39	1330
Rubber sundries for druggists and stationers.	J. F. Doty	14,581	July 12	40	122
Rubber wearing-apparel.	Lambertville Rubber Company	14,113	Mar. 1	38	902
Saddlery-hardware.	C. C. Brown	14,257	Apr. 12	39	124
Saddlery-hardware, harness-trimmings, harness-leather, horse-blankets, sheets, fly-nets, and whips.	R. S. Luqueer & Co.	14,167	Mar. 15	38	1134
Saddles. Riding.	Whitman Saddle Company	14,255	Apr. 5	39	2
Salines. Effervescent or non-effervescent.	R. C. Scott	14,965	Nov. 22	41	820
Salt.	A. Kerr, Bro. & Co.	14,686	Aug. 16	40	698
Salt. Dairy and table.	Butters & Peters Salt and Lumber Company.	14,554	June 28	39	1430
Salts. Smelling.	W. S. Thomson	14,694	Aug. 23	40	814
Salts. Smelling.	W. S. Thomson	15,030	Dec. 13	41	1168
Salve.	J. F. Corry	14,403	May 17	39	712
Salve or ointment for toilet or medicinal use.	C. F. York	14,220	Mar. 29	38	1370
Salves.	T. Canz	14,868	Nov. 1	41	470
Salves, ointments, washes, and detergents.	Arnicarboline Company	14,551	June 28	39	1430
Sarsaparilla-root.	M. Cabdis	14,284	Apr. 12	39	124
Sattees.	Wheelright, Anderson & Co.	14,146	Mar. 8	38	1020
Sauce. Table.	Crosse & Blackwell	14,154	Mar. 8	38	1020
Sauces. Meat, fish, and game.	Soyer Sauce Co.	14,822	Oct. 11	41	128
Scissors, razors, pocket-knives, and table-knives.	C. B. Barker & Company	14,227	Apr. 5	39	2
Screws and nuts. Taps, dies, and chasers for cutting.	C. Elterich	14,899	Nov. 8	41	582
Seeds. Farm, garden, and lawn.	Northrup, Braslan & Goodwin Com- pany.	14,540	June 21	39	1330
Sewing-machines for stitching leather.	E. James	14,262	Apr. 12	39	124
Shaving-tonic.	C. B. Weston	14,812	Oct. 11	41	128
Shawls.	W. Bliss & Son	14,924	Nov. 15	41	700
Sheetings and drills. Brown.	Russell & Co.	14,084	Feb. 15	38	664
Sheetings, shirtings, printed fabrics, dress goods, and ginghams.	F. C. Harder	14,872	Nov. 1	41	470
Ship-logs.	T. Walker & Son	14,422	May 17	39	712
Ship-logs and sounding-machines.	T. Walker & Son	14,420	May 17	39	712
Ship-logs and sounding-machines.	T. Walker & Son	14,421	May 17	39	712
Ship-logs and sounding-machines.	T. Walker & Son	14,450	May 24	39	836
Shirts.	J. Godhelp	14,021	Feb. 1	38	422
Shirts. Dress.	D. McCarthy & Sons	14,469	May 31	39	964
Shirts. Dress.	D. McCarthy & Sons	14,470	May 31	39	964
Shirts, collars, and cuffs.	J. May	14,959	Nov. 22	41	820
Shirtings.	Boott Cotton Mills	14,679	Aug. 16	40	698
Shirtings. Bleached.	Boott Cotton Mills	14,863	Nov. 1	41	470
Shoes.	A. M. Herrod & Co.	14,384	May 17	39	712
Shoes.	A. M. Herrod & Co.	14,906	Nov. 8	41	582
Shoes.	Lawrence, Berry & Co.	14,878	Nov. 1	41	470
Shoes.	T. W. & I. M. Munroe	14,619	July 19	40	250
Shoes. Boys' and youths'.	W. Dorsch & Sons	14,315	Apr. 26	39	366
Shoes. Youths', ladies', misses', and children's.	F. L. Foster & Sons	14,831	Oct. 18	41	238
Sight-feed lubricators.	Acme Lubricator Co.	14,578	July 12	40	122
Silk and half-silk goods.	E. Niepmann & Co.	14,301	Apr. 19	39	248
Silk and machine-twist. Sewing.	Lister & Co.	14,233	Apr. 5	39	2
Silk and part-silk goods.	E. Niepmann & Co.	14,300	Apr. 19	39	248
Silk dress goods.	J. Wanamaker	15,070	Dec. 27	41	1394
Silk dress-goods, ribbons, velvets, plushes, and ties.	J. Loth & Co.	13,945	Jan. 4	38	2
Silk-waste yarns, velvets, velvet ribbons, and fancy dress goods.	Lister & Co.	14,265	Apr. 12	39	124
Silks and ribbons. Broad.	F. W. Alcock	14,147	Mar. 8	38	1020
Silks for dress goods. Broad.	Hess, Goldsmith & Co.	14,810	Oct. 11	41	128
Silver, nickel-silver, britannia, and plated goods.	J. Dixon & Sons	14,806	Oct. 11	41	128
Sinks. Slop.	Meyer, Sniffen Company	14,645	July 26	40	350
Skin and complexion. Cream for the.	Acme Chemical Co.	14,339	May 3	39	472
Skirt-bands.	Canfield Rubber Company	13,999	Jan. 25	38	334
Sleds and toboggans. Coasting.	Johnson, Emerson & Co.	14,081	Feb. 15	38	664
Snuff, fine-cut, plug, and chewing and smoking tobacco.	P. Lorillard & Co.	14,496	June 7	39	1088
Soap.	J. Cervinka	14,430	May 24	39	836
Soap.	J. Crosfield & Sons	14,976	Nov. 29	41	938
Soap.	W. C. Lamm	14,279	Apr. 12	39	124
Soap and cleansing compositions.	B. Brooke & Co.	14,826	Oct. 18	41	238

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Soap and powder for sore and tender feet.....	F. Round	14,786	Sept. 27	40	1344
Soap. Family.....	J. Cervinka.....	14,342	May 3	39	472
Soap. Family.....	N. K. Fairbank & Company	14,001	Jan. 25	38	334
Soap. Family.....	N. K. Fairbank & Co	14,316	Apr. 26	39	366
Soap. Family.....	M. Ward & Co	14,377	May 10	39	592
Soap for laundry and general purposes	J. C. Davis & Son.....	14,568	July 5	40	2
Soap for laundry, toilet, and general purposes.	Lever Bros.....	14,441	May 24	39	836
Soap for laundry, toilet, and general purposes.....	Oberne, Hosick & Co.....	14,170	Mar. 15	38	1134
Soap. Hard.....	J. F. Morse & Co	14,115	Mar. 1	38	902
Soap. Hard.....	Newell & Bro.....	14,937	Nov. 15	41	700
Soap in bars or cakes.....	Union Soap Co.....	14,077	Feb. 15	38	664
Soap in cakes and bars for laundry and toilet purposes.....	G. A. Shoudy & Son.....	14,243	Apr. 5	39	2
Soap. Laundry.....	Oberne, Hosick & Co	14,035	Feb. 1	38	422
Soap. Laundry.....	Procter & Gamble	14,367	May 10	39	592
Soap. Laundry.....	W. Waltka & Co.....	14,452	May 24	39	836
Soap. Laundry.....	W. Waltka & Co.....	14,453	May 24	39	836
Soap. Laundry.....	W. Waltka & Co.....	14,454	May 24	39	836
Soap. Laundry and toilet.....	Falk Bros.....	14,203	Mar. 29	38	1370
Soap. Laundry and toilet.....	C. F. Miller.....	14,057	Feb. 8	38	546
Soap-powder.....	C. Davis & Co	14,364	May 10	39	592
Soap-powders	F. J. Harrison & Company.....	14,828	Oct. 18	41	238
Soap. Toilet or laundry	W. Waltke & Co	14,451	May 24	39	836
Soap. Tooth.....	F. A. Sarg's Son & Co	14,801	Oct. 4	41	2
Soap. White castile.....	Stallman & Fulton	14,118	Mar. 1	38	902
Soaps and perfumes. Toilet	W. Hill.....	14,385	May 17	39	712
Soaps, cosmetics, hair-oils, and perfumes. Perfumed	W. S. Thomson	15,045	Dec. 20	41	1276
Soaps of all kinds. Laundry and toilet	Gowans & Stover	14,156	Mar. 8	38	1020
Soaps of all kinds. Laundry and toilet	Gowans & Stover	14,157	Mar. 8	38	1020
Solution for beautifying the skin. Liquid	B. F. Downing, Jr	14,977	Nov. 29	41	938
Solutions for hypodermic injections	S. Huggett.....	15,016	Dec. 13	41	1168
Soup for human food. Preparations of.....	F. King & Company	15,018	Dec. 13	41	1168
Soup for human use	F. King & Company	14,999	Dec. 6	41	1046
Specific for affections of the liver.....	W. F. Shook.....	14,348	May 3	39	472
Specific for bronchitis and laryngitis.....	Bronchocura Company.....	14,725	Sept. 6	40	1034
Spool-holders.....	S. Danelius & Co.....	14,071	Feb. 15	38	664
Springs or stiffeners for dresses and corsets. Steel	C. K. Pevey	14,885	Nov. 1	41	470
Starch. Laundry.....	B. Brown	14,897	Nov. 8	41	582
Starch. Laundry.....	Sleeper Starch Company.....	14,742	Sept. 6	40	1034
Stationery. Various articles of.....	J. C. Blair	13,985	Jan. 18	38	234
Stays, corsets, health-waists, and elastic body-supports. Dress-.....	Warren Featherbone Company	14,478	May 31	39	964
Stays or corsets	H. T. Sykes.....	14,989	Nov. 29	41	938
Stockings	A. W. Starker	14,039	Feb. 1	38	422
Stoneware for druggists' use. Acid-proof.....	Oliphant & Co	14,713	Aug. 30	40	922
Stove-polish.....	W. H. Colebrook & Co.....	14,815	Oct. 11	41	128
Stove-polish.....	F. H. Schweizer.....	14,060	Feb. 8	38	546
Stoves and ranges for burning coal, wood, gas, and oil. Cooking and heating.....	De Haven & Co.....	14,106	Mar. 1	38	902
Stoves. Paste blacking or polish for.....	G. H. West	14,161	Mar. 8	38	1020
Stoves, ranges, and heating-furnaces. Heating, cooking, gasoline, and oil	Smith & Anthony Stove Company ..	14,744	Sept. 6	40	1034
Stoves, ranges, parlor-heaters, and furnaces.....	N. H. Galusha	14,818	Oct. 11	41	128
Straw-stacking machines.....	Newark Machine Company	14,883	Nov. 1	41	470
Sugar. Substitute for.....	W. C. Hickman	13,973	Jan. 11	38	110
Suitings. Tailors'	Waumbeck Company	14,144	Mar. 8	38	1020
Suitings. Tailors'	Waumbeck Company	14,145	Mar. 8	38	1020
Suppositories for curing female diseases.....	D. P. Stedman	14,670	Aug. 9	40	580
Suspenders and braces	Suffolk Manufacturing Company.....	14,038	Feb. 1	38	422
Suspenders and braces	Suffolk Manufacturing Company.....	14,040	Feb. 1	38	422
Suspenders and braces	Suffolk Manufacturing Company.....	14,889	Nov. 1	41	470
Suspenders, garters, and armlets	Armstrong Manufacturing Company.....	14,079	Feb. 15	38	664
Suspenders or braces.....	C. C. Carpenter	13,986	Jan. 18	38	234
Table-ware. Electroplated	Meriden Britannia Company.....	14,935	Nov. 15	41	700
Tea.....	I. Boutell Grocery Company	14,974	Nov. 29	41	938
Tea.....	G. Mann	14,353	May 3	39	472
Tea.....	Siegfried & Brandenstein	13,978	Jan. 11	38	110
Tea, coffee, cocoa, and spices.....	R. E. Pineo Co	14,622	July 19	40	250
Tea. Japan.....	Bell, Conrad & Co	14,690	Aug. 23	40	814
Teas.....	P. J. Towle & Co	14,119	Mar. 1	38	902
Teas. Japan.....	Mourilyan, Heimann & Co.....	14,357	May 3	39	472
Teas. Mixed.....	Russell & Co.....	14,194	Mar. 22	38	1252
Teas of all kinds	J. A. Tolman Company	14,590	July 12	40	122
Teeth and hair. Preparations for the.....	Ichthyol-Gesellschaft Cordes, Hermann & Company.....	14,874	Nov. 1	41	470
Tickings, gingham, and all kinds of cotton goods.....	J. Farnum & Co	14,901	Nov. 8	41	582
Time-piece dials	M. V. B. Ethridge	14,224	Mar. 29	38	1370
Tobacco and cigars. Manufactured.....	S. B. Minnich.....	14,299	Apr. 19	39	248
Tobacco. Chewing.....	A. Dill.....	13,965	Jan. 11	38	119
Tobacco. Chewing and smoking.....	G. W. Gail & Ax.....	14,708	Aug. 30	40	922
Tobacco. Chewing and smoking.....	Sparger Bros.....	14,719	Aug. 30	40	922
Tobacco, cigars, and cigarettes. Plug, chewing, and smoking.....	B. F. Hanes.....	14,023	Feb. 1	38	422
Tobacco, cigars, and cigarettes. Smoking and chewing.....	Solidarity Co-operative Cigar Factory.....	14,244	Apr. 5	39	2
Tobacco. Cut and dried or long-cut smoking.....	G. W. Gail & Ax.....	14,570	July 5	40	2
Tobacco. Cut and dried or long-cut smoking and chewing.....	G. W. Gail & Ax.....	14,902	Nov. 8	41	582
Tobacco. Cut and plug.....	G. E. and G. T. Tuckett	14,991	Nov. 29	41	938
Tobacco. Cut smoking.....	F. B. Case	14,294	Apr. 19	39	248
Tobacco. Fine plug and twist.....	Wemple, Ellerson & Co	14,303	Apr. 19	39	248
Tobacco. Fine plug and twist.....	Wemple, Ellerson & Co.....	14,304	Apr. 19	39	248
Tobacco. Granulated smoking.....	G. W. Gail & Ax.....	14,903	Nov. 8	41	582
Tobacco. Plug.....	Kurtz Bros.....	14,166	Mar. 15	38	1134
Tobacco. Plug.....	R. A. Patterson & Co	13,948	Jan. 4	38	2
Tobacco. Plug and smoking.....	T. C. Williams & Co.....	14,946	Nov. 15	41	700

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Tobacco. Plug chewing and smoking.....	Fawcett Durham Tobacco and Snuff Company.	14,490	June 7	39	1088
Tobacco. Smoking.....	W. Duke Sons & Company	13,966	Jan. 11	38	110
Tobacco. Smoking.....	F. W. Felgner & Son	14,437	May 24	39	836
Tobacco. Smoking.....	Kurtz Bros	14,256	Apr. 5	39	2
Tobacco. Smoking.....	E. J. Parrish	14,841	Oct. 18	41	238
Toilet articles and perfumery	J. B. Weaver	14,120	Mar. 1	38	902
Toilet lotion	A. M. McCarrison	15,055	Dec. 20	41	1276
Toilet materials. Perfumed	H. Tappan	13,980	Jan. 11	38	110
Toilet materials. Perfumed	H. Tappan	13,981	Jan. 11	38	110
Toilet preparation	G. C. Bittner & Co	13,953	Jan. 4	38	2
Toilet preparations	Lazell, Dalley & Co	14,006	Jan. 25	38	334
Toilet preparations and articles. Certain	J. & E. Atkinson	14,748	Sept. 13	40	1140
Toilet preparations and articles. Certain	J. & E. Atkinson	14,749	Sept. 13	40	1140
Toilet preparations and articles. Certain	J. & E. Atkinson	14,750	Sept. 13	40	1140
Toilet preparations and articles. Certain	J. & E. Atkinson	14,751	Sept. 13	40	1140
Toilet preparations. Certain named	M. Schirman	14,321	Apr. 26	39	366
Toilet preparations. Medicated	Potter Drug and Chemical Co	14,763	Sept. 13	40	1140
Toilet-water	T. Kingsford	14,877	Nov. 1	41	470
Toilet-waters	A. H. Frye	14,155	Mar. 8	38	1020
Tonic beverage	P. Best Brewing Company	14,896	Nov. 8	41	582
Tonic mixture and cholera-drops	F. D. Long	14,099	Feb. 22	38	786
Tonic preparation based on extracts of malt and hops	P. Best Brewing Company	14,283	Apr. 12	39	124
Tonic preparation based on extracts of malt and hops	P. Best Brewing Company	14,311	Apr. 19	39	248
Tonics and blood-purifiers	J. Eaton & Co	14,332	Apr. 26	39	366
Tonics. Nerve	Fairbanks & Neale	13,968	Jan. 11	38	110
Tools for mechanics and farming-tools. Edge	Kansas City Hardware Company	14,467	May 31	39	964
Tooth powder and paste	Johnson & Johnson	13,975	Jan. 11	38	110
Towels, figured and plain. Turkish	G. S. Cox	14,535	June 21	39	1330
Toys and kindergarten materials	F. A. Richter	14,785	Sept. 27	40	1344
Toys and kindergarten materials	F. A. Richter	14,798	Oct. 4	41	2
Troches and cough-balsam	M. R. Mulford	14,169	Mar. 15	38	1134
Trunks, traveling-bags, and satchels	E. Hager	14,653	Aug. 2	40	450
Tweeds, serges, woolen and worsted coatings, kersey checks, and prince's checks	W. Bliss & Son	14,950	Nov. 22	41	820
Twine. Binder	Aultman, Miller & Company	14,847	Oct. 25	41	358
Type-writers. Electrical	J. F. McLaughlin	14,784	Sept. 27	40	1344
Type-writing machines	Standard Typewriter Manufacturing Company.	14,823	Oct. 11	41	128
Umbrellas and parasols	A. Hirsh & Bro	14,510	June 14	39	1206
Underskirts	L. Dryfoos & Co	13,987	Jan. 18	38	234
Underwear	J. Hampf & Söhne	14,557	June 28	39	1430
Underwear	Warner Brothers	14,892	Nov. 1	41	470
Underwear. All kinds of	J. Holroyd	14,386	May 17	39	712
Underwear, dresses, and trousers for men and children. General	H. Q. Valton et Fils	14,338	Apr. 26	39	366
Underwear, hose, and half-hose for men, women, and children	A. L. Brown	14,139	Mar. 8	38	1020
Varnishes	J. A. Shephard	13,977	Jan. 11	38	110
Velvet pile fabric	Broome, Hallworth & Foster	14,314	Apr. 26	39	366
Velveteen	A. Louis	14,638	July 26	40	350
Vermicelli in fancy shapes	J. J. Langlés	14,125	Mar. 8	38	1019
Vermifuge	S. Mansfield & Co	14,911	Nov. 8	41	582
Vermin. Compound for exterminating	J. W. Ellis	14,463	May 31	39	964
Veterinary remedy	T. J. Köebler	14,637	July 26	40	350
Wall-finish	Harrison Bros. & Co	14,383	May 17	39	712
Wall-paper	C. H. Provost	14,414	May 17	39	712
Wash-boards	Union Manufacturing Company	13,997	Jan. 18	38	234
Washing compound. Liquid	C. W. Link, Jr.	15,000	Dec. 6	41	1046
Washing-powder	E. R. Olin	15,041	Dec. 20	41	1276
Washing-powders and soaps	E. S. Wells	14,011	Jan. 25	38	334
Watch-cases of gold, silver, and other metals and alloys of metal	Brooklyn Watch Case Company	14,014	Feb. 1	38	422
Watch-mainsprings	H. Zimmermann	15,046	Dec. 20	41	1276
Watch-movements which have been adjusted only to heat and cold	E. Howard Watch and Clock Company.	14,692	Aug. 23	40	814
Watch-movements which have been adjusted to heat, cold, isochronism, and position	E. Howard Watch and Clock Company.	14,733	Sept. 6	40	1034
Watch-movements which have not been adjusted	E. Howard Watch and Clock Company.	14,732	Sept. 6	40	1034
Watches	L. S. Friedberger & Co	14,608	July 19	40	250
Watches	A. Schwob	14,512	June 14	39	1206
Watches. Filled cases for	Dueber Watch Case Manufacturing Company.	14,605	July 19	40	250
Water-closet trough	Meyer, Sniffen Company	14,641	July 26	40	350
Water-closets	Meyer, Sniffen Company	14,640	July 26	40	350
Water-closets	Meyer, Sniffen Company	14,642	July 26	40	350
Water-proof garments for men, women, and children. Outside	I. M. and W. H. Conant	14,433	May 24	39	836
Waterproofing and leather-preserving. Compound for	Rosseter & Smith	14,116	Mar. 1	38	902
Wheat and rye flour, corn and oat meal, and buckwheat-flour	M. D. Stevens	14,577	July 5	40	2
Whetstones	A. F. Pike Manufacturing Company	14,658	Aug. 2	40	450
Whetstones	A. F. Pike Manufacturing Company	14,676	Aug. 9	40	580
Whetstones	A. F. Pike Manufacturing Company	14,714	Aug. 30	40	922
Whetstones	A. F. Pike Manufacturing Company	14,715	Aug. 30	40	922
Whetstones	A. F. Pike Manufacturing Company	14,716	Aug. 30	40	922
Whips. Carriage	A. C. Barnes Whip Company	14,948	Nov. 22	41	820
Whips and whip-lashes. Rawhide	A. C. Barnes & Co	14,096	Feb. 22	38	786
Whiskies	Kayser & Hegner	14,186	Mar. 22	38	1252
Whisky	Adams, Taylor & Co	14,695	Aug. 23	40	814
Whisky	A. Blum	14,427	May 24	39	836
Whisky	Brace, Norris & Co	14,341	May 3	39	472
Whisky	Early Times Distillery Company	14,606	July 19	40	250
Whisky	C. Goldsborough	14,297	Apr. 19	39	248
Whisky	P. H. Hartmann	14,853	Oct. 25	41	358

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Title.	Name.	No.	Date.	Official Gazette.	
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Whisky	P. H. Hartmann	14,854	Oct. 25	41	358
Whisky	P. H. Hartmann	14,855	Oct. 25	41	358
Whisky	H. E. Hudson	14,024	Feb. 1	38	422
Whisky	Hudson & Co	14,595	July 12	40	122
Whisky	W. B. King and E. H. Fordtran ..	14,093	Feb. 22	38	786
Whisky	M. O'Brien	15,024	Dec. 13	41	1168
Whisky	E. M. Tillmann	14,173	Mar. 15	38	1134
Whisky	F. Westheimer & Sons	14,456	May 24	39	836
Whisky. Hand-made sour-mash	Stein Bros. & Baumgartl	14,515	June 14	39	1206
Whisky. Rye	S. H. E., and S. Bloch	14,149	Mar. 8	38	1020
Whisky. Rye	W. R. Petzold	14,621	July 19	40	250
Window shadings and fixtures	J. C. Wemple Company	15,071	Dec. 27	41	1394
Wine	Mullaney & Hayes	14,007	Jan. 25	38	334
Wine	G. L. Wolf	14,312	Apr. 19	39	248
Wine, beer, distilled liquor, and mineral waters. Bottled ..	Koster & Bial	14,318	Apr. 26	39	366
Wine. Celery	C. M. Heer	14,509	June 14	39	1206
Wine. Champagne	Chandon & Co	14,295	Apr. 19	39	248
Wine. Champagne	L. H. L. R. Olry	14,101	Feb. 22	38	786
Wine. Champagne	J. Somborn	14,349	May 3	39	472
Wine. Champagne	Veuve Binet, Fils & Cie	14,458	May 31	39	964
Wine. Champagne	Veuve Binet, Fils & Cie	14,459	May 31	39	964
Wine. Champagne	Wachter & Co	14,136	Mar. 8	38	1020
Wine. Claret	F. De Bary & Co	14,953	Nov. 22	41	820
Wine or champagne. Sparkling	New Urbana Wine Company	14,762	Sept. 13	40	1140
Wine. Port	Walden & Co	14,858	Oct. 25	41	358
Wine. Sherry	Walden & Co	14,857	Oct. 25	41	358
Wine. Tokay	California Vintage Company	13,963	Jan. 11	38	110
Wines	W. T. Coleman & Co	14,780	Sept. 27	40	1344
Wines	C. Neppach	14,445	May 24	39	836
Wines and brandies	Walden & Co	14,891	Nov. 1	41	470
Wines and liquors	Holtz & Freystedt	14,664	Aug. 9	40	580
Wines and wine products	Pohndorff & Co	14,962	Nov. 22	41	820
Wines, beer, distilled liquors, and mineral waters	Koster & Bial	14,264	Apr. 12	39	124
Wines, brandies, and cordials	Webster & Sargent	14,591	July 12	40	122
Wines. Champagne	L. H. L. R. Olry	14,102	Feb. 22	38	786
Wines. Champagne	L. H. L. R. Olry	14,103	Feb. 22	38	786
Wire, wire rope, wire-work, twines, yarns, and hemp ropes ..	F. C. Guillaume	14,250	Apr. 5	39	2
Wood fiber. Hollow ware molded in one piece from	Union Indurated Fibre Company ..	14,921	Nov. 8	41	582
Woolen cloth	Dassel Woolen Mills Company	14,350	May 3	39	472
Woolen under-garments	Dr. Jaeger's Sanitary Woolen Sys- tem Company	14,908	Nov. 8	41	582
Woolen, worsted, hair, silk, and cotton piece goods, and piece goods containing a mixture of the same.	Maddocks, Booth & Co	15,038	Dec. 20	41	1276
Woolens, worsteds, overcoatings, cloakings, and dress-goods ..	J. Behrens & Sons	14,723	Sept. 6	40	1034
Wrenches	American Saw Company	14,524	June 21	39	1330
Yarn. Worsted and woolen	Davis, Marean & Co	14,728	Sept. 6	40	1034
Yarns, threads, and embroidering materials	Van Blankensteyn & Hennings	14,457	May 31	39	964
Yarns, threads, braids, and silk or linen webbing	H. E. Frankenberg	14,382	May 17	39	712
Yeast	Bridgeport Yeast Company	14,013	Feb. 1	38	422
Yeast. Bottled	Eupepsy Yeast Co	13,967	Jan. 11	38	110
Yeast-cakes	Diamond Yeast Co	14,729	Sept. 6	40	1034
Yeast-cakes	Home Yeast Cake Company	13,974	Jan. 11	38	110
Yeast-powder	Creole Manufacturing Company	14,816	Oct. 11	41	128
Yeast-powder	Michel & Co	15,066	Dec. 27	41	1394
Yeast-powder and baking-powder	Sherman Bros. & Co	14,843	Oct. 18	41	238
Yeast-powders	H. R. Gogreve	14,905	Nov. 8	41	582

ALPHABETICAL LIST OF LABELS.

Title.	Name.	No.	Date.	Official Gazette.	
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"A. D. Bizemont's Elixiere"	J. Baudot	5,374	Oct. 25	41	358
"A quick and sure cure for Rheumatism"	E. Nine	5,283	July 5	40	2
"A Savior's Liniment"	V. W. Cleveland	5,235	June 7	39	1088
"Acid," (For Mineral Waters)	American Carbonate Company	5,312	Aug. 2	40	450
"Adjustable," (For Sweat Hat Bands)	F. E. Randel	5,114	Feb. 15	38	664
"Aix la Chapelle Soft Sulphur Soap"	T. J. Marcellus	5,148	Mar. 8	38	1020
"Alnus Destillata," (for a Preparation of Tag Alder)	A. D. Ayer and J. Ritchie	5,077	Jan. 11	38	110
"Althans & Co's Preventive," (for a Medicine)	R. Althans	5,411	Nov. 15	41	700
"American Carlsbad Water"	W. P. O'Connor and R. Burke	5,439	Dec. 13	41	1168
"Antoine Arpin's Pain Exterminator" (for a Medicine)	A. Arpin	5,278	July 5	40	2
"Avena" (for Extract of Oats and Barley)	E. R. Gross & Co	5,279	July 5	40	2
"B. T. Babbitt 88 "Soap" 88 New York City. A Perfect Toilet Soap."	B. T. Babbitt	5,108	Feb. 8	38	546
"Baking Powder Manufactured only by the Columbia Baking Powder Co."	C. R. Groff	5,238	June 7	39	1088
"Barley and Oats," (For Extract of Oats and Barley)	E. R. Gross & Co	5,268	June 28	39	1430
"Barley Oats," (For Extract of Oats and Barley)	E. R. Gross & Co	5,265	June 28	39	1430
"Beau Brummel," (for Perfumery or Toilet Waters)	A. H. Frye	5,143	Mar. 8	38	1020
"Beaver Finish," (For Cloths)	T. Illingworth	5,316	Aug. 2	40	450
"Beef and Porter"	W. B. Wallace and H. Hall	5,151	Mar. 8	38	1020
"Bell's Poultry Spiced Seasoning"	W. G. Bell & Co	5,091	Jan. 25	38	334
"Best" Tonic"	P. Best Brewing Company	5,188	Apr. 12	39	124
"Black Liniment"	L. A. Chadwick	5,360	Oct. 11	41	128
"Blakelock's Retouching Varnish"	R. A. Blakelock	5,217	May 24	39	836
"Blaney's Ague Mixture"	F. M. Blaney	5,412	Nov. 15	41	700
"Blue Point Oysters"	E. M. Sammis	5,388	Oct. 25	41	358
"Boss Lunch Milk Biscuit"	C. D. Boss & Son	5,343	Sept. 13	40	1140
"Bragdon's Specific," (For a Remedy for Diseases of Poultry)	Bragdon Manufacturing Company	5,175	Apr. 5	39	2
"Brimmer's Oil," (For a Medicine)	J. W. Hocker	5,254	June 14	39	1206
"Bronson's Cough, Cold and Consumption Remedy"	Prue & Mooers	5,209	May 10	39	592
"Brook's Rawhide Fibre Trunk"	J. B. Brook	5,353	Oct. 4	41	2
"Brown's Instant Relief for Pain"	Norway Medicine Co	5,367	Oct. 11	41	128
"Business Envelope"	C. P. Crossman and H. S. Brown	5,430	Dec. 6	41	1046
"C. M. P. A. 2208," (for Barrels, Kegs and Tanks)	Coopers' Mutual Protective Association of Baltimore.	5,133	Mar. 1	38	902
"California Orange Cider"	W. Newlove and J. S. Morrow	5,282	July 5	40	2
"Campbell's Celebrated Rheumatic Remedy"	R. Campbell & Co	5,321	Aug. 16	40	698
"Car Painters," (For Lamp-Black)	L. Martin & Co	5,408	Nov. 8	41	582
"Carbolic Smoke Ball"	C. F. Cleaveland	5,349	Sept. 27	40	1344
"Cardinal Red Oil"	Tough, Rutherford & Co	5,249	June 7	39	1088
"Carpenter's Automatic Lace-Back Brace"	C. G. Carpenter	5,074	Jan. 4	38	2
"Carter's Household Indelible Ink"	Carter, Dinsmore & Co	5,422	Nov. 22	41	820
"Carter's Indelible Household Ink"	Carter, Dinsmore & Co	5,419	Nov. 22	41	820
"Carter's Indelible Ink"	Carter, Dinsmore & Co	5,421	Nov. 22	41	820
"Carter's Safety Ink"	Carter, Dinsmore & Co	5,418	Nov. 22	41	820
"Carter's Safety Ink"	Carter, Dinsmore & Co	5,420	Nov. 22	41	820
"Cartwright's Liquid Exterminator," (For an Insecticide)	J. Cartwright	5,163	Mar. 22	38	1252
"Celery Cough Wafers"	Celery Beef and Iron Extract Company.	5,164	Mar. 22	38	1252
"Celery Wine"	C. M. Heer	5,229	May 31	39	964
"Cereal Extract of Oats and Barley"	E. R. Gross	5,144	Mar. 8	38	1020
"Cervicene," (For a Suppository)	A. F. Horton	5,434	Dec. 13	41	1168
"Cervicene," (For a Suppository)	A. F. Horton	5,445	Dec. 20	41	1276
"Cheatham's Bilious Pills"	A. B. Richards and M. V. Cheatham.	5,244	June 7	39	1088
"Chemical & Vegetable Preparation," (for Painting Purposes)	L. H. Abrams	5,132	Mar. 1	38	902
"Cherry Phosphate," (For a Beverage)	E. Painter	5,334	Aug. 30	40	922
"Cherry Phosphate," (For a Beverage.)	D. E. Prall	5,300	July 19	40	250
"Chicago Carbon Stove Polish"	R. George	5,228	May 31	39	964
"Chocolate Bonbons"	Mason & Co	5,281	July 5	40	2
"Chronic Disease Pills"	W. W. Bowes	5,375	Oct. 25	41	358
"Coal Oil Soap"	M. J. Olds	5,158	Mar. 15	38	1134
"Coca-Cola Syrup and Extract"	J. S. Pemberton	5,272	June 28	39	1430
"Coca Nerve Tonic Concentrated Extract"	A. B. and L. S. Woolverton	5,311	July 26	40	350
"Comanche," (For a Remedy for Liver, Kidney, Stomach and Blood Diseases.)	P. E. Ring and A. N. Austin	5,107	Feb. 8	38	546
"Compound Mixture Helonin"	A. G. Schlotterbeck	5,247	June 7	39	1088
"Compound Pepsin Powder"	S. E. and G. L. Ullman	5,273	June 28	39	1430
"Compound Syrup Manganese"	A. G. Schlotterbeck	5,246	June 7	39	1088
"Congreve's Balsamic Elixir"	G. T. Congreve	5,101	Feb. 1	38	422
"Conroy's Wonderful Discovery," (For a Medicine)	J. W. Conroy	5,354	Oct. 4	41	2
"Conservatory Violin Strings"	Lyon & Healy	5,086	Jan. 11	38	110
"Cough Chewing Gum"	H. D. Smith & Co	5,399	Nov. 1	41	470
"Cox's Vegetable Dyspepsia Cure"	J. C. and C. Cox	5,350	Sept. 27	40	1344
"Craft's Cure"	W. J. Tomer	5,392	Oct. 25	41	358
"Cream of Tartar Baking Powder"	T. H. Hayner	5,239	June 7	39	1088
"Crosby's Cough Cure"	E. W. Crosby	5,085	Jan. 11	38	110
"Cut and Slash," (For Smoking Tobacco)	E. J. Parrish	5,394	Nov. 1	41	470
"Cydonia Cream," (For a Toilet Preparation)	J. M. Fisher	5,120	Feb. 22	38	786
"Davidson's Compound Elixir of Food Phosphates"	H. M. Davidson	5,415	Nov. 15	41	700
"Day's Neuralgia Cure"	W. L. Day	5,377	Oct. 25	41	358

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"De Smith's Asiatic Cramp and Cholera Composite"	D. Smith.....	5,337	Aug. 30	40	922
"De Smith's Liver and Kidney Healer"	D. Smith.....	5,398	Nov. 1	41	470
"Deming's Charcoal Directory"	A. B. Deming.....	5,431	Dec. 13	41	1168
"Deming's Charcoal the Great Absorption Carbon Cure"	A. B. Deming.....	5,109	Feb. 8	38	546
"Deming's Charcoal, The Great Carbon Renovator, etc"	A. B. Deming.....	5,192	Apr. 19	39	248
"Detchon's Rheumatism and Neuralgia Cure."	I. A. Detchon.....	5,298	July 19	40	250
"Doctor Fisherman's Improved Carbolized Alkaline Lotion"	W. C. Lynde and H. M. Hough.....	5,147	Mar. 8	38	1020
"Dodge's Certain Chicken Cholera Cure"	R. P. Dodge.....	5,106	Feb. 8	38	546
"Dr. Bates' Electro-Magnetic Cure"	Dr. Bates Medicine Co.....	5,355	Oct. 4	41	2
"Dr. Campbell's Arsenic Complexion Wafers"	J. P. Campbell.....	5,185	Apr. 12	39	124
"Dr. Chas. Jury's." (For a Liniment)	H. M. Jury.....	5,173	Mar. 29	38	1370
"Dr. Davies' Dakato Cholera Cure"	E. G. Davies.....	5,303	July 26	40	350
"Dr. Drake's Hair Restorative"	A. B. Drake.....	5,252	June 14	39	1206
"Dr. E. T. Barr's Local Anæsthetic," (For the Painless Ex- traction of Teeth.)	E. T. Barr.....	5,358	Oct. 11	41	128
"Dr. Flemming's Quinine and Camphor Pills"	G. T. Congreve.....	5,102	Feb. 1	38	422
"Dr. George's Dyspeptic Specific"	Clarkson & George.....	5,402	Nov. 8	41	582
"Dr. Gunn's Family Pills"	H. C. Dickins & Co.....	5,093	Jan. 25	38	334
"Dr. Gunn's Improved Liver Pills"	Bosanko Medicine Co.....	5,172	Mar. 29	38	1370
"Dr. H. H. Green & Son's Chill and Fever Specific"	H. H. Green & Sons.....	5,156	Mar. 15	38	1134
"Dr. Hale's Household Ointment"	Kenyon & Thomas.....	5,435	Dec. 13	41	1168
"Dr. Hebra's Viola Cream"	G. C. and M. A. Bittner.....	5,073	Jan. 4	38	2
"Dr. J. Conzelman's Celebrated Cough Syrup"	L. Conzelman.....	5,372	Oct. 18	41	238
"Dr. King's Summer Cordial"	F. H. Broad & Co.....	5,329	Aug. 30	40	922
"Dr. N. Potter's Favorite Compound." (For a Medicine)	H. N. Potter.....	5,220	May 24	39	836
"Dr. Newton's Eye Water"	H. S. Griggs.....	5,433	Dec. 13	41	1168
"Dr. Price's Delicious Extract of Lemon"	Price Baking Powder Company.....	5,397	Nov. 1	41	470
"Dr. Rupert's Own, No. 9,765, Prescription"	W. F. Hahn.....	5,199	Apr. 26	39	366
"Dr. R. W. Lougee's Clover Cure for Female Weakness"	Lougee Medicine Company.....	5,309	July 26	40	350
"Dr. R. W. Lougee's Juniper Kidney Cure"	Lougee Medicine Company.....	5,308	July 26	40	350
"Dr. R. W. Lougee's Vitalizing Compound"	Lougee Medicine Company.....	5,307	July 26	40	350
"Dr. Sam'l Hodges' Alterative Compound Sarsaparilla with Iodide Potash."	Campbell Bros.....	5,214	May 17	39	712
"Dr. Thompson's Michigan Liniment"	S. S. Thompson.....	5,174	Mar. 29	38	1370
"Dr. Wilde's Balsam, Great Blood Purifier"	F. W. Wilde.....	5,161	Mar. 15	38	1134
"Drawing Room Candles"	Phoenix Candle Company.....	5,284	July 5	40	2
"Dressing for Russia Iron."	G. W. Blair.....	5,297	July 19	40	250
"Du Morry's Malto-Phosphatic Food"	M. E. Hardwicke.....	5,427	Nov. 29	41	938
"Duckworth's Salts of Fruits"	O. Duckworth.....	5,189	Apr. 12	39	124
"Durfee's Sure Cure for Hay Fever, Rose Cold, and Nasal Catarrh."	C. B. Durfee.....	5,075	Jan. 4	38	2
"E. Merck, Darmstadt"	E. Merck.....	5,384	Oct. 25	41	358
"Eel-Skin Lined," (For Carriage Whips)	A. C. Barnes Whip Company.....	5,401	Nov. 8	41	582
"El Preservativo Cubano." (For Cigar Preservatives)	Christian & Piazza.....	5,197	Apr. 19	39	248
"Ellery's Sulphur Lozenges"	C. Ellery.....	5,253	June 14	39	1206
"Elm Bark Salve"	M. L. Armstrong.....	5,234	June 7	39	1088
"Export." (For Bottled Lager Beer)	F. Neumer.....	5,123	Feb. 22	38	786
"Extra Heavy Mucilage"	Pomeroy & Sons.....	5,396	Nov. 1	41	470
"Extra Test." (For Horse Blankets)	W. Ayres & Sons.....	5,442	Dec. 20	41	1276
"Extract of Moxie Nerve Food"	A. Thompson.....	5,256	June 14	39	1206
"Extract of Oats and Barley"	E. R. Gross & Co.....	5,264	June 28	39	1430
"Extract of Tea"	R. E. Huff.....	5,393	Nov. 1	41	470
"Favorite Aromatic Tooth Wash"	R. E. Smith.....	5,138	Mar. 1	38	902
"Female Regulator." (for a Medicine)	Bradfield Regulator Company.....	5,084	Jan. 11	38	110
"Fitch's Game of Natural History"	A. M. Fitch & Co.....	5,322	Aug. 23	40	814
"Fitch's Tolu." (for Chewing Gum)	A. M. Fitch.....	5,097	Jan. 25	38	334
"5/A Five Mile." (For Horse Blankets)	W. Ayres & Sons.....	5,212	May 17	39	712
"5/A Horse Blanket"	W. Ayres & Sons.....	5,211	May 17	39	712
"5 Cent Size Sterling Ball Potash"	New York Chemical Works.....	5,182	Apr. 12	39	124
"5 Cent Size Sterling Potash"	New York Chemical Works.....	5,181	Apr. 12	39	124
"Florida Cheroots"	S. S. Brian.....	5,130	Feb. 22	38	786
"Florida Water Prepared by Lazell, Dalley & Co. New York"	Lazell, Dalley & Co.....	5,446	Dec. 20	41	1276
"Forche's Rheumatic Soap"	E. H. Conover.....	5,119	Feb. 22	38	786
"Freligh's Tonic. A Phosphorized Cerebro-Spinant."	I. O. Woodruff.....	5,302	July 19	40	250
"French Rheumatic Cure"	F. Cummings and H. S. Worden.....	5,263	June 28	39	1430
"Fuchsia Buds." (For Pills)	F. S. Newby.....	5,366	Oct. 11	41	128
"Genuine Potash"	J. Brower & Co.....	5,142	Mar. 8	38	1020
"Genuine Smith Metallic Retouching Points"	W. C. Paul and C. T. Shape.....	5,310	July 26	40	350
"German Catarrh Cure"	J. H. Greer.....	5,237	June 7	39	1088
"German Politype Universal Feed Cylinder Sewing Ma- chines."	E. James.....	5,204	May 3	39	472
"Ginger Snaps"	Van Rensselaer & Co.....	5,076	Jan. 4	38	2
"Glüh Wein Extract." (Extract of Mulled Claret)	F. Madlener.....	5,436	Dec. 13	41	1168
"Gout and Rheumatic Remedy"	W. R. Kendall.....	5,290	July 12	40	122
"Graff's Pile Salve, is a Safe and Sure Cure for Piles"	H. Graff.....	5,362	Oct. 11	41	128
"Great African Anti-Malarial." (For a Medicine)	E. A. Derby.....	5,251	June 14	39	1206
"Great Temperance Drink, O-K Blood and Nerve Tonic"	S. Bear.....	5,287	July 12	40	122
"Green Tetter Cure"	Stauff & Foster.....	5,400	Nov. 1	41	470
"Green's Chill Cure and Blood Purifier"	M. V. and W. S. J. Green.....	5,331	Aug. 30	40	922
"H. Weidig's Universal-Herbal Ointment"	H. Weidig.....	5,196	Apr. 19	39	248
"Hafer's Celebrated Chalybeate Cure." (For an Ointment)	J. H. Hafer.....	5,276	June 28	39	1430
"Hair Restorer."	W. E. Morgan.....	5,299	July 19	40	250
"Hainer's Cough Syrup"	C. B. Mathis.....	5,437	Dec. 13	41	1168
"Hall's Chill Cure"	A. S. Hall and C. W. Logan.....	5,094	Jan. 25	38	334
"Hall's Juniper Kidney Cure"	W. E. Dement.....	5,426	Nov. 29	41	938
"Hall's Rheumatic Remedy." (For a Medicine)	J. E. Hall.....	5,178	Apr. 5	39	2
"Hand Made Sour Mash Whiskey"	Stein Bros. & Baumgartl.....	5,255	June 14	39	1206
"Hard to Beat." (For Flour)	Jennison Bros. & Co.....	5,306	July 26	40	350
"Hartley's Peruvian Bark Bitters"	W. D. Souders & Co.....	5,221	May 24	39	836
"Hassell's Easy to Take Worm Syrup"	Lapp Drug Company.....	5,365	Oct. 11	41	128
"Hayner's Pine Apple Drips"	Hayner Distilling Co.....	5,413	Nov. 15	41	700
"Heaton's Mullein, Tolu, and Tar, Cough Remedy"	J. C. and L. D. Heaton.....	5,111	Feb. 15	38	664
"Heaton's Screw Worm Oil"	J. C., L. D., and D. H. Heaton.....	5,112	Feb. 15	38	664
"Heinz's" (For Pickles and Condiments)	F. & J. Heinz.....	5,103	Feb. 1	38	422

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"Hendley & Marsh's Healing Salve"	J. Hendley and H. Marsh.....	5,240	June 7	39	1088
"Holland Soap"	J. F. Reed	5,440	Dec. 13	41	1168
"Hollenback's," (For a Cough Syrup)	D. S. Hollenback.....	5,345	Sept. 13	40	1140
"Home Yeast Cakes"	Home Yeast Cake Company	5,081	Jan. 11	38	110
"Hop Extract Baking Powder"	H. O. Thomas.....	5,088	Jan. 18	38	234
"Hop Ointment"	Hop Pill Manufacturing Company.....	5,305	July 26	40	350
"Huile D'Olive De Grasse"	Reid, Murdoch & Fischer.....	5,243	June 7	39	1088
"Huile D'Olive Vierge"	Reid, Murdoch & Fischer.....	5,242	June 7	39	1088
"Hunt's Cure," (Cure for Itch)	A. B. Richards and M. V. Cheat-ham.....	5,245	June 7	39	1088
"Hygeia," (For Tobacco)	T. C. Williams & Co.....	5,424	Nov. 22	41	820
"Indestructible Fuel Cartridge"	G. S. Geer	5,330	Aug. 30	40	922
"Injection," (for a Remedy for Venereal Diseases)	P. E. Montanus	5,096	Jan. 25	38	334
"Iron Phosphate," (For a Beverage)	A. A. Thomen	5,328	Aug. 23	40	814
"Ivory Tooth Powder"	J. C. Proben	5,117	Feb. 15	38	664
"J. M. Clark's Live Stock Medicine"	J. M. Clark	5,250	June 14	39	1206
"Jamestown Axe Co. E. F. Carpenter & Co. Proprietors, Extra Refined Cast Steel Axes, Jamestown, N. Y."	E. F. Carpenter & Co.....	5,275	June 28	39	1430
"Kerr Salt Co.," (for Salt)	A. Kerr Bro. & Co.....	5,291	July 12	40	122
"Kerr Salt Co.," (for Salt)	A. Kerr Bro. & Co.....	5,292	July 12	40	122
"Kidney Pills"	Seymour & Robinson.....	5,410	Nov. 8	41	582
"Knitting Works," (for Yarns and Worsted and Articles made therefrom.)	Nonantum Worsted Company.....	5,136	Mar. 1	38	902
"Kuefer Union No. 3, St. Louis, Mo.," (For Beer Barrels and Kegs, &c.)	G. La Bonde	5,241	June 7	39	1088
"Lactine Pills"	G. Howard.....	5,157	Mar. 15	38	1134
"Law's Label for Spools," (For Spools of Thread)	J. A. Law	5,271	June 28	39	1430
"Le Page's Liquid Glue"	Le Page's Liquid Glue and Cement Company.....	5,230	May 31	39	964
"Le Page's Liquid Glue"	Russia Cement Company	5,124	Feb. 22	38	786
"Le Page's Liquid Glue"	Russia Cement Company	5,125	Feb. 22	38	786
"Le Page's Liquid Glue"	Russia Cement Company	5,126	Feb. 22	38	786
"Le Page's Mucilage"	Russia Cement Company	5,127	Feb. 22	38	786
"Lemon and Lime Juice Pills and Pellets"	H. Mozley	5,324	Aug. 23	40	814
"Lily Chocolate Cream Drop"	W. M. Lowney.....	5,135	Mar. 1	38	902
"Linseed Cream," "(Perfumed)," (For a Toilet Preparation)	J. T. Billings	5,359	Oct. 11	41	128
"Lippincott's Cancer Salve"	J. P. Lippincott	5,280	July 5	40	2
"Liquid Dover's," (For a Solution of Dover's Powder)	G. W. McCray	5,382	Oct. 25	41	358
"Lisle-Spun," (For Umbrellas and Parasols)	S. S. Fretz	5,227	May 31	39	964
"Little Hop Pills"	Hop Pill Manufacturing Company.....	5,304	July 26	40	350
"Luken's Spavin Cure"	L. L. and E. L. Lukens.....	5,346	Sept. 13	40	1140
"M. P. Higgin's Blood Purifier and Health-Giving Elixir"	M. P. Higgin.....	5,270	June 28	39	1430
"Madame Lake's Electric Bitters"	A. E. Lake	5,219	May 24	39	836
"Make Your Own Soap"	Mechling Bros. & Co.....	5,438	Dec. 13	41	1168
"Markley's Positive Catarrh Cure"	Markley & Sons	5,149	Mar. 8	38	1020
"Mary L. Miller's Wormwood Ointment"	M. L. Miller	5,194	Apr. 19	39	248
"Match Cigar," (for Cigars made with a Match in the end of each one.)	T. B. Morris	5,150	Mar. 8	38	1020
"Mayo's Cut Cavendish"	P. H. Mayo & Brother	5,428	Nov. 29	41	938
"Mayo's Cut Cavendish," (for Tobacco)	P. H. Mayo & Brother	5,417	Nov. 15	41	700
"McNeil's Iron Plaster"	R. McNeil, Jr.....	5,383	Oct. 25	41	358
"Mebus'," (A Remedy for Chapped Lips, &c)	F. L. Mebus	5,169	Mar. 29	38	1370
"Menards Rheumatic Bullets"	B. C. Steele	5,205	May 3	39	472
"Mexican Salve"	W. E. Dement.....	5,425	Nov. 29	41	938
"Mihalovitch's Hungarian Blackberry Juice"	Mihalovitch, Fletcher & Co.....	5,333	Aug. 30	40	922
"Milk Baking Powder"	W. F. McLaughlin.....	5,347	Sept. 13	40	1140
"Milwaukee Malt Extract"	Milwaukee Malt Extract Company	5,131	Feb. 22	38	786
"Miner's 10c. Stick Salve"	J. E. Fleming.....	5,361	Oct. 11	41	128
"Mme. A. Favier's Prepared Seasoning"	A. J. Favier	5,218	May 24	39	836
"Moery's Japonica Extract," (For a Wash for the Hair)	J. B. Morey	5,339	Sept. 6	40	1034
"Moore & Sons' Pile Cure"	Moore & Sons Chemical Co.....	5,167	Mar. 22	38	1252
"Mrs. A. K. T. R. Carey's Preserve Jar Cover"	A. K. T. R. Carey	5,155	Mar. 15	38	1134
"Mrs. Hannah Cobb's Home Made Soap"	M. Ward & Co	5,207	May 10	39	592
"Mrs. Lagrant's Rubbing Liniment"	M. M. Lagrant.....	5,200	Apr. 26	39	366
"Mrs. M. G. Carter's Hair Invigorator and Pain Destroyer"	M. G. Carter	5,429	Dec. 6	41	1046
"Mrs. Nielsen's Compound Liniment"	A. H. Nielsen.....	5,385	Oct. 25	41	358
"Mühlbrunn," (For Natural Mineral Waters and Salt)	Eisner & Mendelson Company.....	5,378	Oct. 25	41	358
"Myrrh," (for a Tooth Soap)	C. Wright & Company.....	5,141	Mar. 1	38	902
"Nale's Reliable Shoe Blacking"	J. W. Nale	5,340	Sept. 6	40	1034
"National Tobacco Workers' Union of America—Union-Made Tobacco."	National Tobacco Workers' Union of America.....	5,137	Mar. 1	38	902
"Natro-Saline"	A. M. Greule	5,344	Sept. 13	40	1140
"Nebulizer. An Apparatus to Reduce Liquids into a Nebulous or Fog-like State."	A. P. Lighthill.....	5,122	Feb. 22	38	786
"Nerve and Liver Pills"	Dr. Miles Medical Company	5,288	July 12	40	122
"New Cure" (for Remedy for Heart Disease)	Dr. Miles Medical Company	5,289	July 12	40	122
"New Discovery Rupture Cure"	E. Olson	5,104	Feb. 1	38	422
"New Remedy," (For a Medicine)	J. K. Thomas, N. M. Ong, and J. L. Reed.....	5,449	Dec. 20	41	1276
"Nice Drinks," (For an Air Pump for Aerating Drinks)	J. Dixon	5,110	Feb. 8	38	546
"Nipon," (For Tea)	Mourilyan, Heimann & Co	5,215	May 17	39	712
"No. 1. D. Harley Kent's Specific Remedies. Absolutely Pure. No. 1 for the Blood. No. 2 for the Liver. No. 3 for the Kidneys. No. 4 for Rheumatism. No. 5 for Dyspepsia."	D. H. Kent.....	5,258	June 21	39	1330
"No. 2. D. Harley Kent's Specific Remedies. Absolutely Pure. No. 1 for the Blood. No. 2 for the Liver. No. 3 for the Kidneys. No. 4 for Rheumatism. No. 5 for Dyspepsia."	D. H. Kent.....	5,259	June 21	39	1330
"No. 3. D. Harley Kent's Specific Remedies. Absolutely Pure. No. 1 for the Blood. No. 2 for the Liver. No. 3 for the Kidneys. No. 4 for Rheumatism. No. 5 for Dyspepsia."	D. H. Kent.....	5,260	June 21	39	1330

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"No. 4. D. Harley Kent's Specific Remedies. Absolutely Pure. No. 1 for the Blood. No. 2 for the Liver. No. 3 for the Kidneys. No. 4 for Rheumatism. No. 5 for Dyspepsia."	D. H. Kent	5,261	June 21	39	1330
"No. 5. D. Harley Kent's Specific Remedies. Absolutely Pure. No. 1 for the Blood. No. 2 for the Liver. No. 3 for the Kidneys. No. 4 for Rheumatism. No. 5 for Dyspepsia."	D. H. Kent	5,262	June 21	39	1330
"Nut Shaped." (for Plug Tobacco)	S. B. Minnich	5,191	Apr. 12	39	124
"O. K. Cleansing Fluid." (for Removing Stains from Fabrics) ..	Guild & Co	5,332	Aug. 30	40	922
"O. K. Tolu Chewing Gum"	J. F. Hollerbach	5,166	Mar. 22	38	1252
"Oats and Barley." (For Extract of Oats and Barley)	E. R. Gross & Co	5,266	June 23	39	1433
"Oats and Barley Malt"	E. R. Gross Company	5,323	Aug. 23	40	814
"Oats Barley." (For Extract of Oats and Barley)	E. R. Gross & Co	5,267	June 23	39	1430
"Olds' Medicated Antiseptic Specifics"	E. F. Olds	5,186	Apr. 12	39	124
"Oleum Ovi." (For an Ointment)	C. W. Sitterly	5,391	Oct. 25	41	358
"Olio d'Oliva di Lucca"	Pinckney & Kahnweiler	5,325	Aug. 23	40	814
"Our Barbed Nail has no Equal"	Philips & Townsend	5,395	Nov. 1	41	470
"Our Matchless." (for Shoes)	Witkowski & Dunwody	5,153	Mar. 8	38	1020
"Pain Extractor"	J. H. Lowery	5,113	Feb. 15	38	664
"Parlor Volcanos." (For Fireworks for Parlor Use)	D. Baldwin	5,225	May 31	39	964
"Pastry." (For Flour)	J. P. Sutherland & Co	5,233	May 31	39	964
"Pearl White Lead"	S. Hazlett & Co	5,134	Mar. 1	38	902
"Pease's Horehound Candy, for Coughs and Colds"	C. G. Pease	5,105	Feb. 1	38	422
"Peek's Perfect Purifier." (For a Medicine)	C. N. Peek	5,357	Oct. 4	41	2
"Perfect Harness Dressing"	A. H. Kidney	5,364	Oct. 11	41	128
"Petroleum Emulsion."	A. E. Angier	5,373	Oct. 25	41	38
"Phosphate Nectar." (For a Beverage)	J. J. Wiggs and J. Coates	5,274	June 28	39	1430
"Phosphate Sherbet"	W. E. Beck & Co	5,313	Aug. 2	40	450
"Phosphorated Ginger Mead"	Tarrant & Co	5,171	Mar. 29	38	1370
"Pilwar." (For Cordial)	A. Ebner	5,236	June 7	39	1088
"Pine Balsam"	J. Burrill	5,079	Jan. 11	38	110
"Pomeroy's Psychrometer, An Automatic Home Signal Service Instrument for Forecasting the Weather."	H. R. Pomeroy	5,387	Oct. 25	41	358
"Pope's Fragrant Elder Flower Lotion"	H. G. and J. A. Hutchison	5,216	May 17	39	712
"Prof. Gowan's Great Scotch Rheumatism Cure"	G. Gowan	5,179	Apr. 12	39	124
"Pure Vegetable Glycerine"	Procter & Gamble	5,160	Mar. 15	38	1134
"Radway's Renovating Resolvent." (For a Medicine)	Radway & Company	5,368	Oct. 11	41	128
"Ready for Headache," "Horn's Great Headache and Neuralgia Specific."	W. F. Horn	5,444	Dec. 20	41	1276
"Red Lined Cedrinated Carpet Lining"	Hyatt Company	5,356	Oct. 4	41	2
"Reuter's Salve"	C. Reuter	5,352	Sept. 27	40	1344
"Richmond Made Cigars"	Union Cigar Manufacturers Protective Association of Richmond, Va., No. 1.	5,370	Oct. 11	41	128
"Riddell's Toilet Lotion"	B. F. Riddell	5,223	May 24	39	876
"Rio Cider"	W. H. Coote and J. W. Guerrant	5,376	Oct. 25	41	358
"Ritter's Great Inhalant" (For a Remedy for Catarrh, &c) ..	J. A. Ritter	5,170	Mar. 29	38	1370
"Roemer's Asthma Remedy"	G. A. Roemer	5,448	Dec. 20	41	1276
"Rousseau's Specific." (For a Liniment)	A. E. Rousseau	5,319	Aug. 2	40	450
"Russell's Chocolate Icing"	J. Russell	5,441	Dec. 13	41	1168
"Safe Arsenic Complexion Wafers"	Israel Bidaman	5,213	May 17	39	712
"Sanitary Soap"	B. Hill	5,203	May 3	39	472
"Sayre's Salicylic Acid Troches"	W. H. Sayre	5,389	Oct. 25	41	358
"Sayre's Salicylic Acid Troches"	W. H. Sayre	5,390	Oct. 25	41	358
"Schlossbrunn." (For Natural Mineral Waters and Salt)	Eisner & Mendelson Company	5,380	Oct. 25	41	358
"Schmidt's German Herb Tea"	Schmidt Brothers	5,335	Aug. 30	40	922
"Schroeder's Cocktail Bitters"	Pearce, Hurt & Co	5,386	Oct. 25	41	358
"Seal Finish." (For Cloths)	T. Illingworth	5,317	Aug. 2	40	450
"Seltz's Rheumatic and Gout Remedy"	F. V. Seltz	5,296	July 12	40	122
"Seminal Resolvent"	E. F. Olds	5,208	May 10	39	592
"Side Lift." (For Lamps and Lanterns)	C. T. Ham Manufacturing Company	5,206	May 10	39	592
"Silver Cleaner." (for a Compound)	F. & J. C. Latus	5,145	Mar. 8	38	1020
"Silver Cream" (For Cleaning and Polishing Silver)	J. A. Wright	5,257	June 14	39	1206
"6 $\frac{1}{2}$ " (For Hats)	Thomas & Courter	5,187	Apr. 12	39	124
"Sizerville Magnetic Mineral Water"	P. H. Shumway	5,341	Sept. 6	40	1034
"Smith's All-Healing Salve"	R. Smith	5,115	Feb. 15	38	664
"Smith's Balm of Gilead." (For a Catarrh Cure)	J. H. Smith	5,232	May 31	39	964
"Smith's Chill Syrup"	G. E. Smith	5,326	Aug. 23	40	814
"Solid Leather Counters, City Made." (for Boots and Shoes) ..	Bangs, Bard & Co.	5,078	Jan. 11	38	110
"Soyer's Perfect Sauce"	J. J. and F. R. Shryock, J. G. Carnahan, and E. L. Irvin.	5,285	July 5	40	2
"Sparkling Hoarhound Beer"	J. Tetley	5,342	Sept. 6	40	1034
"Speer's Pure Port Wine"	J. S. Speer	5,139	Mar. 1	38	902
"Sprudel." (For Natural Mineral Waters and Salt)	Eisner & Mendelson Company	5,379	Oct. 25	41	358
"St. Nicholas Soap"	N. K. Fairbank & Co.	5,198	Apr. 26	39	366
"Stamets' Lung Balsam."	W. B. Stamets	5,277	June 28	39	1430
"Standard Nerve Food"	H. C. Beach	5,154	Mar. 15	38	1134
"Star of the Kitchen." (For Soap)	Newell & Bro.	5,414	Nov. 15	41	700
"Steele's Little Bile Pills"	B. C. Steele	5,195	Apr. 19	39	248
"Sticta Pulm." (For Throat Tablets)	F. H. Pamphilon	5,409	Nov. 8	41	582
"Sure Cure for Blood Diseases"	Seminole Blood Purifier Company	5,248	June 7	39	1088
"Sure Cure for Hog Cholera"	A. C. Bishop	5,320	Aug. 16	40	698
"Sweetwater Valley Roller Process." (For Flour)	Sweetwater Mill Company	5,190	Apr. 12	39	124
"Syrup of Lemons"	H. Mozley	5,351	Sept. 27	40	1344
"T. M." (Blacking for Boots and Shoes)	F. Fournier & Knopf	5,405	Nov. 8	41	582
"T. M." (For Blacking for Boots and Shoes)	F. Fournier & Knopf	5,406	Nov. 8	41	582
"T. M." (For Blacking for Boots and Shoes)	F. Fournier & Knopf	5,407	Nov. 8	41	582
"Tarrant's Exquisite Perfumes. Wild Rose. Special."	Tarrant & Company	5,301	July 19	40	250
"Taylor's Improved Sarsaparilla Root Beer Extract"	W. S. Taylor	5,140	Mar. 1	38	902
"Tettenborn's Household Store" (for Household Goods)	F. Tettenborn	5,286	July 5	40	2
"The Best." (For Confectionery)	P. Wunderle	5,371	Oct. 11	41	128
"The Boss Sticky Fly Paper"	H. Robinson	5,369	Oct. 11	41	128

Alphabetical list of labels—Continued.

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"The Celebrated California Liniment"	P. Heiby	5,269	June 28	39	1430
"The Celebrated Gettysburg Cigar"	H. J. Brinkerhoff, Jr., & Co	5,184	Apr. 12	39	124
"The Fernanzo." (For a Cleaning and Polishing Preparation).	M. D. Fernanzo	5,443	Dec. 20	41	1276
"The Finest in the World, Bohemian Soap of Joseph Cervinka."	J. Cervinka	5,201	May 3	39	472
"The Frankford." (for Cotton Goods)	F. S. Pinkus	5,159	Mar. 15	38	1134
"The Great American Spavin Cure for Horses"	M. Sulzbacher	5,118	Feb. 15	38	664
"The Hatch "Rochester Counter." (for Boots and Shoes)	J. L. Hatch	5,165	Mar. 22	38	1252
"The Improved "Deep Hub" Bar Button." (For Pantaloon Buttons.)	Toms & Reed	5,168	Mar. 22	38	1252
"The Improved Furniture Polish"	O. Pagan	5,452	Dec. 27	41	1394
"The Indian Doctor's Chill Pills"	J. T. Lowrey	5,146	Mar. 8	38	1020
"The Ladies Brand." (For Silk Goods)	J. Wanamaker	5,338	Aug. 30	40	922
"The London Harness Agency." (For Saddlery, Harness Gear, &c.)	E. M. Earle	5,226	May 31	39	964
"The Mother's Friend." (for a Medicine)	Bradfield Regulator Company	5,083	Jan. 11	38	110
"The New Mexican Rheumatic Cure"	E. W. Murray	5,447	Dec. 20	41	1276
"The New Self Opening Square Paper Bag"	New York Paper Bag Machine and Manufacturing Company.	5,183	Apr. 12	39	124
"The Peerless Tonic and Blood Purifier"	J. Eaton & Co	5,202	May 3	39	472
"The Prize Overcoat"	A. Levy	5,293	July 12	40	122
"The Prize Suit"	A. Levy	5,294	July 12	40	122
"Thompson's Bromine and Arsenic Springs Water"	L. W. Burwell	5,176	Apr. 5	39	2
"Three Great Combination Hair Remedies, viz.: Hair Beautifier No. 1 Hair Restorer No. 2 Hair Dressing No. 3."	M. A. Stevenson	5,128	Feb. 22	38	786
"Throp's Rheumatic Elixir"	F. W. and S. U. Throp	5,210	May 10	39	592
"Tom, Dick & Harry." (for Family Soap)	N. K. Fairbank & Company	5,100	Jan. 25	38	334
"Townsend's Corn Salve"	G. E. Townsend	5,423	Nov. 22	41	820
"Triangular Tubular Lamp"	C. T. Ham Manufacturing Company.	5,080	Jan. 11	38	110
"Triple Bromides"	W. R. Warner	5,450	Dec. 20	41	1276
"Triple Distilled Cologne"	H. Tappan	5,082	Jan. 11	38	110
"Truesdale's Medicated Magnetic Battery"	J. T. Woodhull	5,089	Jan. 18	38	234
"Tulip Root, a Special Cure for Rheumatism"	E. R. M. Birdsall	5,451	Dec. 27	41	1394
"United Tinsmiths of America"	H. Bloch	5,092	Jan. 25	38	334
"Universal Piano Polish"	W. B. Loss	5,295	July 12	40	122
"Van Lieben's Antiseptic Skin Soap"	M. E. Hardwicke	5,314	Aug. 2	40	450
"Van's Tooth Powder"	F. E. Van Haren	5,129	Feb. 22	38	786
"Veterinary Arnica Jelly"	F. Andrews	5,087	Jan. 18	38	234
"Veterinary Hop Ointment"	Hop Pill Manufacturing Company	5,315	Aug. 2	40	450
"Veterinary Hop Ointment"	Hop Pill Manufacturing Company	5,416	Nov. 15	41	700
"W. F. Tabor's French Cream Shampoo"	W. F. Tabor	5,327	Aug. 23	40	814
"W. N. Le Page's Improved Liquid Glue"	Le Page's Liquid Glue and Cement Company.	5,231	May 31	39	964
"Warren's Toilet Ointment"	J. T. Warren	5,152	Mar. 8	38	1020
"Water proof Green Ink"	C. M. Higgins	5,180	Apr. 12	39	124
"Waterproof Writing Ink"	C. M. Higgins	5,177	Apr. 5	39	2
"Webster's Lung Balsam"	B. F. Riddell	5,224	May 24	39	836
"Weller's Little Liver Capsules"	J. Weller	5,222	May 24	39	836
"What to do in case of supposed Drowning. Alcoholism. How to apply a Roller Bandage to a Limb and how to close a Fresh Wound." (for an Accident Case.)	Seabury & Johnson	5,098	Jan. 25	38	334
"What to Do till the Doctor Comes." (for an Accident Case.)	Seabury & Johnson	5,099	Jan. 25	38	334
"White Blacking or English Cream Dressing" (For Harness and Leather.)	H. E. Branch	5,348	Sept. 20	40	1246
"White Oak Liniment"	W. E. Dement	5,403	Nov. 8	41	582
"Wholesome Soap"	L. Kemp & Sons	5,095	Jan. 25	38	334
"Wiesel's Obstetric Cones"	J. M. Wiesel	5,116	Feb. 15	38	664
"Wilde's Herb and Elderberry Wine"	F. W. Wilde	5,162	Mar. 15	38	1134
"William Armstrong Oliver, Purveyor to the Table"	W. A. Oliver	5,318	Aug. 2	40	450
"Wilson's Hair Tonic"	W. E. Dement	5,404	Nov. 8	41	582
"Wire Buckle Suspenders"	Silvermann Bros. & Co.	5,336	Aug. 30	40	922
"Witch-Hazel Cream." (For a Preparation for the Skin)	W. S. Haswell	5,121	Feb. 22	38	786
"Witch Hazel Soap"	W. S. Haswell	5,381	Oct. 25	41	358
"Wood's Dog Remedy"	C. Clarke	5,090	Jan. 18	38	234
"Workingmen's Pants"	H. Herzog & Bro.	5,363	Oct. 11	41	128
"Wyoming Factory Filled"	W. C. Gouinlock & Co	5,432	Dec. 13	41	1168

DISCLAIMERS.

Invention.	Patentee.	No. of patent.	Date of patent.	Disclaimer filed.	Official Gazette.	
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Die for forming fifth-wheel blanks.....	Darius Wilcox.....	221,886	Nov. 18, 1879	Feb. 6, 1887	38	664
Doors for stove-ovens.....	Giles F. Filley.....	246,606	Sept. 6, 1881	Apr. 7, 1887	39	248
Hydrants and fire-plugs.....	Henry E. Earle.....	353,739	Dec. 7, 1886	Aug. 19, 1887	40	814
Ice-machine.....	Francis V. De Coppet.....	148,675	Mar. 17, 1874	June 23, 1887	40	122
Ironing-machine.....	Lewis N. Watson.....	153,769	Dec. 7, 1886	Nov. 2, 1887	41	582
Manufacture of rosaline colors.....	John Holliday.....	250,247	Nov. 29, 1881	Feb. 19, 1887	38	902
Plates and dishes.....	Albert A. Low.....	226,665	Apr. 20, 1880	Apr. 27, 1887	39	592
Temporary binders.....	James S. Shannon.....	217,907	July 29, 1879	Feb. 5, 1887	38	664
Upsetting and shaping metal bars.....	George H. Sellers.....	372,571	Nov. 1, 1887	Dec. 9, 1887	41	1276

EXTENSION.

Fluting machine. H. H. Cole. (Reissue.) No. 4,349. Extended Aug. 9, 1887. Vol. 40, page 814.

House documents

Bd.: [396.] 1887/88, Doc. 5 = Congress 50, Sess. 1

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